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APPENDIX I

DATA VALIDATION REVIEWS

PART 1

2018-2019

PES reviewed the analytical reports to evaluate the laboratory's performance in meeting the quality control criteria outlined in the 2017 EPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, and 2017 EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA, 2017a and 2017b). PES reviewed completeness, sample collection and preservation, holding times, initial and continuing calibration, method blank results, trip blank results, field and equipment blank results, field and laboratory duplicate analyses, surrogate recoveries, laboratory control samples, matrix spike/matrix spike duplicates ("MS/MSD"), and compound identification and quantitation limits. PES assigned data qualifiers, as needed.

Following is a summary of the reasons that some of the groundwater data were qualified:

- All laboratory qualifiers indicating detections between the laboratory method detection limits ("MDLs") and the associated RDLs (the laboratory's practical quantitation limits), which the laboratory indicated with a J qualifier, were accepted;

- Isolated nitrate results were qualified as estimated (UJ/J) due to holding time exceedances (L1146788, L1237219, L1314614, L1361280). Non-detected nitrate results for SDG L1361280 were rejected (R) due to gross holding time exceedance;

- Some detected VOCs were qualified as estimated (J), estimated and likely biased high (J+), or estimated and likely biased low (J-) due to continuing calibration verification ("CCV") issues. Prior to the fourth quarter of 2020, no bias was assigned to CCV qualifiers by the laboratory or PES;

- Some non-detected VOCs were qualified as estimated (UJ) due to CCV issues;

- Some low-level detections of VOCs, GRO, or geochemical parameters were qualified as not detected (U) due to detections of those VOCs, GRO, or geochemical parameters in the associated method blanks;

- Some low-level detections of VOCs, especially acetone, or GRO were qualified as non-detected (U) due to detections of those VOCs or GRO in the associated trip blanks;

- When the trip blank or equipment blank had detections of acetone above the RDL, associated low level sample detections above the RDL were qualified as estimated and likely biased high (J+) due to various blank detections;

- Some low-level detections of VOCs, GRO, or geochemical parameters were qualified as not detected (U) due to associated equipment blank contamination;

- Some methane detections were qualified as estimated and likely biased high (J+) due to detections in the associated equipment blank;

- VOCs and geochemical parameters from field duplicate pairs were qualified as estimated or estimated and likely biased high (UJ/J/J+) when they exceeded a relative percent difference (RPD) of 30% ($\leq$ 1X RDL for groundwater results $<$ 5X the RDL);

- VOC results with surrogate recoveries above or below the laboratory QC criteria were qualified as estimated (UJ/J) or estimated and likely biased low (J-);

- Some non-detected VOC results were qualified as estimated (UJ) due to laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) percent recoveries (% Rs) below laboratory acceptance criteria;

- Some VOC results detected below the RDL were qualified as estimated and not detected (UJ) due to LCS/LCSD % Rs below laboratory acceptance criteria;

- Some detected VOC results were qualified as estimated with a potential low bias (J-) due to LCS/LCSD % Rs below laboratory acceptance criteria;

- Some detected VOC results were qualified as estimated with a potential high bias (J+) due to LCS/LCSD % Rs above laboratory acceptance criteria;

- PCE in sample MW-935-071620 (field duplicate of MW108-071620, L1240639) was detected above the upper limit of the calibration range of the laboratory instrument and estimated (J) because the result exceeded the upper limit of the calibration range;

- Sulfate in sample BB-8-111720 (L1288012) was reported twice, at a 1X and at a 5X dilution factor. The sulfate result at the 1X dilution exceeded the upper limit of the calibration range of the laboratory instrument and was rejected (R) in favor of the 5X sulfate result;

- Non-petroleum organics (such as CVOCs) eluting within the GRO range contributed to GRO results and associated GRO results are likely biased high (J+). An additional Project level qualifier (Z) was assigned to GRO results when the laboratory reviewed sample chromatograms against the GRO standard chromatograms and assigned "no discernible petroleum pattern" to GRO results; and

- Isolated iron and manganese results failed laboratory method required serial dilution tests and were qualified as estimated (J) (L1234588).

Following is a summary of the reasons that some of the soil data were qualified:

- Naphthalene was analyzed twice for sample MW-323-70 (L1145065). The initial naphthalene result was rejected (R) due to laboratory identified contamination. The reanalyzed, non-detect naphthalene result for MW-232-70 was qualified as estimated (UJ) due to holding time exceedance;

- Some detected VOCs were qualified as estimated (J) or estimated and likely biased low (J-) due to CCV issues. Prior to 2021, no bias was assigned to CCV qualifiers by the laboratory or PES;

- Some non-detected VOCs were qualified as estimated (UJ) due to CCV issues;

- Some low-level detections of VOCs, especially acetone, were qualified as not detected (U) due to detections of those VOCs in the associated method or trip blanks;

- VOCs from field duplicate pairs were qualified as estimated (UJ/J) when they exceeded an RPD of 30% (or for results <5X RDL the absolute difference <1X RDL); and

- Some VOC results were qualified as estimated (UJ/J) due to laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) percent recoveries (% Rs) outside laboratory acceptance criteria.

Following is a summary of the reasons that some of the soil vapor data were qualified:

- Some field duplicate VOC results were not comparable, with RPDs greater than 30% (for results < 5X RDL the absolute difference < 1X RDL) and were qualified as estimated (UJ/J);

- Some detected VOCs were qualified as estimated (J) due to associated surrogate recoveries above the control limit criteria; and

- Isolated ethanol detections (L1315322, L1353415) exceeded the laboratory upper calibration range and were qualified as estimated (J) or estimated and likely biased high (J+).

MEMORANDUM

TO: Project File **DATE:** October 25, 2018

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.304

TASK: August and September, 2018 – Soil Samples

LAB: Pace Sample Delivery Groups (SDGs): L1022679, L1024338, L1025469, L1026432, and L1029197

Thirty-six (36) soil samples including one field duplicate, and four (4) trip blanks were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington. Samples were collected on August 31, September 4-7, 10-14, and 18-20, 2018. The samples were shipped and delivered to Pace Analytical (formerly ESC Lab Sciences (ESC)) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total Solids by Standard Methods 2540 G-2011.

Associated soil sample data are reported in five Pace SDGs (L1022679, L1024338, L1025469, L1026432, and L1029197). For the associated soil vapor samples refer to data validation review on Pace SDG L1030304. The quality assurance review of the sample data are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace Analytical (Pace) control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory’s performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested with the following discussion:

- Review of associated chain of custodies show that multiple soil samples were collected and placed on hold by PES. No action was taken other than to note this.

- SDG L1029197: Associated chain of custody form is difficult to read due to copy quality. Sample identifications and dates of collection appear to be listed correctly in the laboratory report.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for soils from the date of collection. All holding time criteria were met.

Total Solids by SM 2540 G 2011:
Samples were analyzed within the USEPA recommended holding time of seven days for total solids with the following exceptions:

- SDGs L1022679, L1024338, L1025469, L1026432, and L1029197: Multiple soil samples were analyzed slightly outside of the recommended hold. Sample results are not significantly impacted. No action is taken other than to note this.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDG L1024338 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for trans-1,2-dichloroethene, n-hexane, and vinyl acetate associated with analytical batch WG1164600 (analyzed on September 12, 2018). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1024338 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for bromomethane, trans-1,4-dichloro-2-butene, iodomethane, and vinyl acetate associated with analytical batch WG1164809 (analyzed on September 13, 2018). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated trip blank results with laboratory qualified (J0) results are estimated and qualified (UJ).**

- SDG L1025469 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for styrene associated with analytical batch WG1168763 (analyzed on September 20, 2018). The compound is qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated samples IW-24C-66 and IW-24C-75 results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1025469 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for 1,2-dibromo-3-chloropropane, trans-1,2-dichloroethene, trans-1,3-dichloropropene, trans-1,4-dichloro-2-butene, 2,2-dichloropropane, 1,1,1,2-tetrachloroethane, and vinyl acetate associated with analytical batch WG1168529 (analyzed on September 20, 2018). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1026432 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for 1,2-dibromo-3-chloropropane, trans-1,4-dichloro-2-butene, and vinyl acetate associated with analytical batch WG1169827 (analyzed on September 21, 2018). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1029197 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for n-hexane and vinyl acetate associated with analytical batch WG1173458 (analyzed on September 29, 2018). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reported detection limits (RDLs) with the following exceptions:

- SDG L1022679 - Analytical batch WG1161708: Low levels of naphthalene and 1,2,4-trimethylbenzene are detected in the method blank associated with the trip blank. No action was taken since naphthalene and 1,2,4-trimethylbenzene are not detected in the associated trip blank.

- SDG L1024338 - Analytical batch WG1164600: A low level of n-hexane was detected in the method blank associated with six samples (IW-23C-42, IW-54B-8, IW-54B-13, IW-54B-21, IW-54B-33, and IW-24C-48). No action was taken since n-hexane is not detected in the associated samples.

- SDG L1024338 - Analytical batch WG1166945: Low levels of carbon disulfide, n-hexane, methylene chloride, styrene, and 1,2,3-trichlorobenzene are detected in the method blank associated with sample IW-24C-55. **The carbon disulfide result in the sample IW-24C-55 is qualified as not detected (U) due to method blank contamination.** For the remaining compounds no action was necessary as these were not detected in the associated sample.

- SDG L1024338 - Analytical batch WG1164809: A low level of hexachloro-1,3-butadiene was detected in the method blank associated with the trip blank. No action was taken since hexachloro-1,3-butadiene is not detected in the associated trip blank.

- SDG L1025469 - Analytical batch WG1168763: Low levels of iodomethane and methylene chloride are detected in the method blank associated with samples IW-24C-66 and IW-24C-75. **The methylene chloride results in the sample IW-24C-66 and IW-24C-75 are qualified as not detected (U) due to method blank contamination.** For the remaining compound no action was necessary as it was not detected in the associated samples.

- SDG L1025469 - Analytical batch WG1168529: Low levels of methylene chloride and trichlorofluoromethane are detected in the method blank associated with samples IW-14D-45, IW-14D-65, IW-14D-75, IW-14D-95, and IW-15D-54. **The methylene chloride results in samples IW-14D-45, IW-14D-65, IW-14D-75, IW-14D-95, and IW-15D-54 are qualified as not detected (U) due to method blank contamination.** For the remaining compound no action was necessary as these are not detected in the associated samples.

- SDG L1026432 - Analytical batch WG1167535: Low levels of hexachloro-1,3-butadiene and 1,2,3-trichlorobenzene are detected in the method blank associated with the trip blank. No action was taken since these compounds are not detected in the associated trip blank.

Total Solids by SM 2540 G 2011:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

Trip Blank Results

USEPA Method 8260C:
Four trip blanks were collected and analyzed. The target analytes were not detected in the trip blank at or above the RDLs with the following exceptions:

- SDG L1022679 - Analytical batch WG1161708: A low level of acetone is detected in the trip blank. A low level of acetone is detected in associated sample IW-22C-62. **The acetone detection in sample IW-22C-62 is qualified as not detected (U) due to trip blank contamination.**

- SDG L1024338 - Analytical batch WG1164809: A low level of acetone is detected in the trip blank. Low levels of acetone are detected in associated samples IW-23C-42 and IW-54B-13. **The acetone detections in samples IW-23C-42 and IW-54B-13 are qualified as not detected (U) due to trip blank contamination.**

- SDG L1026432 - Analytical batch WG1167535: A low level of acetone is detected in the trip blank (the trip blank is identified as Blank-091418). Low levels of acetone are detected in associated samples IW-55B-39 and IW-55B-61. **Acetone was detected above the RDL in sample IW-55B-39 qualified as estimated with high bias (J+) due to trip blank contamination. Acetone was detected below the RDL in sample IW-55B-61 and is qualified as not detected (U) due to trip blank contamination.**

Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate sample pairs are as follows:

- SDG L1026432: Samples IW-12D-42 and B-928-42

Field duplicate pairs were submitted and analyzed for VOCs and percent solids. Percent solids and VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 2x RDL for soil results <5X the RDL) for the field duplicates.

Laboratory Duplicate Analyses

USEPA Method 8260C:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

Total Solids by SM 2540 G 2011:
Laboratory duplicate sample analyses were performed on client and/or on non-client samples within the analytical batches. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

Laboratory Control Samples

USEPA Method 8260C:

Laboratory control sample and laboratory control sample duplicate (LCS/LCSD) were analyzed by USEPA Method 8260C method. In some cases only LCS data are provided and no measure of precision is provided. No action is taken other than to note that a sufficient measure of precision was provided by the laboratory. The LCS or LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils with the following discussions and exceptions:

- SDG L1022679 - Analytical batch WG1163811: LCS or LCSD recoveries for bromodichloromethane and carbon tetrachloride are slightly above control limit criteria and laboratory qualified (J4). These compounds are not detected in the associated samples. **Bromodichloromethane and carbon tetrachloride are considered not detected (U) in the associated samples due to the elevated LCS or LCSD recoveries.**

- SDG L1022679 - Analytical batch WG1163811: LCS/LCSD recoveries for vinyl acetate are within control limits but recovered wide with an elevated RPD and laboratory qualified (J3). No action is taken other than to note that recoveries are within control limit criteria.

- SDG L1022679 - Analytical batch WG1163971: Four compounds were reanalyzed in both samples at a dilution (42.4X and 40X) a few hours after the initial run. An LCSD is not provided with the quality control however an adequate measure of precision for these compounds is provided with the 1X dilution associated with analytical batch WG1163811.

- SDG L1024338 - Analytical batch WG1166945: LCS recoveries for 1,2-dibromoethane and 1,4-dichlorobenzene are recovered slightly below criteria and laboratory qualified (J4). **Sample IW-24C-55 results for 1,2-dibromoethane (ethylene dibromide) and 1,4-dichlorobenzene are estimated and qualified (UJ) due to low LCS recoveries.** Refer to matrix spike results for precision data.

- SDG L1024338 - Analytical batch WG1166945: LCS recoveries for n-hexane, 1,1,2,2-tetrachloroethane, and 1,1,1-trichloroethane are recovered above criteria and laboratory qualified (J4). No action was taken since these compounds are not detected in sample IW-24C-55. **These compounds are considered not detected (U) in sample IW-24C-55 due to the elevated LCS recoveries.** Refer to matrix spike results for precision data.

- SDG L1024338 - Analytical batch WG1167356: LCS recovery for iodomethane is recovered slightly below criteria and laboratory qualified (J4). **Sample IW-24C-55 result for iodomethane is estimated and qualified (UJ) due to a low LCS recovery.**

- SDG L1025469 - Analytical batch WG1168529: LCS recoveries for trans-1,3-dichloropropene, p-isopropyltoluene, and 1,1,1,2-tetrachloroethane are recovered slightly below criteria. **Associated sample results for trans-1,3-dichloropropene, p-isopropyltoluene, and 1,1,1,2-tetrachloroethane are estimated and qualified (J/UJ) due to low LCS recoveries.**

- SDG L1025469 - Analytical batch WG1168808: LCS recovery for styrene is recovered slightly below criteria and laboratory qualified (J4). **Associated sample results for styrene are estimated and qualified (J/UJ) due to low LCS recovery.**

- SDG L1025469 - Analytical batch WG1168808: LCS recovery for n-hexane is recovered above criteria and laboratory qualified (J4). This compound is not detected in the associated samples. **Hexane is considered not detected (U) in associated samples due to the elevated LCS recoveries.**

- SDG L1025469 - Analytical batch WG1168763: LCS recoveries for 1,4-dichlorobenzene, and styrene are recovered slightly below criteria and laboratory qualified (J4). **Associated sample results for 1,4-dichlorobenzene and styrene are estimated and qualified (J/UJ) due to low LCS recoveries.**

- SDG L1025469 - Analytical batch WG1168763: LCS recoveries for cis-1,3-dichloropropene, and 1,1,2,2-tetrachloroethane are above laboratory criteria. These compounds are not detected in the associated samples. **These compounds are considered not detected (U) in associated samples due to the elevated LCS recoveries.**

- SDG L1026432 - Analytical batch WG1169827: LCS recovery for iodomethane is above laboratory criteria. This compound is not detected in the associated samples. **Iodomethane is considered not detected (U) in associated samples due to the elevated LCS recoveries.**

- SDG L1029197 - Analytical batch WG1173458: LCS recovery for 1,2-dichloroethane is above laboratory criteria and laboratory qualified (J4). This compound is not detected in the associated samples. **1,2-Dichloroethane is considered not detected (U) in associated samples due to the elevated LCS recoveries.**

- SDG L1029197 - Analytical batch WG1173458: LCS recovery for vinyl acetate is below laboratory criteria and laboratory qualified (J4). **Associated sample results for vinyl acetate are estimated and qualified (J/UJ) due to low LCS recovery.**

Total Solids by SM 2540 G 2011:
The LCS %Rs for total solids are within the laboratory control criteria for soils.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on a non-client sample. In cases where MS/MSDs were not performed refer to LCS/LCSDs for accuracy and precision data. MS/MSD % Rs and RPDs are acceptable with the following exceptions:

- SDG L1024338 - Analytical batch WG1164600: Spike analyses were performed on a client sample IW-24C-48. Acetone is recovered within control limits but recovered wide with an elevated RPD and laboratory qualified (J3). No action was taken on this basis since recoveries are within. MS/MSD recoveries for cis-1,2-dichloroethene are not reported since the sample amount was far greater (>5X) than the spike amount. No action was taken other than to note this. MS/MSD recoveries for vinyl chloride are recovered low and laboratory qualified (J6). **Sample IW-24C-48 vinyl chloride result is estimated and qualified with low bias (J-) due to low spike recoveries.**

- SDG L1025469 - Analytical batch WG1168763: Soil MS/MSDs associated with the samples were performed on a non-client sample within the analytical batch. MS/MSD compounds for vinyl chloride and vinyl acetate are recovered low and laboratory qualified (J6). No action was taken since the spike was performed on a non-client sample. Refer to associated LCS results for accuracy data.

- SDG L1026432 - Analytical batch WG1169827: Spike analyses were performed on client sample IW-12D-60. MS/MSD recoveries for tetrachloroethene are not reported since the sample amount was far greater (>5X) than the spike amount. No action was taken other than to note this.

- SDG L1029197 - Analytical batch WG1173458: Soil MS/MSDs associated with the samples were performed on a non-client sample within the analytical batch. Multiple MS/MSD compounds on one of the spikes are recovered within control limits but recovered wide with elevated RPDs and are laboratory qualified (J3). Several MS/MSD recoveries were recovered less than 10% and laboratory qualified (J6). No action was taken other than to note that the spike was performed on a non-client sample. Refer to the LCS results for accuracy data.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory reports with the following discussion:

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered into the EDDs. In some cases different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications. Additional information was requested from the laboratory to cross reference the EDD versus final laboratory data.

Quantitation Limits

The RDLs used for this sample group are acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes. PACE sample narrative notes indicate that for multiple soil samples the target compounds were too high to run the samples at a lower dilution. In some cases diluted target analytes are non-detects. No action was taken other than to note this.

Detections between the method detection limit (MDL) and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.7		1	09/10/2018 13:20	WG1163747

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0193	U	J	0.0158	0.0289	1.07	09/10/2018 12:18	WG1163811
Acrylonitrile	U			0.00219	0.0144	1.07	09/10/2018 12:18	WG1163811
Benzene	U			0.000462	0.00115	1.07	09/10/2018 12:18	WG1163811
Bromobenzene	U			0.00121	0.0144	1.07	09/10/2018 12:18	WG1163811
Bromodichloromethane	U		J4	0.000910	0.00289	1.07	09/10/2018 12:18	WG1163811
Bromochloromethane	U			0.00131	0.00577	1.07	09/10/2018 12:18	WG1163811
Bromoform	U			0.00691	0.0289	1.07	09/10/2018 12:18	WG1163811
Bromomethane	U			0.00427	0.0144	1.07	09/10/2018 12:18	WG1163811
n-Butylbenzene	U			0.00443	0.0144	1.07	09/10/2018 12:18	WG1163811
sec-Butylbenzene	U			0.00292	0.0144	1.07	09/10/2018 12:18	WG1163811
tert-Butylbenzene	U			0.00179	0.00577	1.07	09/10/2018 12:18	WG1163811
Carbon disulfide	U			0.00468	0.0144	1.07	09/10/2018 12:18	WG1163811
Carbon tetrachloride	U		J4	0.00125	0.00577	1.07	09/10/2018 12:18	WG1163811
Chlorobenzene	U			0.000661	0.00289	1.07	09/10/2018 12:18	WG1163811
Chlorodibromomethane	U			0.000520	0.00289	1.07	09/10/2018 12:18	WG1163811
Chloroethane	U			0.00125	0.00577	1.07	09/10/2018 12:18	WG1163811
Chloroform	U			0.000479	0.00289	1.07	09/10/2018 12:18	WG1163811
Chloromethane	U			0.00161	0.0144	1.07	09/10/2018 12:18	WG1163811
2-Chlorotoluene	U			0.00106	0.00289	1.07	09/10/2018 12:18	WG1163811
4-Chlorotoluene	0.00193	J	J	0.00131	0.00577	1.07	09/10/2018 12:18	WG1163811
1,2-Dibromo-3-Chloropropane	U			0.00589	0.0289	1.07	09/10/2018 12:18	WG1163811
1,2-Dibromoethane	U			0.000606	0.00289	1.07	09/10/2018 12:18	WG1163811
Dibromomethane	U			0.00115	0.00577	1.07	09/10/2018 12:18	WG1163811
1,2-Dichlorobenzene	U			0.00167	0.00577	1.07	09/10/2018 12:18	WG1163811
1,3-Dichlorobenzene	U			0.00196	0.00577	1.07	09/10/2018 12:18	WG1163811
1,4-Dichlorobenzene	U			0.00228	0.00577	1.07	09/10/2018 12:18	WG1163811
Dichlorodifluoromethane	U			0.000944	0.00289	1.07	09/10/2018 12:18	WG1163811
1,1-Dichloroethane	U			0.000664	0.00289	1.07	09/10/2018 12:18	WG1163811
1,2-Dichloroethane	U			0.000548	0.00289	1.07	09/10/2018 12:18	WG1163811
1,1-Dichloroethene	0.00263	J	J	0.000577	0.00289	1.07	09/10/2018 12:18	WG1163811
cis-1,2-Dichloroethene	0.305			0.000796	0.00289	1.07	09/10/2018 12:18	WG1163811
trans-1,2-Dichloroethene	U			0.00165	0.00577	1.07	09/10/2018 12:18	WG1163811
1,2-Dichloropropane	U			0.0581	0.229	42.4	09/10/2018 17:39	WG1163971
1,1-Dichloropropene	U			0.000808	0.00289	1.07	09/10/2018 12:18	WG1163811
1,3-Dichloropropane	U			0.00202	0.00577	1.07	09/10/2018 12:18	WG1163811
cis-1,3-Dichloropropene	U			0.000782	0.00289	1.07	09/10/2018 12:18	WG1163811
trans-1,3-Dichloropropene	U			0.00177	0.00577	1.07	09/10/2018 12:18	WG1163811
trans-1,4-Dichloro-2-butene	U			0.00162	0.00577	1.07	09/10/2018 12:18	WG1163811
2,2-Dichloropropane	U			0.000915	0.00289	1.07	09/10/2018 12:18	WG1163811
Di-isopropyl ether	U			0.000404	0.00115	1.07	09/10/2018 12:18	WG1163811
Ethylbenzene	0.00123	J	J	0.000612	0.00289	1.07	09/10/2018 12:18	WG1163811
Hexachloro-1,3-butadiene	U			0.0147	0.0289	1.07	09/10/2018 12:18	WG1163811
2-Hexanone	U			0.0115	0.0289	1.07	09/10/2018 12:18	WG1163811
n-Hexane	U			0.00122	0.00577	1.07	09/10/2018 12:18	WG1163811
Iodomethane	U			0.00698	0.0144	1.07	09/10/2018 12:18	WG1163811
Isopropylbenzene	U			0.000996	0.00289	1.07	09/10/2018 12:18	WG1163811
p-Isopropyltoluene	U			0.00269	0.00577	1.07	09/10/2018 12:18	WG1163811
2-Butanone (MEK)	0.0342			0.0145	0.0289	1.07	09/10/2018 12:18	WG1163811
Methylene Chloride	U			0.00766	0.0289	1.07	09/10/2018 12:18	WG1163811
4-Methyl-2-pentanone (MIBK)	U			0.0115	0.0289	1.07	09/10/2018 12:18	WG1163811

JC 10/19/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000341	0.00115	1.07	09/10/2018 12:18	WG1163811
Naphthalene	U			0.00360	0.0144	1.07	09/10/2018 12:18	WG1163811
n-Propylbenzene	0.00179	J	J	0.00136	0.00577	1.07	09/10/2018 12:18	WG1163811
Styrene	U			0.00315	0.0144	1.07	09/10/2018 12:18	WG1163811
1,1,1,2-Tetrachloroethane	U			0.000577	0.00289	1.07	09/10/2018 12:18	WG1163811
1,1,2,2-Tetrachloroethane	U			0.000450	0.00289	1.07	09/10/2018 12:18	WG1163811
1,1,2-Trichlorotrifluoroethane	U			0.000779	0.00289	1.07	09/10/2018 12:18	WG1163811
Tetrachloroethene	14.5			0.0320	0.114	42.4	09/10/2018 17:39	WG1163971
Toluene	0.00954			0.00145	0.00577	1.07	09/10/2018 12:18	WG1163811
1,2,3-Trichlorobenzene	U			0.000722	0.00289	1.07	09/10/2018 12:18	WG1163811
1,2,4-Trichlorobenzene	U			0.00557	0.0144	1.07	09/10/2018 12:18	WG1163811
1,1,1-Trichloroethane	U			0.000317	0.00289	1.07	09/10/2018 12:18	WG1163811
1,1,2-Trichloroethane	U			0.00102	0.00289	1.07	09/10/2018 12:18	WG1163811
Trichloroethene	0.708			0.0183	0.0458	42.4	09/10/2018 17:39	WG1163971
Trichlorofluoromethane	U			0.000577	0.00289	1.07	09/10/2018 12:18	WG1163811
1,2,3-Trichloropropane	U			0.00589	0.0144	1.07	09/10/2018 12:18	WG1163811
1,2,4-Trimethylbenzene	0.0107			0.00134	0.00577	1.07	09/10/2018 12:18	WG1163811
1,2,3-Trimethylbenzene	0.00278	J	J	0.00133	0.00577	1.07	09/10/2018 12:18	WG1163811
1,3,5-Trimethylbenzene	0.00366	J	J	0.00125	0.00577	1.07	09/10/2018 12:18	WG1163811
Vinyl acetate	U		J3	0.00407	0.0144	1.07	09/10/2018 12:18	WG1163811
Vinyl chloride	U			0.000789	0.00289	1.07	09/10/2018 12:18	WG1163811
Xylenes, Total	U			0.219	0.297	42.4	09/10/2018 17:39	WG1163971
(S) Toluene-d8	*97.4*				*75.0-131*		*09/10/2018 12:18*	WG1163811
(S) Toluene-d8	*98.9*				*75.0-131*		*09/10/2018 17:39*	WG1163971
(S) Dibromofluoromethane	*93.0*				*65.0-129*		*09/10/2018 12:18*	WG1163811
(S) Dibromofluoromethane	*115*				*65.0-129*		*09/10/2018 17:39*	WG1163971
(S) 4-Bromofluorobenzene	*98.7*				*67.0-138*		*09/10/2018 12:18*	WG1163811
(S) 4-Bromofluorobenzene	*90.9*				*67.0-138*		*09/10/2018 17:39*	WG1163971

Sample Narrative:

L1022679-01 WG1163811, WG1163971: Not all compounds reportable from 1x dilution.

L1022679-01 WG1163811, WG1163971: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18

IW-22C-78
Collected date/time: 08/31/18 13:00

SAMPLE RESULTS - 02

L1022679

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.6		1	09/10/2018 13:20	WG1163747

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0166	0.0303	1	09/10/2018 12:37	WG1163811
Acrylonitrile	U		0.00230	0.0151	1	09/10/2018 12:37	WG1163811
Benzene	U		0.000484	0.00121	1	09/10/2018 12:37	WG1163811
Bromobenzene	U		0.00127	0.0151	1	09/10/2018 12:37	WG1163811
Bromodichloromethane	U	J4	0.000954	0.00303	1	09/10/2018 12:37	WG1163811
Bromochloromethane	U		0.00137	0.00606	1	09/10/2018 12:37	WG1163811
Bromoform	U		0.00724	0.0303	1	09/10/2018 12:37	WG1163811
Bromomethane	U		0.00448	0.0151	1	09/10/2018 12:37	WG1163811
n-Butylbenzene	U		0.00465	0.0151	1	09/10/2018 12:37	WG1163811
sec-Butylbenzene	U		0.00306	0.0151	1	09/10/2018 12:37	WG1163811
tert-Butylbenzene	U		0.00188	0.00606	1	09/10/2018 12:37	WG1163811
Carbon disulfide	0.00695 J	J	0.00492	0.0151	1	09/10/2018 12:37	WG1163811
Carbon tetrachloride	U	J4	0.00131	0.00606	1	09/10/2018 12:37	WG1163811
Chlorobenzene	U		0.000694	0.00303	1	09/10/2018 12:37	WG1163811
Chlorodibromomethane	U		0.000545	0.00303	1	09/10/2018 12:37	WG1163811
Chloroethane	U		0.00131	0.00606	1	09/10/2018 12:37	WG1163811
Chloroform	U		0.000503	0.00303	1	09/10/2018 12:37	WG1163811
Chloromethane	U		0.00168	0.0151	1	09/10/2018 12:37	WG1163811
2-Chlorotoluene	U		0.00111	0.00303	1	09/10/2018 12:37	WG1163811
4-Chlorotoluene	U		0.00137	0.00606	1	09/10/2018 12:37	WG1163811
1,2-Dibromo-3-Chloropropane	U		0.00618	0.0303	1	09/10/2018 12:37	WG1163811
1,2-Dibromoethane	U		0.000636	0.00303	1	09/10/2018 12:37	WG1163811
Dibromomethane	U		0.00121	0.00606	1	09/10/2018 12:37	WG1163811
1,2-Dichlorobenzene	U		0.00176	0.00606	1	09/10/2018 12:37	WG1163811
1,3-Dichlorobenzene	U		0.00206	0.00606	1	09/10/2018 12:37	WG1163811
1,4-Dichlorobenzene	U		0.00239	0.00606	1	09/10/2018 12:37	WG1163811
Dichlorodifluoromethane	U		0.000991	0.00303	1	09/10/2018 12:37	WG1163811
1,1-Dichloroethane	U		0.000696	0.00303	1	09/10/2018 12:37	WG1163811
1,2-Dichloroethane	U		0.000575	0.00303	1	09/10/2018 12:37	WG1163811
1,1-Dichloroethene	0.00765		0.000606	0.00303	1	09/10/2018 12:37	WG1163811
cis-1,2-Dichloroethene	0.975		0.000836	0.00303	1	09/10/2018 12:37	WG1163811
trans-1,2-Dichloroethene	U		0.00173	0.00606	1	09/10/2018 12:37	WG1163811
1,2-Dichloropropane	U		0.0615	0.242	40	09/10/2018 17:58	WG1163971
1,1-Dichloropropene	U		0.000848	0.00303	1	09/10/2018 12:37	WG1163811
1,3-Dichloropropane	U		0.00212	0.00606	1	09/10/2018 12:37	WG1163811
cis-1,3-Dichloropropene	U		0.000821	0.00303	1	09/10/2018 12:37	WG1163811
trans-1,3-Dichloropropene	U		0.00185	0.00606	1	09/10/2018 12:37	WG1163811
trans-1,4-Dichloro-2-butene	U		0.00170	0.00606	1	09/10/2018 12:37	WG1163811
2,2-Dichloropropane	U		0.000961	0.00303	1	09/10/2018 12:37	WG1163811
Di-isopropyl ether	U		0.000424	0.00121	1	09/10/2018 12:37	WG1163811
Ethylbenzene	U		0.000642	0.00303	1	09/10/2018 12:37	WG1163811
Hexachloro-1,3-butadiene	U		0.0154	0.0303	1	09/10/2018 12:37	WG1163811
2-Hexanone	U		0.0121	0.0303	1	09/10/2018 12:37	WG1163811
n-Hexane	U		0.00128	0.00606	1	09/10/2018 12:37	WG1163811
Iodomethane	U		0.00733	0.0151	1	09/10/2018 12:37	WG1163811
Isopropylbenzene	U		0.00105	0.00303	1	09/10/2018 12:37	WG1163811
p-Isopropyltoluene	U		0.00282	0.00606	1	09/10/2018 12:37	WG1163811
2-Butanone (MEK)	0.0382		0.0151	0.0303	1	09/10/2018 12:37	WG1163811
Methylene Chloride	U		0.00804	0.0303	1	09/10/2018 12:37	WG1163811
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0303	1	09/10/2018 12:37	WG1163811

JC 10/19/18

IW-22C-78

Collected date/time: 08/31/18 13:00

SAMPLE RESULTS - 02

L1022679

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000357	0.00121	1	09/10/2018 12:37	WG1163811
Naphthalene	U		0.00378	0.0151	1	09/10/2018 12:37	WG1163811
n-Propylbenzene	U		0.00143	0.00606	1	09/10/2018 12:37	WG1163811
Styrene	U		0.00331	0.0151	1	09/10/2018 12:37	WG1163811
1,1,1,2-Tetrachloroethane	U		0.000606	0.00303	1	09/10/2018 12:37	WG1163811
1,1,2,2-Tetrachloroethane	U		0.000472	0.00303	1	09/10/2018 12:37	WG1163811
1,1,2-Trichlorotrifluoroethane	U		0.000818	0.00303	1	09/10/2018 12:37	WG1163811
Tetrachloroethene	16.6		0.0339	0.121	40	09/10/2018 17:58	WG1163971
Toluene	0.00182 J	J	0.00151	0.00606	1	09/10/2018 12:37	WG1163811
1,2,3-Trichlorobenzene	U		0.000757	0.00303	1	09/10/2018 12:37	WG1163811
1,2,4-Trichlorobenzene	U		0.00584	0.0151	1	09/10/2018 12:37	WG1163811
1,1,1-Trichloroethane	U		0.000333	0.00303	1	09/10/2018 12:37	WG1163811
1,1,2-Trichloroethane	U		0.00107	0.00303	1	09/10/2018 12:37	WG1163811
Trichloroethene	0.915		0.0194	0.0484	40	09/10/2018 17:58	WG1163971
Trichlorofluoromethane	U		0.000606	0.00303	1	09/10/2018 12:37	WG1163811
1,2,3-Trichloropropane	U		0.00618	0.0151	1	09/10/2018 12:37	WG1163811
1,2,4-Trimethylbenzene	0.00241 J	J	0.00141	0.00606	1	09/10/2018 12:37	WG1163811
1,2,3-Trimethylbenzene	U		0.00139	0.00606	1	09/10/2018 12:37	WG1163811
1,3,5-Trimethylbenzene	U		0.00131	0.00606	1	09/10/2018 12:37	WG1163811
Vinyl acetate	U	J3	0.00426	0.0151	1	09/10/2018 12:37	WG1163811
Vinyl chloride	0.00698		0.000827	0.00303	1	09/10/2018 12:37	WG1163811
Xylenes, Total	U		0.231	0.315	40	09/10/2018 17:58	WG1163971
(S) Toluene-d8	*79.8*			*75.0-131*		*09/10/2018 12:37*	WG1163811
(S) Toluene-d8	*96.7*			*75.0-131*		*09/10/2018 17:58*	WG1163971
(S) Dibromofluoromethane	*94.4*			*65.0-129*		*09/10/2018 12:37*	WG1163811
(S) Dibromofluoromethane	*117*			*65.0-129*		*09/10/2018 17:58*	WG1163971
(S) 4-Bromofluorobenzene	*90.9*			*67.0-138*		*09/10/2018 12:37*	WG1163811
(S) 4-Bromofluorobenzene	*86.6*			*67.0-138*		*09/10/2018 17:58*	WG1163971

Sample Narrative:

L1022679-02 WG1163811, WG1163971: Not all compounds reportable from 1x dilution.

L1022679-02 WG1163811, WG1163971: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18

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Collected date/time: 08/31/18 00:00

SAMPLE RESULTS - 03

L1022679

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.58	J	1.05	25.0	1	09/05/2018 16:43	WG1161708
Acrylonitrile	U		0.873	5.00	1	09/05/2018 16:43	WG1161708
Benzene	U		0.0896	0.500	1	09/05/2018 16:43	WG1161708
Bromobenzene	U		0.133	0.500	1	09/05/2018 16:43	WG1161708
Bromodichloromethane	U		0.0800	0.500	1	09/05/2018 16:43	WG1161708
Bromochloromethane	U		0.145	0.500	1	09/05/2018 16:43	WG1161708
Bromoform	U		0.186	0.500	1	09/05/2018 16:43	WG1161708
Bromomethane	U		0.157	2.50	1	09/05/2018 16:43	WG1161708
n-Butylbenzene	U		0.143	0.500	1	09/05/2018 16:43	WG1161708
sec-Butylbenzene	U		0.134	0.500	1	09/05/2018 16:43	WG1161708
tert-Butylbenzene	U		0.183	0.500	1	09/05/2018 16:43	WG1161708
Carbon disulfide	U		0.101	0.500	1	09/05/2018 16:43	WG1161708
Carbon tetrachloride	U		0.159	0.500	1	09/05/2018 16:43	WG1161708
Chlorobenzene	U		0.140	0.500	1	09/05/2018 16:43	WG1161708
Chlorodibromomethane	U		0.128	0.500	1	09/05/2018 16:43	WG1161708
Chloroethane	U		0.141	2.50	1	09/05/2018 16:43	WG1161708
Chloroform	U		0.0860	0.500	1	09/05/2018 16:43	WG1161708
Chloromethane	U		0.153	1.25	1	09/05/2018 16:43	WG1161708
2-Chlorotoluene	U		0.111	0.500	1	09/05/2018 16:43	WG1161708
4-Chlorotoluene	U		0.0972	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/05/2018 16:43	WG1161708
1,2-Dibromoethane	U		0.193	0.500	1	09/05/2018 16:43	WG1161708
Dibromomethane	U		0.117	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dichlorobenzene	U		0.101	0.500	1	09/05/2018 16:43	WG1161708
1,3-Dichlorobenzene	U		0.130	0.500	1	09/05/2018 16:43	WG1161708
1,4-Dichlorobenzene	U		0.121	0.500	1	09/05/2018 16:43	WG1161708
Dichlorodifluoromethane	U		0.127	2.50	1	09/05/2018 16:43	WG1161708
1,1-Dichloroethane	U		0.114	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dichloroethane	U		0.108	0.500	1	09/05/2018 16:43	WG1161708
1,1-Dichloroethene	U		0.188	0.500	1	09/05/2018 16:43	WG1161708
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/06/2018 02:34	WG1162010
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dichloropropane	U		0.190	0.500	1	09/05/2018 16:43	WG1161708
1,1-Dichloropropene	U		0.128	0.500	1	09/05/2018 16:43	WG1161708
1,3-Dichloropropane	U		0.147	1.00	1	09/05/2018 16:43	WG1161708
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/05/2018 16:43	WG1161708
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/05/2018 16:43	WG1161708
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/05/2018 16:43	WG1161708
2,2-Dichloropropane	U		0.0929	0.500	1	09/05/2018 16:43	WG1161708
Di-isopropyl ether	U		0.0924	0.500	1	09/05/2018 16:43	WG1161708
Ethylbenzene	U		0.158	0.500	1	09/05/2018 16:43	WG1161708
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/05/2018 16:43	WG1161708
2-Hexanone	U		0.757	5.00	1	09/05/2018 16:43	WG1161708
n-Hexane	U		0.305	5.00	1	09/05/2018 16:43	WG1161708
Iodomethane	U		0.377	10.0	1	09/06/2018 02:34	WG1162010
Isopropylbenzene	U		0.126	0.500	1	09/05/2018 16:43	WG1161708
p-Isopropyltoluene	U		0.138	0.500	1	09/05/2018 16:43	WG1161708
2-Butanone (MEK)	U		1.28	5.00	1	09/05/2018 16:43	WG1161708
Methylene Chloride	U		1.07	2.50	1	09/05/2018 16:43	WG1161708
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/05/2018 16:43	WG1161708
Methyl tert-butyl ether	U		0.102	0.500	1	09/05/2018 16:43	WG1161708
Naphthalene	U		0.174	2.50	1	09/05/2018 16:43	WG1161708
n-Propylbenzene	U		0.162	0.500	1	09/05/2018 16:43	WG1161708
Styrene	U		0.117	0.500	1	09/05/2018 16:43	WG1161708
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/05/2018 16:43	WG1161708
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/05/2018 16:43	WG1161708

JC 10/19/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/05/2018 16:43	WG1161708
Tetrachloroethene	U		0.199	0.500	1	09/05/2018 16:43	WG1161708
Toluene	U		0.412	0.500	1	09/05/2018 16:43	WG1161708
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/05/2018 16:43	WG1161708
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/05/2018 16:43	WG1161708
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/05/2018 16:43	WG1161708
1,1,2-Trichloroethane	U		0.186	0.500	1	09/05/2018 16:43	WG1161708
Trichloroethene	U		0.153	0.500	1	09/05/2018 16:43	WG1161708
Trichlorofluoromethane	U		0.130	2.50	1	09/05/2018 16:43	WG1161708
1,2,3-Trichloropropane	U		0.247	2.50	1	09/05/2018 16:43	WG1161708
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/05/2018 16:43	WG1161708
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/05/2018 16:43	WG1161708
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/05/2018 16:43	WG1161708
Vinyl acetate	U		0.645	5.00	1	09/05/2018 16:43	WG1161708
Vinyl chloride	U		0.118	0.500	1	09/05/2018 16:43	WG1161708
Xylenes, Total	U		0.316	1.50	1	09/05/2018 16:43	WG1161708
(S) Toluene-d8	*102*			*80.0-120*		*09/05/2018 16:43*	WG1161708
(S) Toluene-d8	*102*			*80.0-120*		*09/06/2018 02:34*	WG1162010
(S) Dibromofluoromethane	*96.4*			*75.0-120*		*09/05/2018 16:43*	WG1161708
(S) Dibromofluoromethane	*105*			*75.0-120*		*09/06/2018 02:34*	WG1162010
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*09/05/2018 16:43*	WG1161708
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*09/06/2018 02:34*	WG1162010

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.5		1	09/13/2018 12:19	WG1165172

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0193	U	J	0.0164	0.0299	1	09/12/2018 04:30	WG1164600
Acrylonitrile	U			0.00227	0.0150	1	09/12/2018 04:30	WG1164600
Benzene	U			0.000479	0.00120	1	09/12/2018 04:30	WG1164600
Bromobenzene	U			0.00126	0.0150	1	09/12/2018 04:30	WG1164600
Bromodichloromethane	U			0.000943	0.00299	1	09/12/2018 04:30	WG1164600
Bromochloromethane	U			0.00135	0.00598	1	09/12/2018 04:30	WG1164600
Bromoform	U			0.00716	0.0299	1	09/12/2018 04:30	WG1164600
Bromomethane	U			0.00443	0.0150	1	09/12/2018 04:30	WG1164600
n-Butylbenzene	0.00802	J	J	0.00460	0.0150	1	09/12/2018 04:30	WG1164600
sec-Butylbenzene	0.00399	J	J	0.00303	0.0150	1	09/12/2018 04:30	WG1164600
tert-Butylbenzene	0.00248	J	J	0.00186	0.00598	1	09/12/2018 04:30	WG1164600
Carbon disulfide	U			0.00486	0.0150	1	09/12/2018 04:30	WG1164600
Carbon tetrachloride	U			0.00129	0.00598	1	09/12/2018 04:30	WG1164600
Chlorobenzene	U			0.000686	0.00299	1	09/12/2018 04:30	WG1164600
Chlorodibromomethane	U			0.000539	0.00299	1	09/12/2018 04:30	WG1164600
Chloroethane	U			0.00129	0.00598	1	09/12/2018 04:30	WG1164600
Chloroform	U			0.000497	0.00299	1	09/12/2018 04:30	WG1164600
Chloromethane	U			0.00166	0.0150	1	09/12/2018 04:30	WG1164600
2-Chlorotoluene	U			0.00110	0.00299	1	09/12/2018 04:30	WG1164600
4-Chlorotoluene	U			0.00135	0.00598	1	09/12/2018 04:30	WG1164600
1,2-Dibromo-3-Chloropropane	U			0.00610	0.0299	1	09/12/2018 04:30	WG1164600
1,2-Dibromoethane	U			0.000628	0.00299	1	09/12/2018 04:30	WG1164600
Dibromomethane	U			0.00120	0.00598	1	09/12/2018 04:30	WG1164600
1,2-Dichlorobenzene	U			0.00174	0.00598	1	09/12/2018 04:30	WG1164600
1,3-Dichlorobenzene	U			0.00203	0.00598	1	09/12/2018 04:30	WG1164600
1,4-Dichlorobenzene	U			0.00236	0.00598	1	09/12/2018 04:30	WG1164600
Dichlorodifluoromethane	U			0.000979	0.00299	1	09/12/2018 04:30	WG1164600
1,1-Dichloroethane	U			0.000688	0.00299	1	09/12/2018 04:30	WG1164600
1,2-Dichloroethane	U			0.000569	0.00299	1	09/12/2018 04:30	WG1164600
1,1-Dichloroethene	0.0116			0.000598	0.00299	1	09/12/2018 04:30	WG1164600
cis-1,2-Dichloroethene	8.86			0.330	1.20	400	09/13/2018 03:50	WG1165154
trans-1,2-Dichloroethene	0.0116	J	J0	0.00171	0.00598	1	09/12/2018 04:30	WG1164600
1,2-Dichloropropane	U			0.608	2.39	400	09/13/2018 03:50	WG1165154
1,1-Dichloropropene	U			0.000838	0.00299	1	09/12/2018 04:30	WG1164600
1,3-Dichloropropane	U			0.00209	0.00598	1	09/12/2018 04:30	WG1164600
cis-1,3-Dichloropropene	U			0.000812	0.00299	1	09/12/2018 04:30	WG1164600
trans-1,3-Dichloropropene	U			0.00183	0.00598	1	09/12/2018 04:30	WG1164600
trans-1,4-Dichloro-2-butene	U			0.00168	0.00598	1	09/12/2018 04:30	WG1164600
2,2-Dichloropropane	U			0.000949	0.00299	1	09/12/2018 04:30	WG1164600
Di-isopropyl ether	U			0.000419	0.00120	1	09/12/2018 04:30	WG1164600
Ethylbenzene	0.00266	J	J	0.000634	0.00299	1	09/12/2018 04:30	WG1164600
Hexachloro-1,3-butadiene	U			0.0152	0.0299	1	09/12/2018 04:30	WG1164600
2-Hexanone	U			0.0120	0.0299	1	09/12/2018 04:30	WG1164600
n-Hexane	U	UJ	J0	0.00127	0.00598	1	09/12/2018 04:30	WG1164600
Iodomethane	U			0.00724	0.0150	1	09/12/2018 04:30	WG1164600
Isopropylbenzene	0.00186	J	J	0.00103	0.00299	1	09/12/2018 04:30	WG1164600
p-Isopropyltoluene	0.00450	J	J	0.00279	0.00598	1	09/12/2018 04:30	WG1164600
2-Butanone (MEK)	U			0.0150	0.0299	1	09/12/2018 04:30	WG1164600
Methylene Chloride	U			0.00795	0.0299	1	09/12/2018 04:30	WG1164600
4-Methyl-2-pentanone (MIBK)	U			0.0120	0.0299	1	09/12/2018 04:30	WG1164600

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1	09/12/2018 04:30	WG1164600
Naphthalene	0.0229		0.00373	0.0150	1	09/12/2018 04:30	WG1164600
n-Propylbenzene	0.00809		0.00141	0.00598	1	09/12/2018 04:30	WG1164600
Styrene	U		0.00327	0.0150	1	09/12/2018 04:30	WG1164600
1,1,1,2-Tetrachloroethane	U		0.000598	0.00299	1	09/12/2018 04:30	WG1164600
1,1,2,2-Tetrachloroethane	U		0.000467	0.00299	1	09/12/2018 04:30	WG1164600
1,1,2-Trichlorotrifluoroethane	U		0.323	1.20	400	09/13/2018 03:50	WG1165154
Tetrachloroethene	308		0.335	1.20	400	09/13/2018 03:50	WG1165154
Toluene	0.00716		0.00150	0.00598	1	09/12/2018 04:30	WG1164600
1,2,3-Trichlorobenzene	U		0.000748	0.00299	1	09/12/2018 04:30	WG1164600
1,2,4-Trichlorobenzene	U		0.00577	0.0150	1	09/12/2018 04:30	WG1164600
1,1,1-Trichloroethane	U		0.000329	0.00299	1	09/12/2018 04:30	WG1164600
1,1,2-Trichloroethane	U		0.00106	0.00299	1	09/12/2018 04:30	WG1164600
Trichloroethene	0.929		0.192	0.479	400	09/13/2018 03:50	WG1165154
Trichlorofluoromethane	U		0.000598	0.00299	1	09/12/2018 04:30	WG1164600
1,2,3-Trichloropropane	U		0.00610	0.0150	1	09/12/2018 04:30	WG1164600
1,2,4-Trimethylbenzene	0.0811		0.00139	0.00598	1	09/12/2018 04:30	WG1164600
1,2,3-Trimethylbenzene	0.0380		0.00138	0.00598	1	09/12/2018 04:30	WG1164600
1,3,5-Trimethylbenzene	0.0240		0.00129	0.00598	1	09/12/2018 04:30	WG1164600
Vinyl acetate	U UJ	J0	0.00421	0.0150	1	09/12/2018 04:30	WG1164600
Vinyl chloride	0.532		0.000818	0.00299	1	09/12/2018 04:30	WG1164600
Xylenes, Total	U		2.29	3.11	400	09/13/2018 03:50	WG1165154
(S) Toluene-d8	*105*			*75.0-131*		*09/12/2018 04:30*	WG1164600
(S) Toluene-d8	*98.6*			*75.0-131*		*09/13/2018 03:50*	WG1165154
(S) Dibromofluoromethane	*90.9*			*65.0-129*		*09/12/2018 04:30*	WG1164600
(S) Dibromofluoromethane	*106*			*65.0-129*		*09/13/2018 03:50*	WG1165154
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*09/12/2018 04:30*	WG1164600
(S) 4-Bromofluorobenzene	*96.7*			*67.0-138*		*09/13/2018 03:50*	WG1165154

Sample Narrative:

L1024338-01 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-01 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.7		1	09/13/2018 12:19	WG1165172

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0149	0.0273	1	09/12/2018 04:49	WG1164600
Acrylonitrile	U		0.00207	0.0136	1	09/12/2018 04:49	WG1164600
Benzene	U		0.000436	0.00109	1	09/12/2018 04:49	WG1164600
Bromobenzene	U		0.00115	0.0136	1	09/12/2018 04:49	WG1164600
Bromodichloromethane	U		0.000860	0.00273	1	09/12/2018 04:49	WG1164600
Bromochloromethane	U		0.00123	0.00545	1	09/12/2018 04:49	WG1164600
Bromoform	U		0.00652	0.0273	1	09/12/2018 04:49	WG1164600
Bromomethane	U		0.00404	0.0136	1	09/12/2018 04:49	WG1164600
n-Butylbenzene	U		0.00419	0.0136	1	09/12/2018 04:49	WG1164600
sec-Butylbenzene	U		0.00276	0.0136	1	09/12/2018 04:49	WG1164600
tert-Butylbenzene	U		0.00169	0.00545	1	09/12/2018 04:49	WG1164600
Carbon disulfide	U		0.00443	0.0136	1	09/12/2018 04:49	WG1164600
Carbon tetrachloride	U		0.00118	0.00545	1	09/12/2018 04:49	WG1164600
Chlorobenzene	U		0.000625	0.00273	1	09/12/2018 04:49	WG1164600
Chlorodibromomethane	U		0.000491	0.00273	1	09/12/2018 04:49	WG1164600
Chloroethane	U		0.00118	0.00545	1	09/12/2018 04:49	WG1164600
Chloroform	U		0.000453	0.00273	1	09/12/2018 04:49	WG1164600
Chloromethane	U		0.00152	0.0136	1	09/12/2018 04:49	WG1164600
2-Chlorotoluene	U		0.00100	0.00273	1	09/12/2018 04:49	WG1164600
4-Chlorotoluene	U		0.00123	0.00545	1	09/12/2018 04:49	WG1164600
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	09/12/2018 04:49	WG1164600
1,2-Dibromoethane	U		0.000573	0.00273	1	09/12/2018 04:49	WG1164600
Dibromomethane	U		0.00109	0.00545	1	09/12/2018 04:49	WG1164600
1,2-Dichlorobenzene	U		0.00158	0.00545	1	09/12/2018 04:49	WG1164600
1,3-Dichlorobenzene	U		0.00185	0.00545	1	09/12/2018 04:49	WG1164600
1,4-Dichlorobenzene	U		0.00215	0.00545	1	09/12/2018 04:49	WG1164600
Dichlorodifluoromethane	U		0.000892	0.00273	1	09/12/2018 04:49	WG1164600
1,1-Dichloroethane	U		0.000627	0.00273	1	09/12/2018 04:49	WG1164600
1,2-Dichloroethane	U		0.000518	0.00273	1	09/12/2018 04:49	WG1164600
1,1-Dichloroethene	U		0.000545	0.00273	1	09/12/2018 04:49	WG1164600
cis-1,2-Dichloroethene	U		1.51	5.45	2000	09/13/2018 04:10	WG1165154
trans-1,2-Dichloroethene	U	UJ J0	0.00156	0.00545	1	09/12/2018 04:49	WG1164600
1,2-Dichloropropane	U		2.77	10.9	2000	09/13/2018 04:10	WG1165154
1,1-Dichloropropene	U		0.000764	0.00273	1	09/12/2018 04:49	WG1164600
1,3-Dichloropropane	U		0.00191	0.00545	1	09/12/2018 04:49	WG1164600
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	09/12/2018 04:49	WG1164600
trans-1,3-Dichloropropene	U		0.00167	0.00545	1	09/12/2018 04:49	WG1164600
trans-1,4-Dichloro-2-butene	U		0.00153	0.00545	1	09/12/2018 04:49	WG1164600
2,2-Dichloropropane	U		0.000865	0.00273	1	09/12/2018 04:49	WG1164600
Di-isopropyl ether	U		0.000382	0.00109	1	09/12/2018 04:49	WG1164600
Ethylbenzene	0.00226	J J	0.000578	0.00273	1	09/12/2018 04:49	WG1164600
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/12/2018 04:49	WG1164600
2-Hexanone	U		0.0109	0.0273	1	09/12/2018 04:49	WG1164600
n-Hexane	U	UJ J0	0.00116	0.00545	1	09/12/2018 04:49	WG1164600
Iodomethane	U		0.00660	0.0136	1	09/12/2018 04:49	WG1164600
Isopropylbenzene	0.000956	J J	0.000941	0.00273	1	09/12/2018 04:49	WG1164600
p-Isopropyltoluene	U		0.00254	0.00545	1	09/12/2018 04:49	WG1164600
2-Butanone (MEK)	0.0224	J J	0.0136	0.0273	1	09/12/2018 04:49	WG1164600
Methylene Chloride	U		0.00724	0.0273	1	09/12/2018 04:49	WG1164600
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/12/2018 04:49	WG1164600

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000322	0.00109	1	09/12/2018 04:49	WG1164600
Naphthalene	U			0.00340	0.0136	1	09/12/2018 04:49	WG1164600
n-Propylbenzene	0.00358	J	J	0.00129	0.00545	1	09/12/2018 04:49	WG1164600
Styrene	U			0.00298	0.0136	1	09/12/2018 04:49	WG1164600
1,1,1,2-Tetrachloroethane	U			0.000545	0.00273	1	09/12/2018 04:49	WG1164600
1,1,2,2-Tetrachloroethane	U			0.000425	0.00273	1	09/12/2018 04:49	WG1164600
1,1,2-Trichlorotrifluoroethane	U			1.47	5.45	2000	09/13/2018 04:10	WG1165154
Tetrachloroethene	937			15.3	54.5	20000	09/13/2018 16:17	WG1165578
Toluene	0.00476	J	J	0.00136	0.00545	1	09/12/2018 04:49	WG1164600
1,2,3-Trichlorobenzene	U			0.000682	0.00273	1	09/12/2018 04:49	WG1164600
1,2,4-Trichlorobenzene	U			0.00526	0.0136	1	09/12/2018 04:49	WG1164600
1,1,1-Trichloroethane	U			0.000300	0.00273	1	09/12/2018 04:49	WG1164600
1,1,2-Trichloroethane	U			0.000963	0.00273	1	09/12/2018 04:49	WG1164600
Trichloroethene	0.922	J	J	0.873	2.18	2000	09/13/2018 04:10	WG1165154
Trichlorofluoromethane	U			0.000545	0.00273	1	09/12/2018 04:49	WG1164600
1,2,3-Trichloropropane	U			0.00556	0.0136	1	09/12/2018 04:49	WG1164600
1,2,4-Trimethylbenzene	0.00891			0.00127	0.00545	1	09/12/2018 04:49	WG1164600
1,2,3-Trimethylbenzene	U			0.00125	0.00545	1	09/12/2018 04:49	WG1164600
1,3,5-Trimethylbenzene	0.00290	J	J	0.00118	0.00545	1	09/12/2018 04:49	WG1164600
Vinyl acetate	U	UJ	J0	0.00384	0.0136	1	09/12/2018 04:49	WG1164600
Vinyl chloride	0.00293			0.000745	0.00273	1	09/12/2018 04:49	WG1164600
Xylenes, Total	U			10.4	14.2	2000	09/13/2018 04:10	WG1165154
(S) Toluene-d8	*124*				*75.0-131*		*09/12/2018 04:49*	WG1164600
(S) Toluene-d8	*99.3*				*75.0-131*		*09/13/2018 04:10*	WG1165154
(S) Toluene-d8	*99.7*				*75.0-131*		*09/13/2018 16:17*	WG1165578
(S) Dibromofluoromethane	*90.0*				*65.0-129*		*09/12/2018 04:49*	WG1164600
(S) Dibromofluoromethane	*107*				*65.0-129*		*09/13/2018 04:10*	WG1165154
(S) Dibromofluoromethane	*105*				*65.0-129*		*09/13/2018 16:17*	WG1165578
(S) 4-Bromofluorobenzene	*98.1*				*67.0-138*		*09/12/2018 04:49*	WG1164600
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*09/13/2018 04:10*	WG1165154
(S) 4-Bromofluorobenzene	*106*				*67.0-138*		*09/13/2018 16:17*	WG1165578

Sample Narrative:

L1024338-02 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-02 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18

IW-54B-13

Collected date/time: 09/06/18 08:55

SAMPLE RESULTS - 03

L1024338

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.2		1	09/13/2018 12:19	WG1165172

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0186	U J	0.0152	0.0277	1	09/12/2018 05:08	WG1164600
Acrylonitrile	U		0.00211	0.0139	1	09/12/2018 05:08	WG1164600
Benzene	U		0.000444	0.00111	1	09/12/2018 05:08	WG1164600
Bromobenzene	U		0.00116	0.0139	1	09/12/2018 05:08	WG1164600
Bromodichloromethane	U		0.000874	0.00277	1	09/12/2018 05:08	WG1164600
Bromochloromethane	U		0.00125	0.00555	1	09/12/2018 05:08	WG1164600
Bromoform	U		0.00663	0.0277	1	09/12/2018 05:08	WG1164600
Bromomethane	U		0.00410	0.0139	1	09/12/2018 05:08	WG1164600
n-Butylbenzene	U		0.00426	0.0139	1	09/12/2018 05:08	WG1164600
sec-Butylbenzene	U		0.00281	0.0139	1	09/12/2018 05:08	WG1164600
tert-Butylbenzene	U		0.00172	0.00555	1	09/12/2018 05:08	WG1164600
Carbon disulfide	U		0.00450	0.0139	1	09/12/2018 05:08	WG1164600
Carbon tetrachloride	U		0.00120	0.00555	1	09/12/2018 05:08	WG1164600
Chlorobenzene	U		0.000636	0.00277	1	09/12/2018 05:08	WG1164600
Chlorodibromomethane	U		0.000499	0.00277	1	09/12/2018 05:08	WG1164600
Chloroethane	U		0.00120	0.00555	1	09/12/2018 05:08	WG1164600
Chloroform	U		0.000460	0.00277	1	09/12/2018 05:08	WG1164600
Chloromethane	U		0.00154	0.0139	1	09/12/2018 05:08	WG1164600
2-Chlorotoluene	U		0.00102	0.00277	1	09/12/2018 05:08	WG1164600
4-Chlorotoluene	U		0.00125	0.00555	1	09/12/2018 05:08	WG1164600
1,2-Dibromo-3-Chloropropane	U		0.00566	0.0277	1	09/12/2018 05:08	WG1164600
1,2-Dibromoethane	U		0.000582	0.00277	1	09/12/2018 05:08	WG1164600
Dibromomethane	U		0.00111	0.00555	1	09/12/2018 05:08	WG1164600
1,2-Dichlorobenzene	U		0.00161	0.00555	1	09/12/2018 05:08	WG1164600
1,3-Dichlorobenzene	U		0.00189	0.00555	1	09/12/2018 05:08	WG1164600
1,4-Dichlorobenzene	U		0.00219	0.00555	1	09/12/2018 05:08	WG1164600
Dichlorodifluoromethane	U		0.000907	0.00277	1	09/12/2018 05:08	WG1164600
1,1-Dichloroethane	U		0.000638	0.00277	1	09/12/2018 05:08	WG1164600
1,2-Dichloroethane	U		0.000527	0.00277	1	09/12/2018 05:08	WG1164600
1,1-Dichloroethene	U		0.000555	0.00277	1	09/12/2018 05:08	WG1164600
cis-1,2-Dichloroethene	0.0349		0.00765	0.0277	10	09/13/2018 15:59	WG1165578
trans-1,2-Dichloroethene	U	UJ J0	0.00159	0.00555	1	09/12/2018 05:08	WG1164600
1,2-Dichloropropane	U		0.0141	0.0555	10	09/13/2018 15:59	WG1165578
1,1-Dichloropropene	U		0.000776	0.00277	1	09/12/2018 05:08	WG1164600
1,3-Dichloropropane	U		0.00194	0.00555	1	09/12/2018 05:08	WG1164600
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	09/12/2018 05:08	WG1164600
trans-1,3-Dichloropropene	U		0.00170	0.00555	1	09/12/2018 05:08	WG1164600
trans-1,4-Dichloro-2-butene	U		0.00155	0.00555	1	09/12/2018 05:08	WG1164600
2,2-Dichloropropane	U		0.000880	0.00277	1	09/12/2018 05:08	WG1164600
Di-isopropyl ether	U		0.000388	0.00111	1	09/12/2018 05:08	WG1164600
Ethylbenzene	U		0.000588	0.00277	1	09/12/2018 05:08	WG1164600
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	09/12/2018 05:08	WG1164600
2-Hexanone	U		0.0111	0.0277	1	09/12/2018 05:08	WG1164600
n-Hexane	U	UJ J0	0.00118	0.00555	1	09/12/2018 05:08	WG1164600
Iodomethane	U		0.00671	0.0139	1	09/12/2018 05:08	WG1164600
Isopropylbenzene	U		0.000957	0.00277	1	09/12/2018 05:08	WG1164600
p-Isopropyltoluene	U		0.00258	0.00555	1	09/12/2018 05:08	WG1164600
2-Butanone (MEK)	U		0.0139	0.0277	1	09/12/2018 05:08	WG1164600
Methylene Chloride	U		0.00737	0.0277	1	09/12/2018 05:08	WG1164600
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	09/12/2018 05:08	WG1164600

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IW-54B-13

Collected date/time: 09/06/18 08:55

SAMPLE RESULTS - 03

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	09/12/2018 05:08	WG1164600
Naphthalene	U		0.00346	0.0139	1	09/12/2018 05:08	WG1164600
n-Propylbenzene	U		0.00131	0.00555	1	09/12/2018 05:08	WG1164600
Styrene	U		0.00303	0.0139	1	09/12/2018 05:08	WG1164600
1,1,1,2-Tetrachloroethane	U		0.000555	0.00277	1	09/12/2018 05:08	WG1164600
1,1,2,2-Tetrachloroethane	U		0.000433	0.00277	1	09/12/2018 05:08	WG1164600
1,1,2-Trichlorotrifluoroethane	U		0.00749	0.0277	10	09/13/2018 15:59	WG1165578
Tetrachloroethene	2.21		0.00776	0.0277	10	09/13/2018 15:59	WG1165578
Toluene	U		0.00139	0.00555	1	09/12/2018 05:08	WG1164600
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	09/12/2018 05:08	WG1164600
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	09/12/2018 05:08	WG1164600
1,1,1-Trichloroethane	U		0.000305	0.00277	1	09/12/2018 05:08	WG1164600
1,1,2-Trichloroethane	U		0.000979	0.00277	1	09/12/2018 05:08	WG1164600
Trichloroethene	0.0456		0.00444	0.0111	10	09/13/2018 15:59	WG1165578
Trichlorofluoromethane	U		0.000555	0.00277	1	09/12/2018 05:08	WG1164600
1,2,3-Trichloropropane	U		0.00566	0.0139	1	09/12/2018 05:08	WG1164600
1,2,4-Trimethylbenzene	U		0.00129	0.00555	1	09/12/2018 05:08	WG1164600
1,2,3-Trimethylbenzene	U		0.00128	0.00555	1	09/12/2018 05:08	WG1164600
1,3,5-Trimethylbenzene	U		0.00120	0.00555	1	09/12/2018 05:08	WG1164600
Vinyl acetate	U UJ	J0	0.00390	0.0139	1	09/12/2018 05:08	WG1164600
Vinyl chloride	U		0.000758	0.00277	1	09/12/2018 05:08	WG1164600
Xylenes, Total	U		0.0530	0.0721	10	09/13/2018 15:59	WG1165578
(S) Toluene-d8	*108*			*75.0-131*		*09/12/2018 05:08*	WG1164600
(S) Toluene-d8	*101*			*75.0-131*		*09/13/2018 15:59*	WG1165578
(S) Dibromofluoromethane	*91.7*			*65.0-129*		*09/12/2018 05:08*	WG1164600
(S) Dibromofluoromethane	*110*			*65.0-129*		*09/13/2018 15:59*	WG1165578
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*09/12/2018 05:08*	WG1164600
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/13/2018 15:59*	WG1165578

Sample Narrative:

L1024338-03 WG1164600, WG1165578: Not all analytes reportable at lower dilution.

L1024338-03 WG1164600, WG1165578: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.6		1	09/13/2018 11:53	WG1165176

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0149	0.0273	1	09/12/2018 05:27	WG1164600
Acrylonitrile	U		0.00207	0.0136	1	09/12/2018 05:27	WG1164600
Benzene	U		0.000436	0.00109	1	09/12/2018 05:27	WG1164600
Bromobenzene	U		0.00115	0.0136	1	09/12/2018 05:27	WG1164600
Bromodichloromethane	U		0.000860	0.00273	1	09/12/2018 05:27	WG1164600
Bromochloromethane	U		0.00123	0.00546	1	09/12/2018 05:27	WG1164600
Bromoform	U		0.00652	0.0273	1	09/12/2018 05:27	WG1164600
Bromomethane	U		0.00404	0.0136	1	09/12/2018 05:27	WG1164600
n-Butylbenzene	U		0.00419	0.0136	1	09/12/2018 05:27	WG1164600
sec-Butylbenzene	U		0.00276	0.0136	1	09/12/2018 05:27	WG1164600
tert-Butylbenzene	U		0.00169	0.00546	1	09/12/2018 05:27	WG1164600
Carbon disulfide	U		0.00443	0.0136	1	09/12/2018 05:27	WG1164600
Carbon tetrachloride	U		0.00118	0.00546	1	09/12/2018 05:27	WG1164600
Chlorobenzene	U		0.000625	0.00273	1	09/12/2018 05:27	WG1164600
Chlorodibromomethane	U		0.000491	0.00273	1	09/12/2018 05:27	WG1164600
Chloroethane	U		0.00118	0.00546	1	09/12/2018 05:27	WG1164600
Chloroform	U		0.000453	0.00273	1	09/12/2018 05:27	WG1164600
Chloromethane	U		0.00152	0.0136	1	09/12/2018 05:27	WG1164600
2-Chlorotoluene	U		0.00100	0.00273	1	09/12/2018 05:27	WG1164600
4-Chlorotoluene	U		0.00123	0.00546	1	09/12/2018 05:27	WG1164600
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	09/12/2018 05:27	WG1164600
1,2-Dibromoethane	U		0.000573	0.00273	1	09/12/2018 05:27	WG1164600
Dibromomethane	U		0.00109	0.00546	1	09/12/2018 05:27	WG1164600
1,2-Dichlorobenzene	U		0.00158	0.00546	1	09/12/2018 05:27	WG1164600
1,3-Dichlorobenzene	U		0.00185	0.00546	1	09/12/2018 05:27	WG1164600
1,4-Dichlorobenzene	U		0.00215	0.00546	1	09/12/2018 05:27	WG1164600
Dichlorodifluoromethane	U		0.000893	0.00273	1	09/12/2018 05:27	WG1164600
1,1-Dichloroethane	U		0.000627	0.00273	1	09/12/2018 05:27	WG1164600
1,2-Dichloroethane	U		0.000518	0.00273	1	09/12/2018 05:27	WG1164600
1,1-Dichloroethene	0.00669		0.000546	0.00273	1	09/12/2018 05:27	WG1164600
cis-1,2-Dichloroethene	1.90		0.000753	0.00273	1	09/12/2018 05:27	WG1164600
trans-1,2-Dichloroethene	0.00612 J	J0	0.00156	0.00546	1	09/12/2018 05:27	WG1164600
1,2-Dichloropropane	1.13		0.0277	0.109	20	09/13/2018 04:50	WG1165154
1,1-Dichloropropene	U		0.000764	0.00273	1	09/12/2018 05:27	WG1164600
1,3-Dichloropropane	U		0.00191	0.00546	1	09/12/2018 05:27	WG1164600
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	09/12/2018 05:27	WG1164600
trans-1,3-Dichloropropene	U		0.00167	0.00546	1	09/12/2018 05:27	WG1164600
trans-1,4-Dichloro-2-butene	U		0.00153	0.00546	1	09/12/2018 05:27	WG1164600
2,2-Dichloropropane	U		0.000865	0.00273	1	09/12/2018 05:27	WG1164600
Di-isopropyl ether	U		0.000382	0.00109	1	09/12/2018 05:27	WG1164600
Ethylbenzene	U		0.000578	0.00273	1	09/12/2018 05:27	WG1164600
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/12/2018 05:27	WG1164600
2-Hexanone	U		0.0109	0.0273	1	09/12/2018 05:27	WG1164600
n-Hexane	U UJ	J0	0.00116	0.00546	1	09/12/2018 05:27	WG1164600
Iodomethane	U		0.00660	0.0136	1	09/12/2018 05:27	WG1164600
Isopropylbenzene	U		0.000942	0.00273	1	09/12/2018 05:27	WG1164600
p-Isopropyltoluene	U		0.00254	0.00546	1	09/12/2018 05:27	WG1164600
2-Butanone (MEK)	0.0152 J	J	0.0136	0.0273	1	09/12/2018 05:27	WG1164600
Methylene Chloride	U		0.00724	0.0273	1	09/12/2018 05:27	WG1164600
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/12/2018 05:27	WG1164600

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	09/12/2018 05:27	WG1164600
Naphthalene	U		0.00340	0.0136	1	09/12/2018 05:27	WG1164600
n-Propylbenzene	U		0.00129	0.00546	1	09/12/2018 05:27	WG1164600
Styrene	U		0.00298	0.0136	1	09/12/2018 05:27	WG1164600
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1	09/12/2018 05:27	WG1164600
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	09/12/2018 05:27	WG1164600
1,1,2-Trichlorotrifluoroethane	U		0.0147	0.0546	20	09/13/2018 04:50	WG1165154
Tetrachloroethene	11.0		0.0153	0.0546	20	09/13/2018 04:50	WG1165154
Toluene	0.00277 J	J	0.00136	0.00546	1	09/12/2018 05:27	WG1164600
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	09/12/2018 05:27	WG1164600
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	09/12/2018 05:27	WG1164600
1,1,1-Trichloroethane	U		0.000300	0.00273	1	09/12/2018 05:27	WG1164600
1,1,2-Trichloroethane	U		0.000963	0.00273	1	09/12/2018 05:27	WG1164600
Trichloroethene	4.48		0.00873	0.0218	20	09/13/2018 04:50	WG1165154
Trichlorofluoromethane	U		0.000546	0.00273	1	09/12/2018 05:27	WG1164600
1,2,3-Trichloropropane	U		0.00556	0.0136	1	09/12/2018 05:27	WG1164600
1,2,4-Trimethylbenzene	0.00251 J	J	0.00127	0.00546	1	09/12/2018 05:27	WG1164600
1,2,3-Trimethylbenzene	U		0.00125	0.00546	1	09/12/2018 05:27	WG1164600
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	09/12/2018 05:27	WG1164600
Vinyl acetate	U UJ	J0	0.00384	0.0136	1	09/12/2018 05:27	WG1164600
Vinyl chloride	U		0.000745	0.00273	1	09/12/2018 05:27	WG1164600
Xylenes, Total	U		0.104	0.142	20	09/13/2018 04:50	WG1165154
(S) Toluene-d8	*105*			*75.0-131*		*09/12/2018 05:27*	WG1164600
(S) Toluene-d8	*100*			*75.0-131*		*09/13/2018 04:50*	WG1165154
(S) Dibromofluoromethane	*93.5*			*65.0-129*		*09/12/2018 05:27*	WG1164600
(S) Dibromofluoromethane	*105*			*65.0-129*		*09/13/2018 04:50*	WG1165154
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/12/2018 05:27*	WG1164600
(S) 4-Bromofluorobenzene	*96.9*			*67.0-138*		*09/13/2018 04:50*	WG1165154

Sample Narrative:

L1024338-04 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-04 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.8		1	09/13/2018 11:53	WG1165176

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0171	0.0313	1.06	09/12/2018 05:46	WG1164600
Acrylonitrile	U		0.00237	0.0156	1.06	09/12/2018 05:46	WG1164600
Benzene	0.000702 J	J	0.000500	0.00125	1.06	09/12/2018 05:46	WG1164600
Bromobenzene	U		0.00131	0.0156	1.06	09/12/2018 05:46	WG1164600
Bromodichloromethane	U		0.000985	0.00313	1.06	09/12/2018 05:46	WG1164600
Bromochloromethane	U		0.00142	0.00625	1.06	09/12/2018 05:46	WG1164600
Bromoform	U		0.00748	0.0313	1.06	09/12/2018 05:46	WG1164600
Bromomethane	U		0.00462	0.0156	1.06	09/12/2018 05:46	WG1164600
n-Butylbenzene	U		0.00480	0.0156	1.06	09/12/2018 05:46	WG1164600
sec-Butylbenzene	U		0.00316	0.0156	1.06	09/12/2018 05:46	WG1164600
tert-Butylbenzene	U		0.00193	0.00625	1.06	09/12/2018 05:46	WG1164600
Carbon disulfide	U		0.00507	0.0156	1.06	09/12/2018 05:46	WG1164600
Carbon tetrachloride	U		0.00134	0.00625	1.06	09/12/2018 05:46	WG1164600
Chlorobenzene	U		0.000716	0.00313	1.06	09/12/2018 05:46	WG1164600
Chlorodibromomethane	U		0.000563	0.00313	1.06	09/12/2018 05:46	WG1164600
Chloroethane	U		0.00134	0.00625	1.06	09/12/2018 05:46	WG1164600
Chloroform	U		0.000519	0.00313	1.06	09/12/2018 05:46	WG1164600
Chloromethane	U		0.00173	0.0156	1.06	09/12/2018 05:46	WG1164600
2-Chlorotoluene	U		0.00115	0.00313	1.06	09/12/2018 05:46	WG1164600
4-Chlorotoluene	U		0.00142	0.00625	1.06	09/12/2018 05:46	WG1164600
1,2-Dibromo-3-Chloropropane	U		0.00638	0.0313	1.06	09/12/2018 05:46	WG1164600
1,2-Dibromoethane	U		0.000656	0.00313	1.06	09/12/2018 05:46	WG1164600
Dibromomethane	U		0.00125	0.00625	1.06	09/12/2018 05:46	WG1164600
1,2-Dichlorobenzene	U		0.00182	0.00625	1.06	09/12/2018 05:46	WG1164600
1,3-Dichlorobenzene	U		0.00212	0.00625	1.06	09/12/2018 05:46	WG1164600
1,4-Dichlorobenzene	U		0.00247	0.00625	1.06	09/12/2018 05:46	WG1164600
Dichlorodifluoromethane	U		0.00102	0.00313	1.06	09/12/2018 05:46	WG1164600
1,1-Dichloroethane	U		0.000720	0.00313	1.06	09/12/2018 05:46	WG1164600
1,2-Dichloroethane	U		0.000595	0.00313	1.06	09/12/2018 05:46	WG1164600
1,1-Dichloroethene	0.00379		0.000625	0.00313	1.06	09/12/2018 05:46	WG1164600
cis-1,2-Dichloroethene	1.02		0.000862	0.00313	1.06	09/12/2018 05:46	WG1164600
trans-1,2-Dichloroethene	U UJ	J0	0.00179	0.00625	1.06	09/12/2018 05:46	WG1164600
1,2-Dichloropropane	U		0.00157	0.00619	1.05	09/13/2018 03:30	WG1165154
1,1-Dichloropropene	U		0.000875	0.00313	1.06	09/12/2018 05:46	WG1164600
1,3-Dichloropropane	U		0.00219	0.00625	1.06	09/12/2018 05:46	WG1164600
cis-1,3-Dichloropropene	U		0.000848	0.00313	1.06	09/12/2018 05:46	WG1164600
trans-1,3-Dichloropropene	U		0.00191	0.00625	1.06	09/12/2018 05:46	WG1164600
trans-1,4-Dichloro-2-butene	U		0.00175	0.00625	1.06	09/12/2018 05:46	WG1164600
2,2-Dichloropropane	U		0.000991	0.00313	1.06	09/12/2018 05:46	WG1164600
Di-isopropyl ether	U		0.000438	0.00125	1.06	09/12/2018 05:46	WG1164600
Ethylbenzene	U		0.000663	0.00313	1.06	09/12/2018 05:46	WG1164600
Hexachloro-1,3-butadiene	U		0.0159	0.0313	1.06	09/12/2018 05:46	WG1164600
2-Hexanone	U		0.0125	0.0313	1.06	09/12/2018 05:46	WG1164600
n-Hexane	U UJ	J0	0.00132	0.00625	1.06	09/12/2018 05:46	WG1164600
Iodomethane	U		0.00756	0.0156	1.06	09/12/2018 05:46	WG1164600
Isopropylbenzene	U		0.00108	0.00313	1.06	09/12/2018 05:46	WG1164600
p-Isopropyltoluene	U		0.00291	0.00625	1.06	09/12/2018 05:46	WG1164600
2-Butanone (MEK)	0.0350		0.0156	0.0313	1.06	09/12/2018 05:46	WG1164600
Methylene Chloride	U		0.00830	0.0313	1.06	09/12/2018 05:46	WG1164600
4-Methyl-2-pentanone (MIBK)	U		0.0125	0.0313	1.06	09/12/2018 05:46	WG1164600

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IW-54B-33

Collected date/time: 09/06/18 10:15

SAMPLE RESULTS - 05

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000369	0.00125	1.06	09/12/2018 05:46	WG1164600
Naphthalene	U		0.00390	0.0156	1.06	09/12/2018 05:46	WG1164600
n-Propylbenzene	U		0.00147	0.00625	1.06	09/12/2018 05:46	WG1164600
Styrene	U		0.00341	0.0156	1.06	09/12/2018 05:46	WG1164600
1,1,1,2-Tetrachloroethane	U		0.000625	0.00313	1.06	09/12/2018 05:46	WG1164600
1,1,2,2-Tetrachloroethane	U		0.000487	0.00313	1.06	09/12/2018 05:46	WG1164600
1,1,2-Trichlorotrifluoroethane	U		0.000836	0.00310	1.05	09/13/2018 03:30	WG1165154
Tetrachloroethene	0.0689		0.000867	0.00310	1.05	09/13/2018 03:30	WG1165154
Toluene	0.00246 J	J	0.00156	0.00625	1.06	09/12/2018 05:46	WG1164600
1,2,3-Trichlorobenzene	U		0.000781	0.00313	1.06	09/12/2018 05:46	WG1164600
1,2,4-Trichlorobenzene	U		0.00603	0.0156	1.06	09/12/2018 05:46	WG1164600
1,1,1-Trichloroethane	U		0.000344	0.00313	1.06	09/12/2018 05:46	WG1164600
1,1,2-Trichloroethane	U		0.00110	0.00313	1.06	09/12/2018 05:46	WG1164600
Trichloroethene	0.0349		0.000495	0.00124	1.05	09/13/2018 03:30	WG1165154
Trichlorofluoromethane	U		0.000625	0.00313	1.06	09/12/2018 05:46	WG1164600
1,2,3-Trichloropropane	U		0.00638	0.0156	1.06	09/12/2018 05:46	WG1164600
1,2,4-Trimethylbenzene	U		0.00145	0.00625	1.06	09/12/2018 05:46	WG1164600
1,2,3-Trimethylbenzene	U		0.00144	0.00625	1.06	09/12/2018 05:46	WG1164600
1,3,5-Trimethylbenzene	U		0.00134	0.00625	1.06	09/12/2018 05:46	WG1164600
Vinyl acetate	U UJ	J0	0.00440	0.0156	1.06	09/12/2018 05:46	WG1164600
Vinyl chloride	0.0927		0.000854	0.00313	1.06	09/12/2018 05:46	WG1164600
Xylenes, Total	U		0.00592	0.00805	1.05	09/13/2018 03:30	WG1165154
(S) Toluene-d8	*90.7*			*75.0-131*		*09/12/2018 05:46*	WG1164600
(S) Toluene-d8	*110*			*75.0-131*		*09/13/2018 03:30*	WG1165154
(S) Dibromofluoromethane	*98.7*			*65.0-129*		*09/12/2018 05:46*	WG1164600
(S) Dibromofluoromethane	*87.8*			*65.0-129*		*09/13/2018 03:30*	WG1165154
(S) 4-Bromofluorobenzene	*95.7*			*67.0-138*		*09/12/2018 05:46*	WG1164600
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*09/13/2018 03:30*	WG1165154

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.5		1	09/13/2018 11:53	WG1165176

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J3	0.0155	0.0283	1	09/12/2018 06:05	WG1164600
Acrylonitrile	U		0.00215	0.0141	1	09/12/2018 06:05	WG1164600
Benzene	0.000635 J	J	0.000452	0.00113	1	09/12/2018 06:05	WG1164600
Bromobenzene	U		0.00119	0.0141	1	09/12/2018 06:05	WG1164600
Bromodichloromethane	U		0.000891	0.00283	1	09/12/2018 06:05	WG1164600
Bromochloromethane	U		0.00128	0.00565	1	09/12/2018 06:05	WG1164600
Bromoform	U		0.00676	0.0283	1	09/12/2018 06:05	WG1164600
Bromomethane	U		0.00418	0.0141	1	09/12/2018 06:05	WG1164600
n-Butylbenzene	U		0.00434	0.0141	1	09/12/2018 06:05	WG1164600
sec-Butylbenzene	U		0.00286	0.0141	1	09/12/2018 06:05	WG1164600
tert-Butylbenzene	U		0.00175	0.00565	1	09/12/2018 06:05	WG1164600
Carbon disulfide	U		0.00459	0.0141	1	09/12/2018 06:05	WG1164600
Carbon tetrachloride	U		0.00122	0.00565	1	09/12/2018 06:05	WG1164600
Chlorobenzene	U		0.000648	0.00283	1	09/12/2018 06:05	WG1164600
Chlorodibromomethane	U		0.000509	0.00283	1	09/12/2018 06:05	WG1164600
Chloroethane	U		0.00122	0.00565	1	09/12/2018 06:05	WG1164600
Chloroform	U		0.000469	0.00283	1	09/12/2018 06:05	WG1164600
Chloromethane	U		0.00157	0.0141	1	09/12/2018 06:05	WG1164600
2-Chlorotoluene	U		0.00104	0.00283	1	09/12/2018 06:05	WG1164600
4-Chlorotoluene	U		0.00128	0.00565	1	09/12/2018 06:05	WG1164600
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0283	1	09/12/2018 06:05	WG1164600
1,2-Dibromoethane	U		0.000593	0.00283	1	09/12/2018 06:05	WG1164600
Dibromomethane	U		0.00113	0.00565	1	09/12/2018 06:05	WG1164600
1,2-Dichlorobenzene	U		0.00164	0.00565	1	09/12/2018 06:05	WG1164600
1,3-Dichlorobenzene	U		0.00192	0.00565	1	09/12/2018 06:05	WG1164600
1,4-Dichlorobenzene	U		0.00223	0.00565	1	09/12/2018 06:05	WG1164600
Dichlorodifluoromethane	U		0.000925	0.00283	1	09/12/2018 06:05	WG1164600
1,1-Dichloroethane	U		0.000650	0.00283	1	09/12/2018 06:05	WG1164600
1,2-Dichloroethane	U		0.000537	0.00283	1	09/12/2018 06:05	WG1164600
1,1-Dichloroethene	0.0124		0.000565	0.00283	1	09/12/2018 06:05	WG1164600
cis-1,2-Dichloroethene	3.74		0.00780	0.0283	10	09/13/2018 05:09	WG1165154
trans-1,2-Dichloroethene	0.0101 J	J0	0.00162	0.00565	1	09/12/2018 06:05	WG1164600
1,2-Dichloropropane	U		0.0144	0.0565	10	09/13/2018 05:09	WG1165154
1,1-Dichloropropene	U		0.000791	0.00283	1	09/12/2018 06:05	WG1164600
1,3-Dichloropropane	U		0.00198	0.00565	1	09/12/2018 06:05	WG1164600
cis-1,3-Dichloropropene	U		0.000766	0.00283	1	09/12/2018 06:05	WG1164600
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	09/12/2018 06:05	WG1164600
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	09/12/2018 06:05	WG1164600
2,2-Dichloropropane	U		0.000896	0.00283	1	09/12/2018 06:05	WG1164600
Di-isopropyl ether	U		0.000396	0.00113	1	09/12/2018 06:05	WG1164600
Ethylbenzene	U		0.000599	0.00283	1	09/12/2018 06:05	WG1164600
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/12/2018 06:05	WG1164600
2-Hexanone	U		0.0113	0.0283	1	09/12/2018 06:05	WG1164600
n-Hexane	U UJ	J0	0.00120	0.00565	1	09/12/2018 06:05	WG1164600
Iodomethane	U		0.00684	0.0141	1	09/12/2018 06:05	WG1164600
Isopropylbenzene	U		0.000975	0.00283	1	09/12/2018 06:05	WG1164600
p-Isopropyltoluene	U		0.00263	0.00565	1	09/12/2018 06:05	WG1164600
2-Butanone (MEK)	U		0.0141	0.0283	1	09/12/2018 06:05	WG1164600
Methylene Chloride	U		0.00751	0.0283	1	09/12/2018 06:05	WG1164600
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/12/2018 06:05	WG1164600

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000333	0.00113	1	09/12/2018 06:05	WG1164600
Naphthalene	U			0.00353	0.0141	1	09/12/2018 06:05	WG1164600
n-Propylbenzene	U			0.00133	0.00565	1	09/12/2018 06:05	WG1164600
Styrene	U			0.00309	0.0141	1	09/12/2018 06:05	WG1164600
1,1,1,2-Tetrachloroethane	U			0.000565	0.00283	1	09/12/2018 06:05	WG1164600
1,1,2,2-Tetrachloroethane	U			0.000441	0.00283	1	09/12/2018 06:05	WG1164600
1,1,2-Trichlorotrifluoroethane	U			0.00763	0.0283	10	09/13/2018 05:09	WG1165154
Tetrachloroethene	0.313			0.00791	0.0283	10	09/13/2018 05:09	WG1165154
Toluene	0.00380	J	J	0.00141	0.00565	1	09/12/2018 06:05	WG1164600
1,2,3-Trichlorobenzene	U			0.000706	0.00283	1	09/12/2018 06:05	WG1164600
1,2,4-Trichlorobenzene	U			0.00545	0.0141	1	09/12/2018 06:05	WG1164600
1,1,1-Trichloroethane	U			0.000311	0.00283	1	09/12/2018 06:05	WG1164600
1,1,2-Trichloroethane	U			0.000998	0.00283	1	09/12/2018 06:05	WG1164600
Trichloroethene	0.0257			0.00452	0.0113	10	09/13/2018 05:09	WG1165154
Trichlorofluoromethane	U			0.000565	0.00283	1	09/12/2018 06:05	WG1164600
1,2,3-Trichloropropane	U			0.00576	0.0141	1	09/12/2018 06:05	WG1164600
1,2,4-Trimethylbenzene	0.00191	J	J	0.00131	0.00565	1	09/12/2018 06:05	WG1164600
1,2,3-Trimethylbenzene	U			0.00130	0.00565	1	09/12/2018 06:05	WG1164600
1,3,5-Trimethylbenzene	U			0.00122	0.00565	1	09/12/2018 06:05	WG1164600
Vinyl acetate	U	UJ	J0	0.00398	0.0141	1	09/12/2018 06:05	WG1164600
Vinyl chloride	0.176	J -	J6	0.000772	0.00283	1	09/12/2018 06:05	WG1164600
Xylenes, Total	U			0.0540	0.0735	10	09/13/2018 05:09	WG1165154
(S) Toluene-d8	*94.9*				*75.0-131*		*09/12/2018 06:05*	WG1164600
(S) Toluene-d8	*102*				*75.0-131*		*09/13/2018 05:09*	WG1165154
(S) Dibromofluoromethane	*94.5*				*65.0-129*		*09/12/2018 06:05*	WG1164600
(S) Dibromofluoromethane	*98.4*				*65.0-129*		*09/13/2018 05:09*	WG1165154
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/12/2018 06:05*	WG1164600
(S) 4-Bromofluorobenzene	*94.7*				*67.0-138*		*09/13/2018 05:09*	WG1165154

Sample Narrative:

L1024338-06 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-06 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.3		1	09/13/2018 11:53	WG1165176

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0163	0.0298	1.04	09/17/2018 13:33	WG1166945
Acrylonitrile	U			0.00227	0.0149	1.04	09/17/2018 13:33	WG1166945
Benzene	0.000769	J	J	0.000476	0.00119	1.04	09/17/2018 13:33	WG1166945
Bromobenzene	U			0.00125	0.0149	1.04	09/17/2018 13:33	WG1166945
Bromodichloromethane	U			0.0939	0.298	104	09/17/2018 15:38	WG1167356
Bromochloromethane	U			0.00135	0.00595	1.04	09/17/2018 13:33	WG1166945
Bromoform	U			0.00712	0.0298	1.04	09/17/2018 13:33	WG1166945
Bromomethane	U			0.441	1.49	104	09/17/2018 15:38	WG1167356
n-Butylbenzene	0.00478	J	J	0.00457	0.0149	1.04	09/17/2018 13:33	WG1166945
sec-Butylbenzene	U			0.00301	0.0149	1.04	09/17/2018 13:33	WG1166945
tert-Butylbenzene	0.00213	J	J	0.00184	0.00595	1.04	09/17/2018 13:33	WG1166945
Carbon disulfide	0.00537	U	B J	0.00483	0.0149	1.04	09/17/2018 13:33	WG1166945
Carbon tetrachloride	U			0.00128	0.00595	1.04	09/17/2018 13:33	WG1166945
Chlorobenzene	U			0.000682	0.00298	1.04	09/17/2018 13:33	WG1166945
Chlorodibromomethane	U			0.000536	0.00298	1.04	09/17/2018 13:33	WG1166945
Chloroethane	U			0.00128	0.00595	1.04	09/17/2018 13:33	WG1166945
Chloroform	U			0.000495	0.00298	1.04	09/17/2018 13:33	WG1166945
Chloromethane	U			0.00165	0.0149	1.04	09/17/2018 13:33	WG1166945
2-Chlorotoluene	U			0.00110	0.00298	1.04	09/17/2018 13:33	WG1166945
4-Chlorotoluene	U			0.00135	0.00595	1.04	09/17/2018 13:33	WG1166945
1,2-Dibromo-3-Chloropropane	U			0.00607	0.0298	1.04	09/17/2018 13:33	WG1166945
1,2-Dibromoethane	U	UJ	J4	0.000625	0.00298	1.04	09/17/2018 13:33	WG1166945
Dibromomethane	U			0.00119	0.00595	1.04	09/17/2018 13:33	WG1166945
1,2-Dichlorobenzene	U			0.00173	0.00595	1.04	09/17/2018 13:33	WG1166945
1,3-Dichlorobenzene	U			0.00203	0.00595	1.04	09/17/2018 13:33	WG1166945
1,4-Dichlorobenzene	U	UJ	J4	0.00235	0.00595	1.04	09/17/2018 13:33	WG1166945
Dichlorodifluoromethane	U			0.000974	0.00298	1.04	09/17/2018 13:33	WG1166945
1,1-Dichloroethane	U			0.000685	0.00298	1.04	09/17/2018 13:33	WG1166945
1,2-Dichloroethane	U			0.000566	0.00298	1.04	09/17/2018 13:33	WG1166945
1,1-Dichloroethene	0.00857			0.000595	0.00298	1.04	09/17/2018 13:33	WG1166945
cis-1,2-Dichloroethene	0.980			0.000822	0.00298	1.04	09/17/2018 13:33	WG1166945
trans-1,2-Dichloroethene	0.0424			0.00171	0.00595	1.04	09/17/2018 13:33	WG1166945
1,2-Dichloropropane	U			0.00151	0.00595	1.04	09/17/2018 13:33	WG1166945
1,1-Dichloropropene	U			0.000834	0.00298	1.04	09/17/2018 13:33	WG1166945
1,3-Dichloropropane	U			0.00208	0.00595	1.04	09/17/2018 13:33	WG1166945
cis-1,3-Dichloropropene	U			0.000807	0.00298	1.04	09/17/2018 13:33	WG1166945
trans-1,3-Dichloropropene	U			0.00182	0.00595	1.04	09/17/2018 13:33	WG1166945
trans-1,4-Dichloro-2-butene	U			0.00167	0.00595	1.04	09/17/2018 13:33	WG1166945
2,2-Dichloropropane	U			0.000945	0.00298	1.04	09/17/2018 13:33	WG1166945
Di-isopropyl ether	U			0.000417	0.00119	1.04	09/17/2018 13:33	WG1166945
Ethylbenzene	0.00186	J	J	0.000631	0.00298	1.04	09/17/2018 13:33	WG1166945
Hexachloro-1,3-butadiene	U			0.0151	0.0298	1.04	09/17/2018 13:33	WG1166945
2-Hexanone	U			0.0119	0.0298	1.04	09/17/2018 13:33	WG1166945
n-Hexane	U		J4	0.00126	0.00595	1.04	09/17/2018 13:33	WG1166945
Iodomethane	U	UJ	J4	0.720	1.49	104	09/17/2018 15:38	WG1167356
Isopropylbenzene	0.00133	J	J	0.00103	0.00298	1.04	09/17/2018 13:33	WG1166945
p-Isopropyltoluene	0.00285	J	J	0.00277	0.00595	1.04	09/17/2018 13:33	WG1166945
2-Butanone (MEK)	0.0508			0.0149	0.0298	1.04	09/17/2018 13:33	WG1166945
Methylene Chloride	U			0.00790	0.0298	1.04	09/17/2018 13:33	WG1166945
4-Methyl-2-pentanone (MIBK)	U			0.0119	0.0298	1.04	09/17/2018 13:33	WG1166945

JC 10/19/18

IW-24C-55
Collected date/time: 09/07/18 14:20

SAMPLE RESULTS - 07

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1.04	09/17/2018 13:33	WG1166945
Naphthalene	0.00586 J	J	0.00371	0.0149	1.04	09/17/2018 13:33	WG1166945
n-Propylbenzene	0.00290 J	J	0.00141	0.00595	1.04	09/17/2018 13:33	WG1166945
Styrene	U		0.00325	0.0149	1.04	09/17/2018 13:33	WG1166945
1,1,1,2-Tetrachloroethane	U		0.000595	0.00298	1.04	09/17/2018 13:33	WG1166945
1,1,2,2-Tetrachloroethane	U	J4	0.000465	0.00298	1.04	09/17/2018 13:33	WG1166945
1,1,2-Trichlorotrifluoroethane	U		0.000804	0.00298	1.04	09/17/2018 13:33	WG1166945
Tetrachloroethene	140		0.0834	0.298	104	09/17/2018 15:38	WG1167356
Toluene	0.00382 J	J	0.00149	0.00595	1.04	09/17/2018 13:33	WG1166945
1,2,3-Trichlorobenzene	U		0.000744	0.00298	1.04	09/17/2018 13:33	WG1166945
1,2,4-Trichlorobenzene	U		0.00574	0.0149	1.04	09/17/2018 13:33	WG1166945
1,1,1-Trichloroethane	U	J4	0.000327	0.00298	1.04	09/17/2018 13:33	WG1166945
1,1,2-Trichloroethane	U		0.00105	0.00298	1.04	09/17/2018 13:33	WG1166945
Trichloroethene	0.882		0.000476	0.00119	1.04	09/17/2018 13:33	WG1166945
Trichlorofluoromethane	U		0.000595	0.00298	1.04	09/17/2018 13:33	WG1166945
1,2,3-Trichloropropane	U		0.00607	0.0149	1.04	09/17/2018 13:33	WG1166945
1,2,4-Trimethylbenzene	0.0250		0.00139	0.00595	1.04	09/17/2018 13:33	WG1166945
1,2,3-Trimethylbenzene	0.00905		0.00137	0.00595	1.04	09/17/2018 13:33	WG1166945
1,3,5-Trimethylbenzene	0.00869		0.00128	0.00595	1.04	09/17/2018 13:33	WG1166945
Vinyl acetate	U		0.00419	0.0149	1.04	09/17/2018 13:33	WG1166945
Vinyl chloride	U		0.000813	0.00298	1.04	09/17/2018 13:33	WG1166945
Xylenes, Total	0.00785		0.00569	0.00774	1.04	09/17/2018 13:33	WG1166945
(S) Toluene-d8	*107*			*75.0-131*		*09/17/2018 13:33*	WG1166945
(S) Toluene-d8	*111*			*75.0-131*		*09/17/2018 15:38*	WG1167356
(S) Dibromofluoromethane	*116*			*65.0-129*		*09/17/2018 13:33*	WG1166945
(S) Dibromofluoromethane	*102*			*65.0-129*		*09/17/2018 15:38*	WG1167356
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/17/2018 13:33*	WG1166945
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*09/17/2018 15:38*	WG1167356

Sample Narrative:

L1024338-07 WG1166945, WG1167356: Not all analytes reportable at lower dilution.

L1024338-07 WG1166945, WG1167356: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.29	J	1.05	25.0	1	09/13/2018 01:50	WG1164809
Acrylonitrile	U		0.873	5.00	1	09/13/2018 01:50	WG1164809
Benzene	U		0.0896	0.500	1	09/13/2018 01:50	WG1164809
Bromobenzene	U		0.133	0.500	1	09/13/2018 01:50	WG1164809
Bromodichloromethane	U		0.0800	0.500	1	09/13/2018 01:50	WG1164809
Bromochloromethane	U		0.145	0.500	1	09/13/2018 01:50	WG1164809
Bromoform	U		0.186	0.500	1	09/13/2018 01:50	WG1164809
Bromomethane	U	UJ J0	0.157	2.50	1	09/13/2018 01:50	WG1164809
n-Butylbenzene	U		0.143	0.500	1	09/13/2018 01:50	WG1164809
sec-Butylbenzene	U		0.134	0.500	1	09/13/2018 01:50	WG1164809
tert-Butylbenzene	U		0.183	0.500	1	09/13/2018 01:50	WG1164809
Carbon disulfide	U		0.101	0.500	1	09/13/2018 01:50	WG1164809
Carbon tetrachloride	U		0.159	0.500	1	09/13/2018 01:50	WG1164809
Chlorobenzene	U		0.140	0.500	1	09/13/2018 01:50	WG1164809
Chlorodibromomethane	U		0.128	0.500	1	09/13/2018 01:50	WG1164809
Chloroethane	U		0.141	2.50	1	09/13/2018 01:50	WG1164809
Chloroform	U		0.0860	0.500	1	09/13/2018 01:50	WG1164809
Chloromethane	U		0.153	1.25	1	09/13/2018 01:50	WG1164809
2-Chlorotoluene	U		0.111	0.500	1	09/13/2018 01:50	WG1164809
4-Chlorotoluene	U		0.0972	0.500	1	09/13/2018 01:50	WG1164809
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/13/2018 01:50	WG1164809
1,2-Dibromoethane	U		0.193	0.500	1	09/13/2018 01:50	WG1164809
Dibromomethane	U		0.117	0.500	1	09/13/2018 01:50	WG1164809
1,2-Dichlorobenzene	U		0.101	0.500	1	09/13/2018 01:50	WG1164809
1,3-Dichlorobenzene	U		0.130	0.500	1	09/13/2018 01:50	WG1164809
1,4-Dichlorobenzene	U		0.121	0.500	1	09/13/2018 01:50	WG1164809
Dichlorodifluoromethane	U		0.127	2.50	1	09/13/2018 01:50	WG1164809
1,1-Dichloroethane	U		0.114	0.500	1	09/13/2018 01:50	WG1164809
1,2-Dichloroethane	U		0.108	0.500	1	09/13/2018 01:50	WG1164809
1,1-Dichloroethene	U		0.188	0.500	1	09/13/2018 01:50	WG1164809
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/13/2018 01:50	WG1164809
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/13/2018 01:50	WG1164809
1,2-Dichloropropane	U		0.190	0.500	1	09/13/2018 01:50	WG1164809
1,1-Dichloropropene	U		0.128	0.500	1	09/13/2018 01:50	WG1164809
1,3-Dichloropropane	U		0.147	1.00	1	09/13/2018 01:50	WG1164809
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/13/2018 01:50	WG1164809
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/13/2018 01:50	WG1164809
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	09/13/2018 01:50	WG1164809
2,2-Dichloropropane	U		0.0929	0.500	1	09/13/2018 01:50	WG1164809
Di-isopropyl ether	U		0.0924	0.500	1	09/13/2018 01:50	WG1164809
Ethylbenzene	U		0.158	0.500	1	09/13/2018 01:50	WG1164809
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/13/2018 01:50	WG1164809
2-Hexanone	U		0.757	5.00	1	09/13/2018 01:50	WG1164809
n-Hexane	U		0.305	5.00	1	09/13/2018 01:50	WG1164809
Iodomethane	U	UJ J0	0.377	10.0	1	09/13/2018 01:50	WG1164809
Isopropylbenzene	U		0.126	0.500	1	09/13/2018 01:50	WG1164809
p-Isopropyltoluene	U		0.138	0.500	1	09/13/2018 01:50	WG1164809
2-Butanone (MEK)	U		1.28	5.00	1	09/13/2018 01:50	WG1164809
Methylene Chloride	U		1.07	2.50	1	09/13/2018 01:50	WG1164809
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/13/2018 01:50	WG1164809
Methyl tert-butyl ether	U		0.102	0.500	1	09/13/2018 01:50	WG1164809
Naphthalene	U		0.174	2.50	1	09/13/2018 01:50	WG1164809
n-Propylbenzene	U		0.162	0.500	1	09/13/2018 01:50	WG1164809
Styrene	U		0.117	0.500	1	09/13/2018 01:50	WG1164809
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/13/2018 01:50	WG1164809
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/13/2018 01:50	WG1164809

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/13/2018 01:50	WG1164809
Tetrachloroethene	U		0.199	0.500	1	09/13/2018 01:50	WG1164809
Toluene	U		0.412	0.500	1	09/13/2018 01:50	WG1164809
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/13/2018 01:50	WG1164809
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/13/2018 01:50	WG1164809
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/13/2018 01:50	WG1164809
1,1,2-Trichloroethane	U		0.186	0.500	1	09/13/2018 01:50	WG1164809
Trichloroethene	U		0.153	0.500	1	09/13/2018 01:50	WG1164809
Trichlorofluoromethane	U		0.130	2.50	1	09/13/2018 01:50	WG1164809
1,2,3-Trichloropropane	U		0.247	2.50	1	09/13/2018 01:50	WG1164809
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/13/2018 01:50	WG1164809
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/13/2018 01:50	WG1164809
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/13/2018 01:50	WG1164809
Vinyl acetate	U UJ	J0	0.645	5.00	1	09/13/2018 01:50	WG1164809
Vinyl chloride	U		0.118	0.500	1	09/13/2018 01:50	WG1164809
Xylenes, Total	U		0.316	1.50	1	09/13/2018 01:50	WG1164809
(S) Toluene-d8	*107*			*80.0-120*		*09/13/2018 01:50*	WG1164809
(S) Dibromofluoromethane	*92.9*			*75.0-120*		*09/13/2018 01:50*	WG1164809
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*09/13/2018 01:50*	WG1164809

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.9		1	09/18/2018 10:05	WG1166857

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0169	0.0309	1	09/20/2018 18:29	WG1168763
Acrylonitrile	U		0.00235	0.0155	1	09/20/2018 18:29	WG1168763
Benzene	U		0.000495	0.00124	1	09/20/2018 18:29	WG1168763
Bromobenzene	U		0.00130	0.0155	1	09/20/2018 18:29	WG1168763
Bromodichloromethane	U		0.390	1.24	400	09/21/2018 14:38	WG1169487
Bromochloromethane	U		0.00140	0.00618	1	09/20/2018 18:29	WG1168763
Bromoform	U		0.00740	0.0309	1	09/20/2018 18:29	WG1168763
Bromomethane	U		1.83	6.18	400	09/21/2018 14:38	WG1169487
n-Butylbenzene	0.00916 J	J	0.00475	0.0155	1	09/20/2018 18:29	WG1168763
sec-Butylbenzene	0.00315 J	J	0.00313	0.0155	1	09/20/2018 18:29	WG1168763
tert-Butylbenzene	U		0.00192	0.00618	1	09/20/2018 18:29	WG1168763
Carbon disulfide	U		0.00502	0.0155	1	09/20/2018 18:29	WG1168763
Carbon tetrachloride	U		0.00134	0.00618	1	09/20/2018 18:29	WG1168763
Chlorobenzene	U		0.000709	0.00309	1	09/20/2018 18:29	WG1168763
Chlorodibromomethane	U		0.000557	0.00309	1	09/20/2018 18:29	WG1168763
Chloroethane	U		0.00134	0.00618	1	09/20/2018 18:29	WG1168763
Chloroform	U		0.000513	0.00309	1	09/20/2018 18:29	WG1168763
Chloromethane	U		0.00172	0.0155	1	09/20/2018 18:29	WG1168763
2-Chlorotoluene	U		0.00114	0.00309	1	09/20/2018 18:29	WG1168763
4-Chlorotoluene	U		0.00140	0.00618	1	09/20/2018 18:29	WG1168763
1,2-Dibromo-3-Chloropropane	U		0.00631	0.0309	1	09/20/2018 18:29	WG1168763
1,2-Dibromoethane	U		0.000649	0.00309	1	09/20/2018 18:29	WG1168763
Dibromomethane	U		0.00124	0.00618	1	09/20/2018 18:29	WG1168763
1,2-Dichlorobenzene	U		0.00179	0.00618	1	09/20/2018 18:29	WG1168763
1,3-Dichlorobenzene	U		0.00210	0.00618	1	09/20/2018 18:29	WG1168763
1,4-Dichlorobenzene	U UJ	J4	0.00244	0.00618	1	09/20/2018 18:29	WG1168763
Dichlorodifluoromethane	U		0.00101	0.00309	1	09/20/2018 18:29	WG1168763
1,1-Dichloroethane	U		0.000711	0.00309	1	09/20/2018 18:29	WG1168763
1,2-Dichloroethane	U		0.000587	0.00309	1	09/20/2018 18:29	WG1168763
1,1-Dichloroethene	0.0130		0.000618	0.00309	1	09/20/2018 18:29	WG1168763
cis-1,2-Dichloroethene	2.18		0.341	1.24	400	09/21/2018 14:38	WG1169487
trans-1,2-Dichloroethene	0.0248		0.00177	0.00618	1	09/20/2018 18:29	WG1168763
1,2-Dichloropropane	U		0.00157	0.00618	1	09/20/2018 18:29	WG1168763
1,1-Dichloropropene	U		0.000866	0.00309	1	09/20/2018 18:29	WG1168763
1,3-Dichloropropane	U		0.00216	0.00618	1	09/20/2018 18:29	WG1168763
cis-1,3-Dichloropropene	U	J4	0.000839	0.00309	1	09/20/2018 18:29	WG1168763
trans-1,3-Dichloropropene	U		0.00189	0.00618	1	09/20/2018 18:29	WG1168763
trans-1,4-Dichloro-2-butene	U		0.00173	0.00618	1	09/20/2018 18:29	WG1168763
2,2-Dichloropropane	U		0.000981	0.00309	1	09/20/2018 18:29	WG1168763
Di-isopropyl ether	U		0.000433	0.00124	1	09/20/2018 18:29	WG1168763
Ethylbenzene	U		0.262	1.24	400	09/21/2018 14:38	WG1169487
Hexachloro-1,3-butadiene	U		0.0157	0.0309	1	09/20/2018 18:29	WG1168763
2-Hexanone	U		0.0124	0.0309	1	09/20/2018 18:29	WG1168763
n-Hexane	0.00438 J	J	0.00131	0.00618	1	09/20/2018 18:29	WG1168763
Iodomethane	U		0.00748	0.0155	1	09/20/2018 18:29	WG1168763
Isopropylbenzene	0.00161 J	J	0.00107	0.00309	1	09/20/2018 18:29	WG1168763
p-Isopropyltoluene	0.00325 J	J	0.00288	0.00618	1	09/20/2018 18:29	WG1168763
2-Butanone (MEK)	U		0.0155	0.0309	1	09/20/2018 18:29	WG1168763
Methylene Chloride	0.00907 U	B J	0.00821	0.0309	1	09/20/2018 18:29	WG1168763
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0309	1	09/20/2018 18:29	WG1168763

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000365	0.00124	1	09/20/2018 18:29	WG1168763
Naphthalene	0.00746 J	J	0.00386	0.0155	1	09/20/2018 18:29	WG1168763
n-Propylbenzene	0.00663		0.00146	0.00618	1	09/20/2018 18:29	WG1168763
Styrene	U UJ	J0 J4	0.00338	0.0155	1	09/20/2018 18:29	WG1168763
1,1,1,2-Tetrachloroethane	U		0.000618	0.00309	1	09/20/2018 18:29	WG1168763
1,1,2,2-Tetrachloroethane	U	J4	0.000482	0.00309	1	09/20/2018 18:29	WG1168763
1,1,2-Trichlorotrifluoroethane	U		0.000835	0.00309	1	09/20/2018 18:29	WG1168763
Tetrachloroethene	210		0.346	1.24	400	09/21/2018 14:38	WG1169487
Toluene	U		0.618	2.47	400	09/21/2018 14:38	WG1169487
1,2,3-Trichlorobenzene	U		0.000773	0.00309	1	09/20/2018 18:29	WG1168763
1,2,4-Trichlorobenzene	U		0.00596	0.0155	1	09/20/2018 18:29	WG1168763
1,1,1-Trichloroethane	U		0.000340	0.00309	1	09/20/2018 18:29	WG1168763
1,1,2-Trichloroethane	U		0.00109	0.00309	1	09/20/2018 18:29	WG1168763
Trichloroethene	1.54		0.198	0.495	400	09/21/2018 14:38	WG1169487
Trichlorofluoromethane	U		0.000618	0.00309	1	09/20/2018 18:29	WG1168763
1,2,3-Trichloropropane	U		0.00631	0.0155	1	09/20/2018 18:29	WG1168763
1,2,4-Trimethylbenzene	0.0427		0.00143	0.00618	1	09/20/2018 18:29	WG1168763
1,2,3-Trimethylbenzene	0.0149		0.00142	0.00618	1	09/20/2018 18:29	WG1168763
1,3,5-Trimethylbenzene	0.0148		0.00134	0.00618	1	09/20/2018 18:29	WG1168763
Vinyl acetate	U		0.00435	0.0155	1	09/20/2018 18:29	WG1168763
Vinyl chloride	U		0.000845	0.00309	1	09/20/2018 18:29	WG1168763
Xylenes, Total	0.0121		0.00591	0.00804	1	09/20/2018 18:29	WG1168763
(S) Toluene-d8	*114*			*75.0-131*		*09/20/2018 18:29*	WG1168763
(S) Toluene-d8	*101*			*75.0-131*		*09/21/2018 14:38*	WG1169487
(S) Dibromofluoromethane	*91.9*			*65.0-129*		*09/20/2018 18:29*	WG1168763
(S) Dibromofluoromethane	*103*			*65.0-129*		*09/21/2018 14:38*	WG1169487
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*09/20/2018 18:29*	WG1168763
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*09/21/2018 14:38*	WG1169487

Sample Narrative:

L1025469-01 WG1168763, WG1169487: Not all compounds reportable from 1x dilution.

L1025469-01 WG1168763, WG1169487: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.4		1	09/18/2018 10:05	WG1166857

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0164	0.0299	1.08	09/20/2018 18:52	WG1168763
Acrylonitrile	U		0.00227	0.0149	1.08	09/20/2018 18:52	WG1168763
Benzene	U		0.000478	0.00120	1.08	09/20/2018 18:52	WG1168763
Bromobenzene	U		0.00125	0.0149	1.08	09/20/2018 18:52	WG1168763
Bromodichloromethane	U		0.376	1.20	432	09/21/2018 14:58	WG1169487
Bromochloromethane	U		0.00135	0.00598	1.08	09/20/2018 18:52	WG1168763
Bromoform	U		0.00715	0.0299	1.08	09/20/2018 18:52	WG1168763
Bromomethane	U		1.77	5.98	432	09/21/2018 14:58	WG1169487
n-Butylbenzene	0.00998 J	J	0.00459	0.0149	1.08	09/20/2018 18:52	WG1168763
sec-Butylbenzene	0.00336 J	J	0.00302	0.0149	1.08	09/20/2018 18:52	WG1168763
tert-Butylbenzene	U		0.00185	0.00598	1.08	09/20/2018 18:52	WG1168763
Carbon disulfide	U		0.00485	0.0149	1.08	09/20/2018 18:52	WG1168763
Carbon tetrachloride	U		0.00129	0.00598	1.08	09/20/2018 18:52	WG1168763
Chlorobenzene	U		0.000685	0.00299	1.08	09/20/2018 18:52	WG1168763
Chlorodibromomethane	U		0.000538	0.00299	1.08	09/20/2018 18:52	WG1168763
Chloroethane	U		0.00129	0.00598	1.08	09/20/2018 18:52	WG1168763
Chloroform	U		0.000496	0.00299	1.08	09/20/2018 18:52	WG1168763
Chloromethane	U		0.00166	0.0149	1.08	09/20/2018 18:52	WG1168763
2-Chlorotoluene	U		0.00110	0.00299	1.08	09/20/2018 18:52	WG1168763
4-Chlorotoluene	U		0.00135	0.00598	1.08	09/20/2018 18:52	WG1168763
1,2-Dibromo-3-Chloropropane	U		0.00610	0.0299	1.08	09/20/2018 18:52	WG1168763
1,2-Dibromoethane	U		0.000628	0.00299	1.08	09/20/2018 18:52	WG1168763
Dibromomethane	U		0.00120	0.00598	1.08	09/20/2018 18:52	WG1168763
1,2-Dichlorobenzene	U		0.00174	0.00598	1.08	09/20/2018 18:52	WG1168763
1,3-Dichlorobenzene	U		0.00204	0.00598	1.08	09/20/2018 18:52	WG1168763
1,4-Dichlorobenzene	U UJ	J4	0.00236	0.00598	1.08	09/20/2018 18:52	WG1168763
Dichlorodifluoromethane	U		0.000977	0.00299	1.08	09/20/2018 18:52	WG1168763
1,1-Dichloroethane	U		0.000687	0.00299	1.08	09/20/2018 18:52	WG1168763
1,2-Dichloroethane	U		0.000568	0.00299	1.08	09/20/2018 18:52	WG1168763
1,1-Dichloroethene	0.0198		0.000598	0.00299	1.08	09/20/2018 18:52	WG1168763
cis-1,2-Dichloroethene	2.62		0.330	1.20	432	09/21/2018 14:58	WG1169487
trans-1,2-Dichloroethene	0.0228		0.00170	0.00598	1.08	09/20/2018 18:52	WG1168763
1,2-Dichloropropane	U		0.00152	0.00598	1.08	09/20/2018 18:52	WG1168763
1,1-Dichloropropene	U		0.000837	0.00299	1.08	09/20/2018 18:52	WG1168763
1,3-Dichloropropane	U		0.00209	0.00598	1.08	09/20/2018 18:52	WG1168763
cis-1,3-Dichloropropene	U	J4	0.000810	0.00299	1.08	09/20/2018 18:52	WG1168763
trans-1,3-Dichloropropene	U		0.00183	0.00598	1.08	09/20/2018 18:52	WG1168763
trans-1,4-Dichloro-2-butene	U		0.00167	0.00598	1.08	09/20/2018 18:52	WG1168763
2,2-Dichloropropane	U		0.000947	0.00299	1.08	09/20/2018 18:52	WG1168763
Di-isopropyl ether	U		0.000418	0.00120	1.08	09/20/2018 18:52	WG1168763
Ethylbenzene	U		0.253	1.20	432	09/21/2018 14:58	WG1169487
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1.08	09/20/2018 18:52	WG1168763
2-Hexanone	U		0.0120	0.0299	1.08	09/20/2018 18:52	WG1168763
n-Hexane	U		0.00126	0.00598	1.08	09/20/2018 18:52	WG1168763
Iodomethane	U		0.00723	0.0149	1.08	09/20/2018 18:52	WG1168763
Isopropylbenzene	0.00149 J	J	0.00103	0.00299	1.08	09/20/2018 18:52	WG1168763
p-Isopropyltoluene	U		0.00279	0.00598	1.08	09/20/2018 18:52	WG1168763
2-Butanone (MEK)	U		0.0149	0.0299	1.08	09/20/2018 18:52	WG1168763
Methylene Chloride	0.0112 U	B J	0.00794	0.0299	1.08	09/20/2018 18:52	WG1168763
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1.08	09/20/2018 18:52	WG1168763

JC 10/19/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000353	0.00120	1.08	09/20/2018 18:52	WG1168763
Naphthalene	0.00881	J	J	0.00373	0.0149	1.08	09/20/2018 18:52	WG1168763
n-Propylbenzene	0.00761			0.00141	0.00598	1.08	09/20/2018 18:52	WG1168763
Styrene	U	UJ	J0 J4	0.00326	0.0149	1.08	09/20/2018 18:52	WG1168763
1,1,1,2-Tetrachloroethane	U			0.000598	0.00299	1.08	09/20/2018 18:52	WG1168763
1,1,2,2-Tetrachloroethane	U		J4	0.000466	0.00299	1.08	09/20/2018 18:52	WG1168763
1,1,2-Trichlorotrifluoroethane	U			0.000807	0.00299	1.08	09/20/2018 18:52	WG1168763
Tetrachloroethene	309			0.334	1.20	432	09/21/2018 14:58	WG1169487
Toluene	U			0.598	2.39	432	09/21/2018 14:58	WG1169487
1,2,3-Trichlorobenzene	U			0.000747	0.00299	1.08	09/20/2018 18:52	WG1168763
1,2,4-Trichlorobenzene	U			0.00576	0.0149	1.08	09/20/2018 18:52	WG1168763
1,1,1-Trichloroethane	U			0.000329	0.00299	1.08	09/20/2018 18:52	WG1168763
1,1,2-Trichloroethane	U			0.00106	0.00299	1.08	09/20/2018 18:52	WG1168763
Trichloroethene	2.12			0.191	0.478	432	09/21/2018 14:58	WG1169487
Trichlorofluoromethane	U			0.000598	0.00299	1.08	09/20/2018 18:52	WG1168763
1,2,3-Trichloropropane	U			0.00610	0.0149	1.08	09/20/2018 18:52	WG1168763
1,2,4-Trimethylbenzene	0.0481			0.00138	0.00598	1.08	09/20/2018 18:52	WG1168763
1,2,3-Trimethylbenzene	0.0159			0.00137	0.00598	1.08	09/20/2018 18:52	WG1168763
1,3,5-Trimethylbenzene	0.0170			0.00129	0.00598	1.08	09/20/2018 18:52	WG1168763
Vinyl acetate	U			0.00421	0.0149	1.08	09/20/2018 18:52	WG1168763
Vinyl chloride	U			0.000817	0.00299	1.08	09/20/2018 18:52	WG1168763
Xylenes, Total	0.0127			0.00571	0.00777	1.08	09/20/2018 18:52	WG1168763
(S) Toluene-d8	*114*				*75.0-131*		*09/20/2018 18:52*	WG1168763
(S) Toluene-d8	*109*				*75.0-131*		*09/21/2018 14:58*	WG1169487
(S) Dibromofluoromethane	*92.3*				*65.0-129*		*09/20/2018 18:52*	WG1168763
(S) Dibromofluoromethane	*103*				*65.0-129*		*09/21/2018 14:58*	WG1169487
(S) 4-Bromofluorobenzene	*102*				*67.0-138*		*09/20/2018 18:52*	WG1168763
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*09/21/2018 14:58*	WG1169487

Sample Narrative:

L1025469-02 WG1168763, WG1169487: Not all compounds reportable from 1x dilution.

L1025469-02 WG1168763, WG1169487: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.4		1	09/18/2018 10:05	WG1166857

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0152	0.0277	1	09/20/2018 01:04	WG1168529
Acrylonitrile	U			0.00210	0.0138	1	09/20/2018 01:04	WG1168529
Benzene	U			0.000442	0.00111	1	09/20/2018 01:04	WG1168529
Bromobenzene	U			0.00116	0.0138	1	09/20/2018 01:04	WG1168529
Bromodichloromethane	U			0.000872	0.00277	1	09/20/2018 01:04	WG1168529
Bromochloromethane	U			0.00125	0.00553	1	09/20/2018 01:04	WG1168529
Bromoform	U			0.00661	0.0277	1	09/20/2018 01:04	WG1168529
Bromomethane	U			0.00409	0.0138	1	09/20/2018 01:04	WG1168529
n-Butylbenzene	U			0.00425	0.0138	1	09/20/2018 01:04	WG1168529
sec-Butylbenzene	U			0.00280	0.0138	1	09/20/2018 01:04	WG1168529
tert-Butylbenzene	U			0.00171	0.00553	1	09/20/2018 01:04	WG1168529
Carbon disulfide	U			0.00449	0.0138	1	09/20/2018 01:04	WG1168529
Carbon tetrachloride	U			0.00119	0.00553	1	09/20/2018 01:04	WG1168529
Chlorobenzene	U			0.000634	0.00277	1	09/20/2018 01:04	WG1168529
Chlorodibromomethane	0.000680	J	J	0.000498	0.00277	1	09/20/2018 01:04	WG1168529
Chloroethane	U			0.00119	0.00553	1	09/20/2018 01:04	WG1168529
Chloroform	U			0.000459	0.00277	1	09/20/2018 01:04	WG1168529
Chloromethane	U			0.00154	0.0138	1	09/20/2018 01:04	WG1168529
2-Chlorotoluene	U			0.00102	0.00277	1	09/20/2018 01:04	WG1168529
4-Chlorotoluene	U			0.00125	0.00553	1	09/20/2018 01:04	WG1168529
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00564	0.0277	1	09/20/2018 01:04	WG1168529
1,2-Dibromoethane	U			0.000581	0.00277	1	09/20/2018 01:04	WG1168529
Dibromomethane	U			0.00111	0.00553	1	09/20/2018 01:04	WG1168529
1,2-Dichlorobenzene	U			0.00160	0.00553	1	09/20/2018 01:04	WG1168529
1,3-Dichlorobenzene	U			0.00188	0.00553	1	09/20/2018 01:04	WG1168529
1,4-Dichlorobenzene	U			0.00218	0.00553	1	09/20/2018 01:04	WG1168529
Dichlorodifluoromethane	U			0.000905	0.00277	1	09/20/2018 01:04	WG1168529
1,1-Dichloroethane	U			0.000636	0.00277	1	09/20/2018 01:04	WG1168529
1,2-Dichloroethane	U			0.000525	0.00277	1	09/20/2018 01:04	WG1168529
1,1-Dichloroethene	U			0.000553	0.00277	1	09/20/2018 01:04	WG1168529
cis-1,2-Dichloroethene	0.699			0.000763	0.00277	1	09/20/2018 01:04	WG1168529
trans-1,2-Dichloroethene	0.00418	J	J J0	0.00158	0.00553	1	09/20/2018 01:04	WG1168529
1,2-Dichloropropane	U			0.0281	0.111	20	09/20/2018 17:33	WG1168808
1,1-Dichloropropene	U			0.000774	0.00277	1	09/20/2018 01:04	WG1168529
1,3-Dichloropropane	U			0.00194	0.00553	1	09/20/2018 01:04	WG1168529
cis-1,3-Dichloropropene	U			0.000750	0.00277	1	09/20/2018 01:04	WG1168529
trans-1,3-Dichloropropene	U	UJ	J0 J4	0.00169	0.00553	1	09/20/2018 01:04	WG1168529
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.00155	0.00553	1	09/20/2018 01:04	WG1168529
2,2-Dichloropropane	0.00144	J	J J0	0.000877	0.00277	1	09/20/2018 01:04	WG1168529
Di-isopropyl ether	U			0.000387	0.00111	1	09/20/2018 01:04	WG1168529
Ethylbenzene	U			0.000586	0.00277	1	09/20/2018 01:04	WG1168529
Hexachloro-1,3-butadiene	U			0.0140	0.0277	1	09/20/2018 01:04	WG1168529
2-Hexanone	U			0.0111	0.0277	1	09/20/2018 01:04	WG1168529
n-Hexane	U		J4	0.0234	0.111	20	09/20/2018 17:33	WG1168808
Iodomethane	U			0.00669	0.0138	1	09/20/2018 01:04	WG1168529
Isopropylbenzene	U			0.000955	0.00277	1	09/20/2018 01:04	WG1168529
p-Isopropyltoluene	U	UJ	J4	0.00258	0.00553	1	09/20/2018 01:04	WG1168529
2-Butanone (MEK)	U			0.277	0.553	20	09/20/2018 17:33	WG1168808
Methylene Chloride	U			0.00734	0.0277	1	09/20/2018 01:04	WG1168529
4-Methyl-2-pentanone (MIBK)	U			0.0111	0.0277	1	09/20/2018 01:04	WG1168529

JC 10/19/18

IW-24C-80

Collected date/time: 09/10/18 11:00

SAMPLE RESULTS - 03

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000326	0.00111	1	09/20/2018 01:04	WG1168529
Naphthalene	U			0.00345	0.0138	1	09/20/2018 01:04	WG1168529
n-Propylbenzene	U			0.00131	0.00553	1	09/20/2018 01:04	WG1168529
Styrene	U	UJ	J4	0.0604	0.277	20	09/20/2018 17:33	WG1168808
1,1,1,2-Tetrachloroethane	U	UJ	J0 J4	0.000553	0.00277	1	09/20/2018 01:04	WG1168529
1,1,2,2-Tetrachloroethane	U			0.000431	0.00277	1	09/20/2018 01:04	WG1168529
1,1,2-Trichlorotrifluoroethane	U			0.000747	0.00277	1	09/20/2018 01:04	WG1168529
Tetrachloroethene	12.3			0.0155	0.0553	20	09/20/2018 17:33	WG1168808
Toluene	0.00148	J	J	0.00138	0.00553	1	09/20/2018 01:04	WG1168529
1,2,3-Trichlorobenzene	U			0.000691	0.00277	1	09/20/2018 01:04	WG1168529
1,2,4-Trichlorobenzene	U			0.00533	0.0138	1	09/20/2018 01:04	WG1168529
1,1,1-Trichloroethane	U			0.000304	0.00277	1	09/20/2018 01:04	WG1168529
1,1,2-Trichloroethane	U			0.000977	0.00277	1	09/20/2018 01:04	WG1168529
Trichloroethene	0.128			0.000442	0.00111	1	09/20/2018 01:04	WG1168529
Trichlorofluoromethane	U			0.000553	0.00277	1	09/20/2018 01:04	WG1168529
1,2,3-Trichloropropane	U			0.00564	0.0138	1	09/20/2018 01:04	WG1168529
1,2,4-Trimethylbenzene	0.00194	J	J	0.00128	0.00553	1	09/20/2018 01:04	WG1168529
1,2,3-Trimethylbenzene	U			0.00127	0.00553	1	09/20/2018 01:04	WG1168529
1,3,5-Trimethylbenzene	U			0.00119	0.00553	1	09/20/2018 01:04	WG1168529
Vinyl acetate	U	UJ	J0	0.00389	0.0138	1	09/20/2018 01:04	WG1168529
Vinyl chloride	0.0312			0.000755	0.00277	1	09/20/2018 01:04	WG1168529
Xylenes, Total	U			0.00529	0.00719	1	09/20/2018 01:04	WG1168529
(S) Toluene-d8	*103*				*75.0-131*		*09/20/2018 01:04*	WG1168529
(S) Toluene-d8	*107*				*75.0-131*		*09/20/2018 17:33*	WG1168808
(S) Dibromofluoromethane	*105*				*65.0-129*		*09/20/2018 01:04*	WG1168529
(S) Dibromofluoromethane	*106*				*65.0-129*		*09/20/2018 17:33*	WG1168808
(S) 4-Bromofluorobenzene	*106*				*67.0-138*		*09/20/2018 01:04*	WG1168529
(S) 4-Bromofluorobenzene	*86.6*				*67.0-138*		*09/20/2018 17:33*	WG1168808

Sample Narrative:

L1025469-03 WG1168529, WG1168808: Not all compounds reportable from 1x dilution.

L1025469-03 WG1168529, WG1168808: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18

IW-27C-45

Collected date/time: 09/10/18 11:55

SAMPLE RESULTS - 04

L1025469

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.3		1	09/17/2018 15:11	WG1166858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0153	0.0280	1	09/20/2018 01:24	WG1168529
Acrylonitrile	U		0.00213	0.0140	1	09/20/2018 01:24	WG1168529
Benzene	U		0.000448	0.00112	1	09/20/2018 01:24	WG1168529
Bromobenzene	U		0.00118	0.0140	1	09/20/2018 01:24	WG1168529
Bromodichloromethane	U		0.000882	0.00280	1	09/20/2018 01:24	WG1168529
Bromochloromethane	U		0.00126	0.00560	1	09/20/2018 01:24	WG1168529
Bromoform	U		0.00669	0.0280	1	09/20/2018 01:24	WG1168529
Bromomethane	U		0.00414	0.0140	1	09/20/2018 01:24	WG1168529
n-Butylbenzene	U		0.00430	0.0140	1	09/20/2018 01:24	WG1168529
sec-Butylbenzene	U		0.00283	0.0140	1	09/20/2018 01:24	WG1168529
tert-Butylbenzene	U		0.00173	0.00560	1	09/20/2018 01:24	WG1168529
Carbon disulfide	U		0.00454	0.0140	1	09/20/2018 01:24	WG1168529
Carbon tetrachloride	U		0.00121	0.00560	1	09/20/2018 01:24	WG1168529
Chlorobenzene	U		0.000641	0.00280	1	09/20/2018 01:24	WG1168529
Chlorodibromomethane	U		0.000504	0.00280	1	09/20/2018 01:24	WG1168529
Chloroethane	U		0.00121	0.00560	1	09/20/2018 01:24	WG1168529
Chloroform	U		0.000465	0.00280	1	09/20/2018 01:24	WG1168529
Chloromethane	U		0.00156	0.0140	1	09/20/2018 01:24	WG1168529
2-Chlorotoluene	U		0.00103	0.00280	1	09/20/2018 01:24	WG1168529
4-Chlorotoluene	U		0.00126	0.00560	1	09/20/2018 01:24	WG1168529
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00571	0.0280	1	09/20/2018 01:24	WG1168529
1,2-Dibromoethane	U		0.000588	0.00280	1	09/20/2018 01:24	WG1168529
Dibromomethane	U		0.00112	0.00560	1	09/20/2018 01:24	WG1168529
1,2-Dichlorobenzene	U		0.00162	0.00560	1	09/20/2018 01:24	WG1168529
1,3-Dichlorobenzene	U		0.00190	0.00560	1	09/20/2018 01:24	WG1168529
1,4-Dichlorobenzene	U		0.00221	0.00560	1	09/20/2018 01:24	WG1168529
Dichlorodifluoromethane	U		0.000916	0.00280	1	09/20/2018 01:24	WG1168529
1,1-Dichloroethane	U		0.000644	0.00280	1	09/20/2018 01:24	WG1168529
1,2-Dichloroethane	U		0.000532	0.00280	1	09/20/2018 01:24	WG1168529
1,1-Dichloroethene	U		0.000560	0.00280	1	09/20/2018 01:24	WG1168529
cis-1,2-Dichloroethene	0.282		0.000772	0.00280	1	09/20/2018 01:24	WG1168529
trans-1,2-Dichloroethene	0.00239	J J J0	0.00160	0.00560	1	09/20/2018 01:24	WG1168529
1,2-Dichloropropane	U		0.0284	0.112	20	09/20/2018 17:53	WG1168808
1,1-Dichloropropene	U		0.000784	0.00280	1	09/20/2018 01:24	WG1168529
1,3-Dichloropropane	U		0.00196	0.00560	1	09/20/2018 01:24	WG1168529
cis-1,3-Dichloropropene	U		0.000759	0.00280	1	09/20/2018 01:24	WG1168529
trans-1,3-Dichloropropene	U	UJ J0 J4	0.00171	0.00560	1	09/20/2018 01:24	WG1168529
trans-1,4-Dichloro-2-butene	U	UJ J0	0.00157	0.00560	1	09/20/2018 01:24	WG1168529
2,2-Dichloropropane	U	UJ J0	0.000888	0.00280	1	09/20/2018 01:24	WG1168529
Di-isopropyl ether	U		0.000392	0.00112	1	09/20/2018 01:24	WG1168529
Ethylbenzene	U		0.000593	0.00280	1	09/20/2018 01:24	WG1168529
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	09/20/2018 01:24	WG1168529
2-Hexanone	U		0.0112	0.0280	1	09/20/2018 01:24	WG1168529
n-Hexane	U	J4	0.0237	0.112	20	09/20/2018 17:53	WG1168808
Iodomethane	U		0.00677	0.0140	1	09/20/2018 01:24	WG1168529
Isopropylbenzene	U		0.000966	0.00280	1	09/20/2018 01:24	WG1168529
p-Isopropyltoluene	U	UJ J4	0.00261	0.00560	1	09/20/2018 01:24	WG1168529
2-Butanone (MEK)	U		0.280	0.560	20	09/20/2018 17:53	WG1168808
Methylene Chloride	U		0.00743	0.0280	1	09/20/2018 01:24	WG1168529
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	09/20/2018 01:24	WG1168529

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000330	0.00112	1	09/20/2018 01:24	WG1168529
Naphthalene	U			0.00349	0.0140	1	09/20/2018 01:24	WG1168529
n-Propylbenzene	U			0.00132	0.00560	1	09/20/2018 01:24	WG1168529
Styrene	U	UJ	J4	0.0611	0.280	20	09/20/2018 17:53	WG1168808
1,1,1,2-Tetrachloroethane	U	UJ	J0 J4	0.000560	0.00280	1	09/20/2018 01:24	WG1168529
1,1,2,2-Tetrachloroethane	U			0.000437	0.00280	1	09/20/2018 01:24	WG1168529
1,1,2-Trichlorotrifluoroethane	U			0.000756	0.00280	1	09/20/2018 01:24	WG1168529
Tetrachloroethene	18.6			0.0157	0.0560	20	09/20/2018 17:53	WG1168808
Toluene	0.00223	J	J	0.00140	0.00560	1	09/20/2018 01:24	WG1168529
1,2,3-Trichlorobenzene	U			0.000700	0.00280	1	09/20/2018 01:24	WG1168529
1,2,4-Trichlorobenzene	U			0.00540	0.0140	1	09/20/2018 01:24	WG1168529
1,1,1-Trichloroethane	U			0.000308	0.00280	1	09/20/2018 01:24	WG1168529
1,1,2-Trichloroethane	U			0.000988	0.00280	1	09/20/2018 01:24	WG1168529
Trichloroethene	0.178			0.000448	0.00112	1	09/20/2018 01:24	WG1168529
Trichlorofluoromethane	U			0.000560	0.00280	1	09/20/2018 01:24	WG1168529
1,2,3-Trichloropropane	U			0.00571	0.0140	1	09/20/2018 01:24	WG1168529
1,2,4-Trimethylbenzene	0.00436	J	J	0.00130	0.00560	1	09/20/2018 01:24	WG1168529
1,2,3-Trimethylbenzene	U			0.00129	0.00560	1	09/20/2018 01:24	WG1168529
1,3,5-Trimethylbenzene	0.00144	J	J	0.00121	0.00560	1	09/20/2018 01:24	WG1168529
Vinyl acetate	U	UJ	J0	0.00394	0.0140	1	09/20/2018 01:24	WG1168529
Vinyl chloride	0.0297			0.000764	0.00280	1	09/20/2018 01:24	WG1168529
Xylenes, Total	U			0.00535	0.00728	1	09/20/2018 01:24	WG1168529
(S) Toluene-d8	*99.3*				*75.0-131*		*09/20/2018 01:24*	WG1168529
(S) Toluene-d8	*105*				*75.0-131*		*09/20/2018 17:53*	WG1168808
(S) Dibromofluoromethane	*103*				*65.0-129*		*09/20/2018 01:24*	WG1168529
(S) Dibromofluoromethane	*108*				*65.0-129*		*09/20/2018 17:53*	WG1168808
(S) 4-Bromofluorobenzene	*109*				*67.0-138*		*09/20/2018 01:24*	WG1168529
(S) 4-Bromofluorobenzene	*93.8*				*67.0-138*		*09/20/2018 17:53*	WG1168808

Sample Narrative:

L1025469-04 WG1168529, WG1168808: Not all compounds reportable from 1x dilution.

L1025469-04 WG1168529, WG1168808: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.4		1	09/17/2018 15:11	WG1166858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U			0.0144	0.0262	1	09/20/2018 01:44	WG1168529	
Acrylonitrile	U			0.00199	0.0131	1	09/20/2018 01:44	WG1168529	
Benzene	U			0.000419	0.00105	1	09/20/2018 01:44	WG1168529	
Bromobenzene	U			0.00110	0.0131	1	09/20/2018 01:44	WG1168529	
Bromodichloromethane	U			0.000826	0.00262	1	09/20/2018 01:44	WG1168529	
Bromochloromethane	U			0.00118	0.00524	1	09/20/2018 01:44	WG1168529	
Bromoform	U			0.00627	0.0262	1	09/20/2018 01:44	WG1168529	
Bromomethane	U			0.00388	0.0131	1	09/20/2018 01:44	WG1168529	
n-Butylbenzene	U			0.00402	0.0131	1	09/20/2018 01:44	WG1168529	
sec-Butylbenzene	U			0.00265	0.0131	1	09/20/2018 01:44	WG1168529	
tert-Butylbenzene	U			0.00162	0.00524	1	09/20/2018 01:44	WG1168529	
Carbon disulfide	U			0.00425	0.0131	1	09/20/2018 01:44	WG1168529	
Carbon tetrachloride	U			0.00113	0.00524	1	09/20/2018 01:44	WG1168529	
Chlorobenzene	U			0.000600	0.00262	1	09/20/2018 01:44	WG1168529	
Chlorodibromomethane	U			0.000471	0.00262	1	09/20/2018 01:44	WG1168529	
Chloroethane	0.0188			0.00113	0.00524	1	09/20/2018 01:44	WG1168529	
Chloroform	U			0.000435	0.00262	1	09/20/2018 01:44	WG1168529	
Chloromethane	U			0.00146	0.0131	1	09/20/2018 01:44	WG1168529	
2-Chlorotoluene	U			0.000964	0.00262	1	09/20/2018 01:44	WG1168529	
4-Chlorotoluene	U			0.00118	0.00524	1	09/20/2018 01:44	WG1168529	
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00534	0.0262	1	09/20/2018 01:44	WG1168529	
1,2-Dibromoethane	U			0.000550	0.00262	1	09/20/2018 01:44	WG1168529	
Dibromomethane	U			0.00105	0.00524	1	09/20/2018 01:44	WG1168529	
1,2-Dichlorobenzene	U			0.00152	0.00524	1	09/20/2018 01:44	WG1168529	
1,3-Dichlorobenzene	U			0.00178	0.00524	1	09/20/2018 01:44	WG1168529	
1,4-Dichlorobenzene	U			0.00206	0.00524	1	09/20/2018 01:44	WG1168529	
Dichlorodifluoromethane	U			0.000857	0.00262	1	09/20/2018 01:44	WG1168529	
1,1-Dichloroethane	U			0.000602	0.00262	1	09/20/2018 01:44	WG1168529	
1,2-Dichloroethane	U			0.000498	0.00262	1	09/20/2018 01:44	WG1168529	
1,1-Dichloroethene	U			0.000524	0.00262	1	09/20/2018 01:44	WG1168529	
cis-1,2-Dichloroethene	0.224			0.000723	0.00262	1	09/20/2018 01:44	WG1168529	
trans-1,2-Dichloroethene	0.00591	J	J0	0.00150	0.00524	1	09/20/2018 01:44	WG1168529	
1,2-Dichloropropane	U			0.00266	0.0105	2	09/20/2018 16:16	WG1168808	
1,1-Dichloropropene	U			0.000733	0.00262	1	09/20/2018 01:44	WG1168529	
1,3-Dichloropropane	U			0.00183	0.00524	1	09/20/2018 01:44	WG1168529	
cis-1,3-Dichloropropene	U			0.000710	0.00262	1	09/20/2018 01:44	WG1168529	
trans-1,3-Dichloropropene	U	UJ	J0 J4	0.00160	0.00524	1	09/20/2018 01:44	WG1168529	
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.00147	0.00524	1	09/20/2018 01:44	WG1168529	
2,2-Dichloropropane	0.000981	J	J J0	0.000831	0.00262	1	09/20/2018 01:44	WG1168529	
Di-isopropyl ether	U			0.000367	0.00105	1	09/20/2018 01:44	WG1168529	
Ethylbenzene	U			0.000555	0.00262	1	09/20/2018 01:44	WG1168529	
Hexachloro-1,3-butadiene	U			0.0133	0.0262	1	09/20/2018 01:44	WG1168529	
2-Hexanone	U			0.0105	0.0262	1	09/20/2018 01:44	WG1168529	
n-Hexane	0.00489	J	J J4	0.00222	0.0105	2	09/20/2018 16:16	WG1168808	
Iodomethane	U			0.00634	0.0131	1	09/20/2018 01:44	WG1168529	
Isopropylbenzene	U			0.000904	0.00262	1	09/20/2018 01:44	WG1168529	
p-Isopropyltoluene	U	UJ	J4	0.00244	0.00524	1	09/20/2018 01:44	WG1168529	
2-Butanone (MEK)	U			0.0262	0.0524	2	09/20/2018 16:16	WG1168808	
Methylene Chloride	0.0112	U	B J	0.00696	0.0262	1	09/20/2018 01:44	WG1168529	JC 10/19/18
4-Methyl-2-pentanone (MIBK)	U			0.0105	0.0262	1	09/20/2018 01:44	WG1168529	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000309	0.00105	1	09/20/2018 01:44	WG1168529
Naphthalene	U			0.00327	0.0131	1	09/20/2018 01:44	WG1168529
n-Propylbenzene	U			0.00124	0.00524	1	09/20/2018 01:44	WG1168529
Styrene	U	UJ	J0 J4	0.00572	0.0262	2	09/20/2018 16:16	WG1168808
1,1,1,2-Tetrachloroethane	U	UJ	J0 J4	0.000524	0.00262	1	09/20/2018 01:44	WG1168529
1,1,2,2-Tetrachloroethane	U			0.000409	0.00262	1	09/20/2018 01:44	WG1168529
1,1,2-Trichlorotrifluoroethane	U			0.000707	0.00262	1	09/20/2018 01:44	WG1168529
Tetrachloroethene	0.712			0.00147	0.00524	2	09/20/2018 16:16	WG1168808
Toluene	U			0.00131	0.00524	1	09/20/2018 01:44	WG1168529
1,2,3-Trichlorobenzene	U			0.000655	0.00262	1	09/20/2018 01:44	WG1168529
1,2,4-Trichlorobenzene	U			0.00505	0.0131	1	09/20/2018 01:44	WG1168529
1,1,1-Trichloroethane	U			0.000288	0.00262	1	09/20/2018 01:44	WG1168529
1,1,2-Trichloroethane	U			0.000925	0.00262	1	09/20/2018 01:44	WG1168529
Trichloroethene	0.0173			0.000419	0.00105	1	09/20/2018 01:44	WG1168529
Trichlorofluoromethane	U			0.000524	0.00262	1	09/20/2018 01:44	WG1168529
1,2,3-Trichloropropane	U			0.00534	0.0131	1	09/20/2018 01:44	WG1168529
1,2,4-Trimethylbenzene	U			0.00122	0.00524	1	09/20/2018 01:44	WG1168529
1,2,3-Trimethylbenzene	U			0.00120	0.00524	1	09/20/2018 01:44	WG1168529
1,3,5-Trimethylbenzene	U			0.00113	0.00524	1	09/20/2018 01:44	WG1168529
Vinyl acetate	U	UJ	J0	0.00369	0.0131	1	09/20/2018 01:44	WG1168529
Vinyl chloride	0.0146			0.000716	0.00262	1	09/20/2018 01:44	WG1168529
Xylenes, Total	U			0.00501	0.00681	1	09/20/2018 01:44	WG1168529
(S) Toluene-d8	*105*				*75.0-131*		*09/20/2018 01:44*	WG1168529
(S) Toluene-d8	*117*				*75.0-131*		*09/20/2018 16:16*	WG1168808
(S) Dibromofluoromethane	*103*				*65.0-129*		*09/20/2018 01:44*	WG1168529
(S) Dibromofluoromethane	*93.4*				*65.0-129*		*09/20/2018 16:16*	WG1168808
(S) 4-Bromofluorobenzene	*106*				*67.0-138*		*09/20/2018 01:44*	WG1168529
(S) 4-Bromofluorobenzene	*86.9*				*67.0-138*		*09/20/2018 16:16*	WG1168808

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	09/17/2018 15:11	WG1166858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0155	0.0282	1	09/20/2018 02:04	WG1168529	
Acrylonitrile	U		0.00215	0.0141	1	09/20/2018 02:04	WG1168529	
Benzene	U		0.000452	0.00113	1	09/20/2018 02:04	WG1168529	
Bromobenzene	U		0.00119	0.0141	1	09/20/2018 02:04	WG1168529	
Bromodichloromethane	U		0.000890	0.00282	1	09/20/2018 02:04	WG1168529	
Bromochloromethane	U		0.00128	0.00565	1	09/20/2018 02:04	WG1168529	
Bromoform	U		0.00676	0.0282	1	09/20/2018 02:04	WG1168529	
Bromomethane	U		0.00418	0.0141	1	09/20/2018 02:04	WG1168529	
n-Butylbenzene	U		0.00434	0.0141	1	09/20/2018 02:04	WG1168529	
sec-Butylbenzene	U		0.00286	0.0141	1	09/20/2018 02:04	WG1168529	
tert-Butylbenzene	U		0.00175	0.00565	1	09/20/2018 02:04	WG1168529	
Carbon disulfide	U		0.00459	0.0141	1	09/20/2018 02:04	WG1168529	
Carbon tetrachloride	U		0.00122	0.00565	1	09/20/2018 02:04	WG1168529	
Chlorobenzene	U		0.000647	0.00282	1	09/20/2018 02:04	WG1168529	
Chlorodibromomethane	U		0.000508	0.00282	1	09/20/2018 02:04	WG1168529	
Chloroethane	0.0149		0.00122	0.00565	1	09/20/2018 02:04	WG1168529	
Chloroform	U		0.000469	0.00282	1	09/20/2018 02:04	WG1168529	
Chloromethane	U		0.00157	0.0141	1	09/20/2018 02:04	WG1168529	
2-Chlorotoluene	U		0.00104	0.00282	1	09/20/2018 02:04	WG1168529	
4-Chlorotoluene	U		0.00128	0.00565	1	09/20/2018 02:04	WG1168529	
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00576	0.0282	1	09/20/2018 02:04	WG1168529	
1,2-Dibromoethane	U		0.000593	0.00282	1	09/20/2018 02:04	WG1168529	
Dibromomethane	U		0.00113	0.00565	1	09/20/2018 02:04	WG1168529	
1,2-Dichlorobenzene	U		0.00164	0.00565	1	09/20/2018 02:04	WG1168529	
1,3-Dichlorobenzene	U		0.00192	0.00565	1	09/20/2018 02:04	WG1168529	
1,4-Dichlorobenzene	U		0.00223	0.00565	1	09/20/2018 02:04	WG1168529	
Dichlorodifluoromethane	U		0.000924	0.00282	1	09/20/2018 02:04	WG1168529	
1,1-Dichloroethane	U		0.000650	0.00282	1	09/20/2018 02:04	WG1168529	
1,2-Dichloroethane	U		0.000537	0.00282	1	09/20/2018 02:04	WG1168529	
1,1-Dichloroethene	0.0365		0.000565	0.00282	1	09/20/2018 02:04	WG1168529	
cis-1,2-Dichloroethene	3.90		0.0312	0.113	40	09/20/2018 18:12	WG1168808	
trans-1,2-Dichloroethene	0.0111	UJ J0	0.00162	0.00565	1	09/20/2018 02:04	WG1168529	
1,2-Dichloropropane	U		0.0574	0.226	40	09/20/2018 18:12	WG1168808	
1,1-Dichloropropene	U		0.000791	0.00282	1	09/20/2018 02:04	WG1168529	
1,3-Dichloropropane	U		0.00198	0.00565	1	09/20/2018 02:04	WG1168529	
cis-1,3-Dichloropropene	U		0.000766	0.00282	1	09/20/2018 02:04	WG1168529	
trans-1,3-Dichloropropene	U	UJ J0 J4	0.00173	0.00565	1	09/20/2018 02:04	WG1168529	
trans-1,4-Dichloro-2-butene	U	UJ J0	0.00158	0.00565	1	09/20/2018 02:04	WG1168529	
2,2-Dichloropropane	U	UJ J0	0.000896	0.00282	1	09/20/2018 02:04	WG1168529	
Di-isopropyl ether	U		0.000395	0.00113	1	09/20/2018 02:04	WG1168529	
Ethylbenzene	0.000834	J J	0.000599	0.00282	1	09/20/2018 02:04	WG1168529	
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	09/20/2018 02:04	WG1168529	
2-Hexanone	U		0.0113	0.0282	1	09/20/2018 02:04	WG1168529	
n-Hexane	U	J4	0.0479	0.226	40	09/20/2018 18:12	WG1168808	
Iodomethane	U		0.00684	0.0141	1	09/20/2018 02:04	WG1168529	
Isopropylbenzene	U		0.000975	0.00282	1	09/20/2018 02:04	WG1168529	
p-Isopropyltoluene	U	UJ J4	0.00263	0.00565	1	09/20/2018 02:04	WG1168529	
2-Butanone (MEK)	U		0.565	1.13	40	09/20/2018 18:12	WG1168808	
Methylene Chloride	U		0.00750	0.0282	1	09/20/2018 02:04	WG1168529	JC 10/19/18
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	09/20/2018 02:04	WG1168529	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000333	0.00113	1	09/20/2018 02:04	WG1168529
Naphthalene	U			0.00353	0.0141	1	09/20/2018 02:04	WG1168529
n-Propylbenzene	0.00287	J	J	0.00133	0.00565	1	09/20/2018 02:04	WG1168529
Styrene	U	UJ	J4	0.123	0.565	40	09/20/2018 18:12	WG1168808
1,1,1,2-Tetrachloroethane	U	UJ	J0 J4	0.000565	0.00282	1	09/20/2018 02:04	WG1168529
1,1,2,2-Tetrachloroethane	U			0.000441	0.00282	1	09/20/2018 02:04	WG1168529
1,1,2-Trichlorotrifluoroethane	U			0.000763	0.00282	1	09/20/2018 02:04	WG1168529
Tetrachloroethene	56.7			0.0316	0.113	40	09/20/2018 18:12	WG1168808
Toluene	0.00389	J	J	0.00141	0.00565	1	09/20/2018 02:04	WG1168529
1,2,3-Trichlorobenzene	U			0.000706	0.00282	1	09/20/2018 02:04	WG1168529
1,2,4-Trichlorobenzene	U			0.00545	0.0141	1	09/20/2018 02:04	WG1168529
1,1,1-Trichloroethane	U			0.000311	0.00282	1	09/20/2018 02:04	WG1168529
1,1,2-Trichloroethane	U			0.000998	0.00282	1	09/20/2018 02:04	WG1168529
Trichloroethene	4.36			0.0181	0.0452	40	09/20/2018 18:12	WG1168808
Trichlorofluoromethane	U			0.000565	0.00282	1	09/20/2018 02:04	WG1168529
1,2,3-Trichloropropane	U			0.00576	0.0141	1	09/20/2018 02:04	WG1168529
1,2,4-Trimethylbenzene	0.00887			0.00131	0.00565	1	09/20/2018 02:04	WG1168529
1,2,3-Trimethylbenzene	0.00267	J	J	0.00130	0.00565	1	09/20/2018 02:04	WG1168529
1,3,5-Trimethylbenzene	0.00398	J	J	0.00122	0.00565	1	09/20/2018 02:04	WG1168529
Vinyl acetate	U	UJ	J0	0.00398	0.0141	1	09/20/2018 02:04	WG1168529
Vinyl chloride	0.0180			0.000772	0.00282	1	09/20/2018 02:04	WG1168529
Xylenes, Total	U			0.00540	0.00734	1	09/20/2018 02:04	WG1168529
(S) Toluene-d8	*106*				*75.0-131*		*09/20/2018 02:04*	WG1168529
(S) Toluene-d8	*105*				*75.0-131*		*09/20/2018 18:12*	WG1168808
(S) Dibromofluoromethane	*101*				*65.0-129*		*09/20/2018 02:04*	WG1168529
(S) Dibromofluoromethane	*110*				*65.0-129*		*09/20/2018 18:12*	WG1168808
(S) 4-Bromofluorobenzene	*108*				*67.0-138*		*09/20/2018 02:04*	WG1168529
(S) 4-Bromofluorobenzene	*83.7*				*67.0-138*		*09/20/2018 18:12*	WG1168808

Sample Narrative:

L1025469-06 WG1168529, WG1168808: Not all compounds reportable from 1x dilution.

L1025469-06 WG1168529, WG1168808: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.1		1	09/17/2018 15:11	WG1166858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0154	0.0281	1	09/20/2018 02:24	WG1168529
Acrylonitrile	U		0.00213	0.0140	1	09/20/2018 02:24	WG1168529
Benzene	U		0.000449	0.00112	1	09/20/2018 02:24	WG1168529
Bromobenzene	U		0.00118	0.0140	1	09/20/2018 02:24	WG1168529
Bromodichloromethane	U		0.000884	0.00281	1	09/20/2018 02:24	WG1168529
Bromochloromethane	U		0.00127	0.00561	1	09/20/2018 02:24	WG1168529
Bromoform	U		0.00671	0.0281	1	09/20/2018 02:24	WG1168529
Bromomethane	U		0.00415	0.0140	1	09/20/2018 02:24	WG1168529
n-Butylbenzene	U		0.00431	0.0140	1	09/20/2018 02:24	WG1168529
sec-Butylbenzene	U		0.00284	0.0140	1	09/20/2018 02:24	WG1168529
tert-Butylbenzene	U		0.00174	0.00561	1	09/20/2018 02:24	WG1168529
Carbon disulfide	U		0.00456	0.0140	1	09/20/2018 02:24	WG1168529
Carbon tetrachloride	U		0.00121	0.00561	1	09/20/2018 02:24	WG1168529
Chlorobenzene	U		0.000643	0.00281	1	09/20/2018 02:24	WG1168529
Chlorodibromomethane	U		0.000505	0.00281	1	09/20/2018 02:24	WG1168529
Chloroethane	U		0.00121	0.00561	1	09/20/2018 02:24	WG1168529
Chloroform	U		0.000466	0.00281	1	09/20/2018 02:24	WG1168529
Chloromethane	U		0.00156	0.0140	1	09/20/2018 02:24	WG1168529
2-Chlorotoluene	U		0.00103	0.00281	1	09/20/2018 02:24	WG1168529
4-Chlorotoluene	U		0.00127	0.00561	1	09/20/2018 02:24	WG1168529
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00572	0.0281	1	09/20/2018 02:24	WG1168529
1,2-Dibromoethane	U		0.000589	0.00281	1	09/20/2018 02:24	WG1168529
Dibromomethane	U		0.00112	0.00561	1	09/20/2018 02:24	WG1168529
1,2-Dichlorobenzene	U		0.00163	0.00561	1	09/20/2018 02:24	WG1168529
1,3-Dichlorobenzene	U		0.00191	0.00561	1	09/20/2018 02:24	WG1168529
1,4-Dichlorobenzene	U		0.00221	0.00561	1	09/20/2018 02:24	WG1168529
Dichlorodifluoromethane	U		0.000918	0.00281	1	09/20/2018 02:24	WG1168529
1,1-Dichloroethane	U		0.000645	0.00281	1	09/20/2018 02:24	WG1168529
1,2-Dichloroethane	U		0.000533	0.00281	1	09/20/2018 02:24	WG1168529
1,1-Dichloroethene	U		0.000561	0.00281	1	09/20/2018 02:24	WG1168529
cis-1,2-Dichloroethene	0.244		0.000774	0.00281	1	09/20/2018 16:35	WG1168808
trans-1,2-Dichloroethene	0.00171 J	J J0	0.00160	0.00561	1	09/20/2018 02:24	WG1168529
1,2-Dichloropropane	U		0.00143	0.00561	1	09/20/2018 16:35	WG1168808
1,1-Dichloropropene	U		0.000786	0.00281	1	09/20/2018 02:24	WG1168529
1,3-Dichloropropane	U		0.00196	0.00561	1	09/20/2018 02:24	WG1168529
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	09/20/2018 02:24	WG1168529
trans-1,3-Dichloropropene	U UJ	J0 J4	0.00172	0.00561	1	09/20/2018 02:24	WG1168529
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00157	0.00561	1	09/20/2018 02:24	WG1168529
2,2-Dichloropropane	U UJ	J0	0.000890	0.00281	1	09/20/2018 02:24	WG1168529
Di-isopropyl ether	U		0.000393	0.00112	1	09/20/2018 02:24	WG1168529
Ethylbenzene	U		0.000595	0.00281	1	09/20/2018 02:24	WG1168529
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	09/20/2018 02:24	WG1168529
2-Hexanone	U		0.0112	0.0281	1	09/20/2018 02:24	WG1168529
n-Hexane	0.00251 J	J J4	0.00119	0.00561	1	09/20/2018 16:35	WG1168808
Iodomethane	U		0.00679	0.0140	1	09/20/2018 02:24	WG1168529
Isopropylbenzene	U		0.000969	0.00281	1	09/20/2018 02:24	WG1168529
p-Isopropyltoluene	U UJ	J4	0.00262	0.00561	1	09/20/2018 02:24	WG1168529
2-Butanone (MEK)	U		0.0140	0.0281	1	09/20/2018 16:35	WG1168808
Methylene Chloride	0.0102 U	B J	0.00745	0.0281	1	09/20/2018 02:24	WG1168529
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	09/20/2018 02:24	WG1168529

JC 10/19/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	09/20/2018 02:24	WG1168529
Naphthalene	U		0.00350	0.0140	1	09/20/2018 02:24	WG1168529
n-Propylbenzene	U		0.00132	0.00561	1	09/20/2018 02:24	WG1168529
Styrene	U UJ	J0 J4	0.00306	0.0140	1	09/20/2018 16:35	WG1168808
1,1,1,2-Tetrachloroethane	U UJ	J0 J4	0.000561	0.00281	1	09/20/2018 02:24	WG1168529
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	09/20/2018 02:24	WG1168529
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	09/20/2018 02:24	WG1168529
Tetrachloroethene	1.60		0.000786	0.00281	1	09/20/2018 16:35	WG1168808
Toluene	0.00166 J	J	0.00140	0.00561	1	09/20/2018 02:24	WG1168529
1,2,3-Trichlorobenzene	U		0.000701	0.00281	1	09/20/2018 02:24	WG1168529
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	09/20/2018 02:24	WG1168529
1,1,1-Trichloroethane	U		0.000309	0.00281	1	09/20/2018 02:24	WG1168529
1,1,2-Trichloroethane	U		0.000991	0.00281	1	09/20/2018 02:24	WG1168529
Trichloroethene	0.100		0.000449	0.00112	1	09/20/2018 16:35	WG1168808
Trichlorofluoromethane	U		0.000561	0.00281	1	09/20/2018 02:24	WG1168529
1,2,3-Trichloropropane	U		0.00572	0.0140	1	09/20/2018 02:24	WG1168529
1,2,4-Trimethylbenzene	U		0.00130	0.00561	1	09/20/2018 02:24	WG1168529
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	09/20/2018 02:24	WG1168529
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	09/20/2018 02:24	WG1168529
Vinyl acetate	U UJ	J0	0.00395	0.0140	1	09/20/2018 02:24	WG1168529
Vinyl chloride	U		0.000767	0.00281	1	09/20/2018 02:24	WG1168529
Xylenes, Total	U		0.00536	0.00730	1	09/20/2018 02:24	WG1168529
(S) Toluene-d8	*104*			*75.0-131*		*09/20/2018 02:24*	WG1168529
(S) Toluene-d8	*119*			*75.0-131*		*09/20/2018 16:35*	WG1168808
(S) Dibromofluoromethane	*102*			*65.0-129*		*09/20/2018 02:24*	WG1168529
(S) Dibromofluoromethane	*87.3*			*65.0-129*		*09/20/2018 16:35*	WG1168808
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*09/20/2018 02:24*	WG1168529
(S) 4-Bromofluorobenzene	*88.7*			*67.0-138*		*09/20/2018 16:35*	WG1168808

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 10/19/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.1		1	09/17/2018 15:11	WG1166858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0671			0.0154	0.0280	1	09/20/2018 02:44	WG1168529
Acrylonitrile	U			0.00213	0.0140	1	09/20/2018 02:44	WG1168529
Benzene	0.000525	J	J	0.000449	0.00112	1	09/20/2018 02:44	WG1168529
Bromobenzene	U			0.00118	0.0140	1	09/20/2018 02:44	WG1168529
Bromodichloromethane	U			0.000884	0.00280	1	09/20/2018 02:44	WG1168529
Bromochloromethane	U			0.00127	0.00561	1	09/20/2018 02:44	WG1168529
Bromoform	U			0.00671	0.0280	1	09/20/2018 02:44	WG1168529
Bromomethane	U			0.00415	0.0140	1	09/20/2018 02:44	WG1168529
n-Butylbenzene	U			0.00431	0.0140	1	09/20/2018 02:44	WG1168529
sec-Butylbenzene	U			0.00284	0.0140	1	09/20/2018 02:44	WG1168529
tert-Butylbenzene	U			0.00174	0.00561	1	09/20/2018 02:44	WG1168529
Carbon disulfide	U			0.00455	0.0140	1	09/20/2018 02:44	WG1168529
Carbon tetrachloride	U			0.00121	0.00561	1	09/20/2018 02:44	WG1168529
Chlorobenzene	U			0.000643	0.00280	1	09/20/2018 02:44	WG1168529
Chlorodibromomethane	U			0.000505	0.00280	1	09/20/2018 02:44	WG1168529
Chloroethane	0.0282			0.00121	0.00561	1	09/20/2018 02:44	WG1168529
Chloroform	U			0.000466	0.00280	1	09/20/2018 02:44	WG1168529
Chloromethane	U			0.00156	0.0140	1	09/20/2018 02:44	WG1168529
2-Chlorotoluene	U			0.00103	0.00280	1	09/20/2018 02:44	WG1168529
4-Chlorotoluene	U			0.00127	0.00561	1	09/20/2018 02:44	WG1168529
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00572	0.0280	1	09/20/2018 02:44	WG1168529
1,2-Dibromoethane	U			0.000589	0.00280	1	09/20/2018 02:44	WG1168529
Dibromomethane	U			0.00112	0.00561	1	09/20/2018 02:44	WG1168529
1,2-Dichlorobenzene	U			0.00163	0.00561	1	09/20/2018 02:44	WG1168529
1,3-Dichlorobenzene	U			0.00191	0.00561	1	09/20/2018 02:44	WG1168529
1,4-Dichlorobenzene	U			0.00221	0.00561	1	09/20/2018 02:44	WG1168529
Dichlorodifluoromethane	U			0.000918	0.00280	1	09/20/2018 02:44	WG1168529
1,1-Dichloroethane	U			0.000645	0.00280	1	09/20/2018 02:44	WG1168529
1,2-Dichloroethane	U			0.000533	0.00280	1	09/20/2018 02:44	WG1168529
1,1-Dichloroethene	U			0.000561	0.00280	1	09/20/2018 02:44	WG1168529
cis-1,2-Dichloroethene	0.00943			0.000774	0.00280	1	09/20/2018 17:14	WG1168808
trans-1,2-Dichloroethene	U	UJ	J0	0.00160	0.00561	1	09/20/2018 02:44	WG1168529
1,2-Dichloropropane	U			0.00142	0.00561	1	09/20/2018 17:14	WG1168808
1,1-Dichloropropene	U			0.000785	0.00280	1	09/20/2018 02:44	WG1168529
1,3-Dichloropropane	U			0.00196	0.00561	1	09/20/2018 02:44	WG1168529
cis-1,3-Dichloropropene	U			0.000761	0.00280	1	09/20/2018 02:44	WG1168529
trans-1,3-Dichloropropene	0.00600	J	J0 J4	0.00172	0.00561	1	09/20/2018 02:44	WG1168529
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.00157	0.00561	1	09/20/2018 02:44	WG1168529
2,2-Dichloropropane	0.00171	J	J J0	0.000890	0.00280	1	09/20/2018 02:44	WG1168529
Di-isopropyl ether	U			0.000393	0.00112	1	09/20/2018 02:44	WG1168529
Ethylbenzene	U			0.000595	0.00280	1	09/20/2018 02:44	WG1168529
Hexachloro-1,3-butadiene	U			0.0142	0.0280	1	09/20/2018 02:44	WG1168529
2-Hexanone	U			0.0112	0.0280	1	09/20/2018 02:44	WG1168529
n-Hexane	0.00162	J	J J4	0.00119	0.00561	1	09/20/2018 17:14	WG1168808
Iodomethane	U			0.00679	0.0140	1	09/20/2018 02:44	WG1168529
Isopropylbenzene	U			0.000968	0.00280	1	09/20/2018 02:44	WG1168529
p-Isopropyltoluene	U	UJ	J4	0.00261	0.00561	1	09/20/2018 02:44	WG1168529
2-Butanone (MEK)	U			0.0140	0.0280	1	09/20/2018 17:14	WG1168808
Methylene Chloride	0.00858	U	B J	0.00745	0.0280	1	09/20/2018 02:44	WG1168529
4-Methyl-2-pentanone (MIBK)	U			0.0112	0.0280	1	09/20/2018 02:44	WG1168529

JC 10/19/18

IW-14D-75

Collected date/time: 09/11/18 12:00

SAMPLE RESULTS - 08

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.000562	J	J	0.000331	0.00112	1	09/20/2018 02:44	WG1168529
Naphthalene	U			0.00350	0.0140	1	09/20/2018 02:44	WG1168529
n-Propylbenzene	U			0.00132	0.00561	1	09/20/2018 02:44	WG1168529
Styrene	U	UJ	J4	0.00306	0.0140	1	09/20/2018 17:14	WG1168808
1,1,1,2-Tetrachloroethane	U	UJ	J0 J4	0.000561	0.00280	1	09/20/2018 02:44	WG1168529
1,1,2,2-Tetrachloroethane	U			0.000438	0.00280	1	09/20/2018 02:44	WG1168529
1,1,2-Trichlorotrifluoroethane	U			0.000757	0.00280	1	09/20/2018 02:44	WG1168529
Tetrachloroethene	0.0728			0.000785	0.00280	1	09/20/2018 17:14	WG1168808
Toluene	0.00304	J	J	0.00140	0.00561	1	09/20/2018 02:44	WG1168529
1,2,3-Trichlorobenzene	U			0.000701	0.00280	1	09/20/2018 02:44	WG1168529
1,2,4-Trichlorobenzene	U			0.00541	0.0140	1	09/20/2018 02:44	WG1168529
1,1,1-Trichloroethane	U			0.000309	0.00280	1	09/20/2018 02:44	WG1168529
1,1,2-Trichloroethane	U			0.000991	0.00280	1	09/20/2018 02:44	WG1168529
Trichloroethene	0.00797			0.000449	0.00112	1	09/20/2018 17:14	WG1168808
Trichlorofluoromethane	U			0.000561	0.00280	1	09/20/2018 02:44	WG1168529
1,2,3-Trichloropropane	U			0.00572	0.0140	1	09/20/2018 02:44	WG1168529
1,2,4-Trimethylbenzene	U			0.00130	0.00561	1	09/20/2018 02:44	WG1168529
1,2,3-Trimethylbenzene	U			0.00129	0.00561	1	09/20/2018 02:44	WG1168529
1,3,5-Trimethylbenzene	U			0.00121	0.00561	1	09/20/2018 02:44	WG1168529
Vinyl acetate	U	UJ	J0	0.00395	0.0140	1	09/20/2018 02:44	WG1168529
Vinyl chloride	U			0.000766	0.00280	1	09/20/2018 02:44	WG1168529
Xylenes, Total	U			0.00536	0.00729	1	09/20/2018 02:44	WG1168529
(S) Toluene-d8	*94.8*				*75.0-131*		*09/20/2018 02:44*	WG1168529
(S) Toluene-d8	*118*				*75.0-131*		*09/20/2018 17:14*	WG1168808
(S) Dibromofluoromethane	*107*				*65.0-129*		*09/20/2018 02:44*	WG1168529
(S) Dibromofluoromethane	*88.7*				*65.0-129*		*09/20/2018 17:14*	WG1168808
(S) 4-Bromofluorobenzene	*106*				*67.0-138*		*09/20/2018 02:44*	WG1168529
(S) 4-Bromofluorobenzene	*94.9*				*67.0-138*		*09/20/2018 17:14*	WG1168808

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.8		1	09/17/2018 15:11	WG1166858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0151	0.0275	1	09/20/2018 03:04	WG1168529
Acrylonitrile	U			0.00209	0.0138	1	09/20/2018 03:04	WG1168529
Benzene	0.000604	J	J	0.000441	0.00110	1	09/20/2018 03:04	WG1168529
Bromobenzene	U			0.00116	0.0138	1	09/20/2018 03:04	WG1168529
Bromodichloromethane	U			0.000868	0.00275	1	09/20/2018 03:04	WG1168529
Bromochloromethane	U			0.00124	0.00551	1	09/20/2018 03:04	WG1168529
Bromoform	U			0.00659	0.0275	1	09/20/2018 03:04	WG1168529
Bromomethane	U			0.00408	0.0138	1	09/20/2018 03:04	WG1168529
n-Butylbenzene	U			0.00423	0.0138	1	09/20/2018 03:04	WG1168529
sec-Butylbenzene	U			0.00279	0.0138	1	09/20/2018 03:04	WG1168529
tert-Butylbenzene	U			0.00171	0.00551	1	09/20/2018 03:04	WG1168529
Carbon disulfide	U			0.00447	0.0138	1	09/20/2018 03:04	WG1168529
Carbon tetrachloride	U			0.00119	0.00551	1	09/20/2018 03:04	WG1168529
Chlorobenzene	U			0.000631	0.00275	1	09/20/2018 03:04	WG1168529
Chlorodibromomethane	U			0.000496	0.00275	1	09/20/2018 03:04	WG1168529
Chloroethane	U			0.00119	0.00551	1	09/20/2018 03:04	WG1168529
Chloroform	U			0.000457	0.00275	1	09/20/2018 03:04	WG1168529
Chloromethane	U			0.00153	0.0138	1	09/20/2018 03:04	WG1168529
2-Chlorotoluene	U			0.00101	0.00275	1	09/20/2018 03:04	WG1168529
4-Chlorotoluene	U			0.00124	0.00551	1	09/20/2018 03:04	WG1168529
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00562	0.0275	1	09/20/2018 03:04	WG1168529
1,2-Dibromoethane	U			0.000578	0.00275	1	09/20/2018 03:04	WG1168529
Dibromomethane	U			0.00110	0.00551	1	09/20/2018 03:04	WG1168529
1,2-Dichlorobenzene	U			0.00160	0.00551	1	09/20/2018 03:04	WG1168529
1,3-Dichlorobenzene	U			0.00187	0.00551	1	09/20/2018 03:04	WG1168529
1,4-Dichlorobenzene	U			0.00217	0.00551	1	09/20/2018 03:04	WG1168529
Dichlorodifluoromethane	U			0.000901	0.00275	1	09/20/2018 03:04	WG1168529
1,1-Dichloroethane	U			0.000633	0.00275	1	09/20/2018 03:04	WG1168529
1,2-Dichloroethane	U			0.000523	0.00275	1	09/20/2018 03:04	WG1168529
1,1-Dichloroethene	0.00762			0.000551	0.00275	1	09/20/2018 03:04	WG1168529
cis-1,2-Dichloroethene	0.0189			0.000760	0.00275	1	09/20/2018 03:04	WG1168529
trans-1,2-Dichloroethene	0.00742	J	J0	0.00158	0.00551	1	09/20/2018 03:04	WG1168529
1,2-Dichloropropane	U			0.00140	0.00551	1	09/20/2018 23:35	WG1169029
1,1-Dichloropropene	U			0.000771	0.00275	1	09/20/2018 03:04	WG1168529
1,3-Dichloropropane	U			0.00193	0.00551	1	09/20/2018 03:04	WG1168529
cis-1,3-Dichloropropene	U			0.000747	0.00275	1	09/20/2018 03:04	WG1168529
trans-1,3-Dichloropropene	0.00731	J	J0 J4	0.00169	0.00551	1	09/20/2018 03:04	WG1168529
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.00154	0.00551	1	09/20/2018 03:04	WG1168529
2,2-Dichloropropane	U	UJ	J0	0.000874	0.00275	1	09/20/2018 03:04	WG1168529
Di-isopropyl ether	U			0.000386	0.00110	1	09/20/2018 03:04	WG1168529
Ethylbenzene	U			0.000584	0.00275	1	09/20/2018 03:04	WG1168529
Hexachloro-1,3-butadiene	U			0.0140	0.0275	1	09/20/2018 03:04	WG1168529
2-Hexanone	U			0.0110	0.0275	1	09/20/2018 03:04	WG1168529
n-Hexane	0.00146	J	J	0.00117	0.00551	1	09/21/2018 15:32	WG1169450
Iodomethane	U			0.00666	0.0138	1	09/20/2018 03:04	WG1168529
Isopropylbenzene	U			0.000951	0.00275	1	09/20/2018 03:04	WG1168529
p-Isopropyltoluene	U	UJ	J4	0.00257	0.00551	1	09/20/2018 03:04	WG1168529
2-Butanone (MEK)	U			0.0138	0.0275	1	09/20/2018 23:35	WG1169029
Methylene Chloride	U			0.00731	0.0275	1	09/20/2018 03:04	WG1168529
4-Methyl-2-pentanone (MIBK)	U			0.0110	0.0275	1	09/20/2018 03:04	WG1168529

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000325	0.00110	1	09/20/2018 03:04	WG1168529
Naphthalene	U			0.00344	0.0138	1	09/20/2018 03:04	WG1168529
n-Propylbenzene	U			0.00130	0.00551	1	09/20/2018 03:04	WG1168529
Styrene	U			0.00301	0.0138	1	09/20/2018 23:35	WG1169029
1,1,1,2-Tetrachloroethane	U	UJ	J0 J4	0.000551	0.00275	1	09/20/2018 03:04	WG1168529
1,1,2,2-Tetrachloroethane	U			0.000430	0.00275	1	09/20/2018 03:04	WG1168529
1,1,2-Trichlorotrifluoroethane	U			0.000744	0.00275	1	09/20/2018 03:04	WG1168529
Tetrachloroethene	2.31			0.000771	0.00275	1	09/20/2018 03:04	WG1168529
Toluene	0.00291	J	J	0.00138	0.00551	1	09/20/2018 03:04	WG1168529
1,2,3-Trichlorobenzene	U			0.000689	0.00275	1	09/20/2018 03:04	WG1168529
1,2,4-Trichlorobenzene	U			0.00531	0.0138	1	09/20/2018 03:04	WG1168529
1,1,1-Trichloroethane	U			0.000303	0.00275	1	09/20/2018 03:04	WG1168529
1,1,2-Trichloroethane	U			0.000973	0.00275	1	09/20/2018 03:04	WG1168529
Trichloroethene	0.502			0.000441	0.00110	1	09/20/2018 03:04	WG1168529
Trichlorofluoromethane	U			0.000551	0.00275	1	09/20/2018 03:04	WG1168529
1,2,3-Trichloropropane	U			0.00562	0.0138	1	09/20/2018 03:04	WG1168529
1,2,4-Trimethylbenzene	U			0.00128	0.00551	1	09/20/2018 03:04	WG1168529
1,2,3-Trimethylbenzene	U			0.00127	0.00551	1	09/20/2018 03:04	WG1168529
1,3,5-Trimethylbenzene	U			0.00119	0.00551	1	09/20/2018 03:04	WG1168529
Vinyl acetate	U	UJ	J0	0.00388	0.0138	1	09/20/2018 03:04	WG1168529
Vinyl chloride	U			0.000752	0.00275	1	09/20/2018 03:04	WG1168529
Xylenes, Total	U			0.00527	0.00716	1	09/20/2018 03:04	WG1168529
(S) Toluene-d8	*105*				*75.0-131*		*09/20/2018 03:04*	WG1168529
(S) Toluene-d8	*102*				*75.0-131*		*09/20/2018 23:35*	WG1169029
(S) Toluene-d8	*116*				*75.0-131*		*09/21/2018 15:32*	WG1169450
(S) Dibromofluoromethane	*101*				*65.0-129*		*09/20/2018 03:04*	WG1168529
(S) Dibromofluoromethane	*107*				*65.0-129*		*09/20/2018 23:35*	WG1169029
(S) Dibromofluoromethane	*91.4*				*65.0-129*		*09/21/2018 15:32*	WG1169450
(S) 4-Bromofluorobenzene	*107*				*67.0-138*		*09/20/2018 03:04*	WG1168529
(S) 4-Bromofluorobenzene	*106*				*67.0-138*		*09/20/2018 23:35*	WG1169029
(S) 4-Bromofluorobenzene	*85.2*				*67.0-138*		*09/21/2018 15:32*	WG1169450

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.3		1	09/17/2018 15:11	WG1166858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0155	0.0283	1	09/20/2018 03:24	WG1168529
Acrylonitrile	U			0.00215	0.0142	1	09/20/2018 03:24	WG1168529
Benzene	0.000701	J	J	0.000453	0.00113	1	09/20/2018 03:24	WG1168529
Bromobenzene	U			0.00119	0.0142	1	09/20/2018 03:24	WG1168529
Bromodichloromethane	U			0.000893	0.00283	1	09/20/2018 03:24	WG1168529
Bromochloromethane	U			0.00128	0.00566	1	09/20/2018 03:24	WG1168529
Bromoform	U			0.00677	0.0283	1	09/20/2018 03:24	WG1168529
Bromomethane	U			0.00419	0.0142	1	09/20/2018 03:24	WG1168529
n-Butylbenzene	U			0.00435	0.0142	1	09/20/2018 03:24	WG1168529
sec-Butylbenzene	U			0.00287	0.0142	1	09/20/2018 03:24	WG1168529
tert-Butylbenzene	U			0.00176	0.00566	1	09/20/2018 03:24	WG1168529
Carbon disulfide	U			0.00460	0.0142	1	09/20/2018 03:24	WG1168529
Carbon tetrachloride	U			0.00122	0.00566	1	09/20/2018 03:24	WG1168529
Chlorobenzene	U			0.000649	0.00283	1	09/20/2018 03:24	WG1168529
Chlorodibromomethane	U			0.000510	0.00283	1	09/20/2018 03:24	WG1168529
Chloroethane	0.0244			0.00122	0.00566	1	09/20/2018 03:24	WG1168529
Chloroform	U			0.000470	0.00283	1	09/20/2018 03:24	WG1168529
Chloromethane	U			0.00157	0.0142	1	09/20/2018 03:24	WG1168529
2-Chlorotoluene	U			0.00104	0.00283	1	09/20/2018 03:24	WG1168529
4-Chlorotoluene	U			0.00128	0.00566	1	09/20/2018 03:24	WG1168529
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00578	0.0283	1	09/20/2018 03:24	WG1168529
1,2-Dibromoethane	U			0.000595	0.00283	1	09/20/2018 03:24	WG1168529
Dibromomethane	U			0.00113	0.00566	1	09/20/2018 03:24	WG1168529
1,2-Dichlorobenzene	U			0.00164	0.00566	1	09/20/2018 03:24	WG1168529
1,3-Dichlorobenzene	U			0.00193	0.00566	1	09/20/2018 03:24	WG1168529
1,4-Dichlorobenzene	U			0.00223	0.00566	1	09/20/2018 03:24	WG1168529
Dichlorodifluoromethane	U			0.000927	0.00283	1	09/20/2018 03:24	WG1168529
1,1-Dichloroethane	U			0.000651	0.00283	1	09/20/2018 03:24	WG1168529
1,2-Dichloroethane	U			0.000538	0.00283	1	09/20/2018 03:24	WG1168529
1,1-Dichloroethene	0.00354			0.000566	0.00283	1	09/20/2018 03:24	WG1168529
cis-1,2-Dichloroethene	0.0212			0.000782	0.00283	1	09/20/2018 03:24	WG1168529
trans-1,2-Dichloroethene	0.00528	J	J J0	0.00162	0.00566	1	09/20/2018 03:24	WG1168529
1,2-Dichloropropane	U			0.0116	0.0453	8	09/20/2018 23:53	WG1169029
1,1-Dichloropropene	U			0.000793	0.00283	1	09/20/2018 03:24	WG1168529
1,3-Dichloropropane	U			0.00198	0.00566	1	09/20/2018 03:24	WG1168529
cis-1,3-Dichloropropene	U			0.000768	0.00283	1	09/20/2018 03:24	WG1168529
trans-1,3-Dichloropropene	U	UJ	J0 J4	0.00173	0.00566	1	09/20/2018 03:24	WG1168529
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.00159	0.00566	1	09/20/2018 03:24	WG1168529
2,2-Dichloropropane	0.00316	J	J0	0.000898	0.00283	1	09/20/2018 03:24	WG1168529
Di-isopropyl ether	U			0.000396	0.00113	1	09/20/2018 03:24	WG1168529
Ethylbenzene	0.000606	J	J	0.000600	0.00283	1	09/20/2018 03:24	WG1168529
Hexachloro-1,3-butadiene	U			0.0144	0.0283	1	09/20/2018 03:24	WG1168529
2-Hexanone	U			0.0113	0.0283	1	09/20/2018 03:24	WG1168529
n-Hexane	U			0.00961	0.0453	8	09/21/2018 15:52	WG1169450
Iodomethane	U			0.00685	0.0142	1	09/20/2018 03:24	WG1168529
Isopropylbenzene	U			0.000978	0.00283	1	09/20/2018 03:24	WG1168529
p-Isopropyltoluene	U	UJ	J4	0.00264	0.00566	1	09/20/2018 03:24	WG1168529
2-Butanone (MEK)	U			0.113	0.227	8	09/20/2018 23:53	WG1169029
Methylene Chloride	0.00858	U	B J	0.00752	0.0283	1	09/20/2018 03:24	WG1168529
4-Methyl-2-pentanone (MIBK)	U			0.0113	0.0283	1	09/20/2018 03:24	WG1168529

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg			mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	0.00135			0.000334	0.00113	1	09/20/2018 03:24	WG1168529
Naphthalene	U			0.00353	0.0142	1	09/20/2018 03:24	WG1168529
n-Propylbenzene	U			0.00134	0.00566	1	09/20/2018 03:24	WG1168529
Styrene	U			0.0247	0.113	8	09/20/2018 23:53	WG1169029
1,1,1,2-Tetrachloroethane	U	UJ	J0 J4	0.000566	0.00283	1	09/20/2018 03:24	WG1168529
1,1,2,2-Tetrachloroethane	U			0.000442	0.00283	1	09/20/2018 03:24	WG1168529
1,1,2-Trichlorotrifluoroethane	U			0.000765	0.00283	1	09/20/2018 03:24	WG1168529
Tetrachloroethene	5.03			0.00634	0.0227	8	09/20/2018 23:53	WG1169029
Toluene	0.00318	J	J	0.00142	0.00566	1	09/20/2018 03:24	WG1168529
1,2,3-Trichlorobenzene	0.00174	J	J	0.000708	0.00283	1	09/20/2018 03:24	WG1168529
1,2,4-Trichlorobenzene	U			0.00546	0.0142	1	09/20/2018 03:24	WG1168529
1,1,1-Trichloroethane	U			0.000312	0.00283	1	09/20/2018 03:24	WG1168529
1,1,2-Trichloroethane	U			0.00100	0.00283	1	09/20/2018 03:24	WG1168529
Trichloroethene	0.616			0.000453	0.00113	1	09/20/2018 03:24	WG1168529
Trichlorofluoromethane	U			0.000566	0.00283	1	09/20/2018 03:24	WG1168529
1,2,3-Trichloropropane	U			0.00578	0.0142	1	09/20/2018 03:24	WG1168529
1,2,4-Trimethylbenzene	0.00133	J	J	0.00131	0.00566	1	09/20/2018 03:24	WG1168529
1,2,3-Trimethylbenzene	U			0.00130	0.00566	1	09/20/2018 03:24	WG1168529
1,3,5-Trimethylbenzene	0.00133	J	J	0.00122	0.00566	1	09/20/2018 03:24	WG1168529
Vinyl acetate	U	UJ	J0	0.00399	0.0142	1	09/20/2018 03:24	WG1168529
Vinyl chloride	U			0.000774	0.00283	1	09/20/2018 03:24	WG1168529
Xylenes, Total	U			0.00541	0.00736	1	09/20/2018 03:24	WG1168529
(S) Toluene-d8	*108*				*75.0-131*		*09/20/2018 03:24*	WG1168529
(S) Toluene-d8	*100*				*75.0-131*		*09/20/2018 23:53*	WG1169029
(S) Toluene-d8	*108*				*75.0-131*		*09/21/2018 15:52*	WG1169450
(S) Dibromofluoromethane	*102*				*65.0-129*		*09/20/2018 03:24*	WG1168529
(S) Dibromofluoromethane	*109*				*65.0-129*		*09/20/2018 23:53*	WG1169029
(S) Dibromofluoromethane	*107*				*65.0-129*		*09/21/2018 15:52*	WG1169450
(S) 4-Bromofluorobenzene	*108*				*67.0-138*		*09/20/2018 03:24*	WG1168529
(S) 4-Bromofluorobenzene	*107*				*67.0-138*		*09/20/2018 23:53*	WG1169029
(S) 4-Bromofluorobenzene	*85.4*				*67.0-138*		*09/21/2018 15:52*	WG1169450

Sample Narrative:

L1025469-10 WG1168529, WG1169029: Not all compounds reportable from 1x dilution.

L1025469-10 WG1168529, WG1169029: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.5		1	09/17/2018 15:11	WG1166858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0590			0.0147	0.0268	1	09/20/2018 03:43	WG1168529
Acrylonitrile	U			0.00203	0.0134	1	09/20/2018 03:43	WG1168529
Benzene	0.000455	J	J	0.000428	0.00107	1	09/20/2018 03:43	WG1168529
Bromobenzene	U			0.00112	0.0134	1	09/20/2018 03:43	WG1168529
Bromodichloromethane	U			0.000843	0.00268	1	09/20/2018 03:43	WG1168529
Bromochloromethane	U			0.00121	0.00535	1	09/20/2018 03:43	WG1168529
Bromoform	U			0.00640	0.0268	1	09/20/2018 03:43	WG1168529
Bromomethane	U			0.00396	0.0134	1	09/20/2018 03:43	WG1168529
n-Butylbenzene	U			0.00411	0.0134	1	09/20/2018 03:43	WG1168529
sec-Butylbenzene	U			0.00271	0.0134	1	09/20/2018 03:43	WG1168529
tert-Butylbenzene	U			0.00166	0.00535	1	09/20/2018 03:43	WG1168529
Carbon disulfide	U			0.00434	0.0134	1	09/20/2018 03:43	WG1168529
Carbon tetrachloride	U			0.00116	0.00535	1	09/20/2018 03:43	WG1168529
Chlorobenzene	U			0.000613	0.00268	1	09/20/2018 03:43	WG1168529
Chlorodibromomethane	U			0.000482	0.00268	1	09/20/2018 03:43	WG1168529
Chloroethane	0.0265			0.00116	0.00535	1	09/20/2018 03:43	WG1168529
Chloroform	U			0.000444	0.00268	1	09/20/2018 03:43	WG1168529
Chloromethane	U			0.00149	0.0134	1	09/20/2018 03:43	WG1168529
2-Chlorotoluene	U			0.000984	0.00268	1	09/20/2018 03:43	WG1168529
4-Chlorotoluene	U			0.00121	0.00535	1	09/20/2018 03:43	WG1168529
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00546	0.0268	1	09/20/2018 03:43	WG1168529
1,2-Dibromoethane	U			0.000562	0.00268	1	09/20/2018 03:43	WG1168529
Dibromomethane	U			0.00107	0.00535	1	09/20/2018 03:43	WG1168529
1,2-Dichlorobenzene	U			0.00155	0.00535	1	09/20/2018 03:43	WG1168529
1,3-Dichlorobenzene	U			0.00182	0.00535	1	09/20/2018 03:43	WG1168529
1,4-Dichlorobenzene	U			0.00211	0.00535	1	09/20/2018 03:43	WG1168529
Dichlorodifluoromethane	U			0.000875	0.00268	1	09/20/2018 03:43	WG1168529
1,1-Dichloroethane	U			0.000615	0.00268	1	09/20/2018 03:43	WG1168529
1,2-Dichloroethane	U			0.000508	0.00268	1	09/20/2018 03:43	WG1168529
1,1-Dichloroethene	0.00469			0.000535	0.00268	1	09/20/2018 03:43	WG1168529
cis-1,2-Dichloroethene	0.242			0.000738	0.00268	1	09/20/2018 03:43	WG1168529
trans-1,2-Dichloroethene	U	UJ	J0	0.00153	0.00535	1	09/20/2018 03:43	WG1168529
1,2-Dichloropropane	U			0.00544	0.0214	4	09/21/2018 00:12	WG1169029
1,1-Dichloropropene	U			0.000749	0.00268	1	09/20/2018 03:43	WG1168529
1,3-Dichloropropane	U			0.00187	0.00535	1	09/20/2018 03:43	WG1168529
cis-1,3-Dichloropropene	U			0.000725	0.00268	1	09/20/2018 03:43	WG1168529
trans-1,3-Dichloropropene	U	UJ	J0 J4	0.00164	0.00535	1	09/20/2018 03:43	WG1168529
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.00150	0.00535	1	09/20/2018 03:43	WG1168529
2,2-Dichloropropane	U	UJ	J0	0.000849	0.00268	1	09/20/2018 03:43	WG1168529
Di-isopropyl ether	U			0.000375	0.00107	1	09/20/2018 03:43	WG1168529
Ethylbenzene	0.000628	J	J	0.000567	0.00268	1	09/20/2018 03:43	WG1168529
Hexachloro-1,3-butadiene	U			0.0136	0.0268	1	09/20/2018 03:43	WG1168529
2-Hexanone	U			0.0107	0.0268	1	09/20/2018 03:43	WG1168529
n-Hexane	U			0.00454	0.0214	4	09/21/2018 16:11	WG1169450
Iodomethane	U			0.00647	0.0134	1	09/20/2018 03:43	WG1168529
Isopropylbenzene	U			0.000923	0.00268	1	09/20/2018 03:43	WG1168529
p-Isopropyltoluene	U	UJ	J4	0.00249	0.00535	1	09/20/2018 03:43	WG1168529
2-Butanone (MEK)	U			0.0535	0.107	4	09/21/2018 00:12	WG1169029
Methylene Chloride	0.00833	U	B J	0.00710	0.0268	1	09/20/2018 03:43	WG1168529
4-Methyl-2-pentanone (MIBK)	U			0.0107	0.0268	1	09/20/2018 03:43	WG1168529

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.00144		0.000316	0.00107	1	09/20/2018 03:43	WG1168529
Naphthalene	U		0.00334	0.0134	1	09/20/2018 03:43	WG1168529
n-Propylbenzene	U		0.00126	0.00535	1	09/20/2018 03:43	WG1168529
Styrene	U		0.0117	0.0535	4	09/21/2018 00:12	WG1169029
1,1,1,2-Tetrachloroethane	U	UJ J0 J4	0.000535	0.00268	1	09/20/2018 03:43	WG1168529
1,1,2,2-Tetrachloroethane	U		0.000417	0.00268	1	09/20/2018 03:43	WG1168529
1,1,2-Trichlorotrifluoroethane	U		0.000722	0.00268	1	09/20/2018 03:43	WG1168529
Tetrachloroethene	2.32		0.000749	0.00268	1	09/20/2018 03:43	WG1168529
Toluene	0.00333	J J	0.00134	0.00535	1	09/20/2018 03:43	WG1168529
1,2,3-Trichlorobenzene	U		0.000669	0.00268	1	09/20/2018 03:43	WG1168529
1,2,4-Trichlorobenzene	U		0.00516	0.0134	1	09/20/2018 03:43	WG1168529
1,1,1-Trichloroethane	U		0.000294	0.00268	1	09/20/2018 03:43	WG1168529
1,1,2-Trichloroethane	U		0.000945	0.00268	1	09/20/2018 03:43	WG1168529
Trichloroethene	0.282		0.000428	0.00107	1	09/20/2018 03:43	WG1168529
Trichlorofluoromethane	U		0.000535	0.00268	1	09/20/2018 03:43	WG1168529
1,2,3-Trichloropropane	U		0.00546	0.0134	1	09/20/2018 03:43	WG1168529
1,2,4-Trimethylbenzene	0.00271	J J	0.00124	0.00535	1	09/20/2018 03:43	WG1168529
1,2,3-Trimethylbenzene	U		0.00123	0.00535	1	09/20/2018 03:43	WG1168529
1,3,5-Trimethylbenzene	0.00118	J J	0.00116	0.00535	1	09/20/2018 03:43	WG1168529
Vinyl acetate	U	UJ J0	0.00377	0.0134	1	09/20/2018 03:43	WG1168529
Vinyl chloride	0.00390		0.000731	0.00268	1	09/20/2018 03:43	WG1168529
Xylenes, Total	U		0.00511	0.00696	1	09/20/2018 03:43	WG1168529
(S) Toluene-d8	*90.9*			*75.0-131*		*09/20/2018 03:43*	WG1168529
(S) Toluene-d8	*94.4*			*75.0-131*		*09/21/2018 00:12*	WG1169029
(S) Toluene-d8	*108*			*75.0-131*		*09/21/2018 16:11*	WG1169450
(S) Dibromofluoromethane	*104*			*65.0-129*		*09/20/2018 03:43*	WG1168529
(S) Dibromofluoromethane	*114*			*65.0-129*		*09/21/2018 00:12*	WG1169029
(S) Dibromofluoromethane	*105*			*65.0-129*		*09/21/2018 16:11*	WG1169450
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/20/2018 03:43*	WG1168529
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/21/2018 00:12*	WG1169029
(S) 4-Bromofluorobenzene	*93.0*			*67.0-138*		*09/21/2018 16:11*	WG1169450

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	09/14/2018 16:28	WG1166389
Acrylonitrile	U		0.873	5.00	1	09/14/2018 16:28	WG1166389
Benzene	U		0.0896	0.500	1	09/14/2018 16:28	WG1166389
Bromobenzene	U		0.133	0.500	1	09/14/2018 16:28	WG1166389
Bromodichloromethane	U		0.0800	0.500	1	09/14/2018 16:28	WG1166389
Bromochloromethane	U		0.145	0.500	1	09/14/2018 16:28	WG1166389
Bromoform	U		0.186	0.500	1	09/14/2018 16:28	WG1166389
Bromomethane	U		0.157	2.50	1	09/14/2018 16:28	WG1166389
n-Butylbenzene	U		0.143	0.500	1	09/14/2018 16:28	WG1166389
sec-Butylbenzene	U		0.134	0.500	1	09/14/2018 16:28	WG1166389
tert-Butylbenzene	U		0.183	0.500	1	09/14/2018 16:28	WG1166389
Carbon disulfide	U		0.101	0.500	1	09/14/2018 16:28	WG1166389
Carbon tetrachloride	U		0.159	0.500	1	09/14/2018 16:28	WG1166389
Chlorobenzene	U		0.140	0.500	1	09/14/2018 16:28	WG1166389
Chlorodibromomethane	U		0.128	0.500	1	09/14/2018 16:28	WG1166389
Chloroethane	U		0.141	2.50	1	09/14/2018 16:28	WG1166389
Chloroform	U		0.0860	0.500	1	09/14/2018 16:28	WG1166389
Chloromethane	U		0.153	1.25	1	09/14/2018 16:28	WG1166389
2-Chlorotoluene	U		0.111	0.500	1	09/14/2018 16:28	WG1166389
4-Chlorotoluene	U		0.0972	0.500	1	09/14/2018 16:28	WG1166389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/14/2018 16:28	WG1166389
1,2-Dibromoethane	U		0.193	0.500	1	09/14/2018 16:28	WG1166389
Dibromomethane	U		0.117	0.500	1	09/14/2018 16:28	WG1166389
1,2-Dichlorobenzene	U		0.101	0.500	1	09/14/2018 16:28	WG1166389
1,3-Dichlorobenzene	U		0.130	0.500	1	09/14/2018 16:28	WG1166389
1,4-Dichlorobenzene	U		0.121	0.500	1	09/14/2018 16:28	WG1166389
Dichlorodifluoromethane	U		0.127	2.50	1	09/14/2018 16:28	WG1166389
1,1-Dichloroethane	U		0.114	0.500	1	09/14/2018 16:28	WG1166389
1,2-Dichloroethane	U		0.108	0.500	1	09/14/2018 16:28	WG1166389
1,1-Dichloroethene	U		0.188	0.500	1	09/14/2018 16:28	WG1166389
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/14/2018 16:28	WG1166389
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/14/2018 16:28	WG1166389
1,2-Dichloropropane	U		0.190	0.500	1	09/14/2018 16:28	WG1166389
1,1-Dichloropropene	U		0.128	0.500	1	09/14/2018 16:28	WG1166389
1,3-Dichloropropane	U		0.147	1.00	1	09/14/2018 16:28	WG1166389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/14/2018 16:28	WG1166389
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/14/2018 16:28	WG1166389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/14/2018 16:28	WG1166389
2,2-Dichloropropane	U		0.0929	0.500	1	09/14/2018 16:28	WG1166389
Di-isopropyl ether	U		0.0924	0.500	1	09/14/2018 16:28	WG1166389
Ethylbenzene	U		0.158	0.500	1	09/14/2018 16:28	WG1166389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/14/2018 16:28	WG1166389
2-Hexanone	U		0.757	5.00	1	09/14/2018 16:28	WG1166389
n-Hexane	U		0.305	5.00	1	09/14/2018 16:28	WG1166389
Iodomethane	U		0.377	10.0	1	09/14/2018 16:28	WG1166389
Isopropylbenzene	U		0.126	0.500	1	09/14/2018 16:28	WG1166389
p-Isopropyltoluene	U		0.138	0.500	1	09/14/2018 16:28	WG1166389
2-Butanone (MEK)	U		1.28	5.00	1	09/14/2018 16:28	WG1166389
Methylene Chloride	U		1.07	2.50	1	09/14/2018 16:28	WG1166389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/14/2018 16:28	WG1166389
Methyl tert-butyl ether	U		0.102	0.500	1	09/14/2018 16:28	WG1166389
Naphthalene	U		0.174	2.50	1	09/14/2018 16:28	WG1166389
n-Propylbenzene	U		0.162	0.500	1	09/14/2018 16:28	WG1166389
Styrene	U		0.117	0.500	1	09/14/2018 16:28	WG1166389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/14/2018 16:28	WG1166389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/14/2018 16:28	WG1166389

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/14/2018 16:28	WG1166389
Tetrachloroethene	U		0.199	0.500	1	09/14/2018 16:28	WG1166389
Toluene	U		0.412	0.500	1	09/14/2018 16:28	WG1166389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/14/2018 16:28	WG1166389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/14/2018 16:28	WG1166389
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/14/2018 16:28	WG1166389
1,1,2-Trichloroethane	U		0.186	0.500	1	09/14/2018 16:28	WG1166389
Trichloroethene	U		0.153	0.500	1	09/14/2018 16:28	WG1166389
Trichlorofluoromethane	U		0.130	2.50	1	09/14/2018 16:28	WG1166389
1,2,3-Trichloropropane	U		0.247	2.50	1	09/14/2018 16:28	WG1166389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/14/2018 16:28	WG1166389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/14/2018 16:28	WG1166389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/14/2018 16:28	WG1166389
Vinyl acetate	U		0.645	5.00	1	09/14/2018 16:28	WG1166389
Vinyl chloride	U		0.118	0.500	1	09/14/2018 16:28	WG1166389
Xylenes, Total	U		0.316	1.50	1	09/14/2018 16:28	WG1166389
(S) Toluene-d8	*103*			*80.0-120*		*09/14/2018 16:28*	WG1166389
(S) Dibromofluoromethane	*101*			*75.0-120*		*09/14/2018 16:28*	WG1166389
(S) 4-Bromofluorobenzene	*90.1*			*77.0-126*		*09/14/2018 16:28*	WG1166389

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.6		1	09/20/2018 11:19	WG1168410

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		3.16	5.77	200	09/23/2018 20:01	WG1170348
Acrylonitrile	U		0.00219	0.0144	1	09/21/2018 22:18	WG1169827
Benzene	U		0.000462	0.00115	1	09/21/2018 22:18	WG1169827
Bromobenzene	U		0.00121	0.0144	1	09/21/2018 22:18	WG1169827
Bromodichloromethane	U		0.000910	0.00289	1	09/21/2018 22:18	WG1169827
Bromochloromethane	U		0.00130	0.00577	1	09/21/2018 22:18	WG1169827
Bromoform	U		0.00690	0.0289	1	09/21/2018 22:18	WG1169827
Bromomethane	U		0.00427	0.0144	1	09/21/2018 22:18	WG1169827
n-Butylbenzene	U		0.00443	0.0144	1	09/21/2018 22:18	WG1169827
sec-Butylbenzene	U		0.00292	0.0144	1	09/21/2018 22:18	WG1169827
tert-Butylbenzene	U		0.00179	0.00577	1	09/21/2018 22:18	WG1169827
Carbon disulfide	U		0.00469	0.0144	1	09/21/2018 22:18	WG1169827
Carbon tetrachloride	U		0.00125	0.00577	1	09/21/2018 22:18	WG1169827
Chlorobenzene	U		0.000661	0.00289	1	09/21/2018 22:18	WG1169827
Chlorodibromomethane	U		0.000519	0.00289	1	09/21/2018 22:18	WG1169827
Chloroethane	U		0.249	1.15	200	09/23/2018 20:01	WG1170348
Chloroform	U		0.000479	0.00289	1	09/21/2018 22:18	WG1169827
Chloromethane	U		0.00160	0.0144	1	09/21/2018 22:18	WG1169827
2-Chlorotoluene	U		0.00106	0.00289	1	09/21/2018 22:18	WG1169827
4-Chlorotoluene	U		0.00130	0.00577	1	09/21/2018 22:18	WG1169827
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00589	0.0289	1	09/21/2018 22:18	WG1169827
1,2-Dibromoethane	U		0.000606	0.00289	1	09/21/2018 22:18	WG1169827
Dibromomethane	U		0.00115	0.00577	1	09/21/2018 22:18	WG1169827
1,2-Dichlorobenzene	U		0.00167	0.00577	1	09/21/2018 22:18	WG1169827
1,3-Dichlorobenzene	U		0.00196	0.00577	1	09/21/2018 22:18	WG1169827
1,4-Dichlorobenzene	U		0.00227	0.00577	1	09/21/2018 22:18	WG1169827
Dichlorodifluoromethane	U		0.000944	0.00289	1	09/21/2018 22:18	WG1169827
1,1-Dichloroethane	U		0.000664	0.00289	1	09/21/2018 22:18	WG1169827
1,2-Dichloroethane	U		0.000548	0.00289	1	09/21/2018 22:18	WG1169827
1,1-Dichloroethene	U		0.000577	0.00289	1	09/21/2018 22:18	WG1169827
cis-1,2-Dichloroethene	0.00700		0.000796	0.00289	1	09/21/2018 22:18	WG1169827
trans-1,2-Dichloroethene	U		0.00165	0.00577	1	09/21/2018 22:18	WG1169827
1,2-Dichloropropane	U		0.293	1.15	200	09/23/2018 20:01	WG1170348
1,1-Dichloropropene	U		0.000808	0.00289	1	09/21/2018 22:18	WG1169827
1,3-Dichloropropane	U		0.00202	0.00577	1	09/21/2018 22:18	WG1169827
cis-1,3-Dichloropropene	U		0.000783	0.00289	1	09/21/2018 22:18	WG1169827
trans-1,3-Dichloropropene	U		0.00177	0.00577	1	09/21/2018 22:18	WG1169827
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00162	0.00577	1	09/21/2018 22:18	WG1169827
2,2-Dichloropropane	U		0.000915	0.00289	1	09/21/2018 22:18	WG1169827
Di-isopropyl ether	U		0.000404	0.00115	1	09/21/2018 22:18	WG1169827
Ethylbenzene	U		0.000612	0.00289	1	09/21/2018 22:18	WG1169827
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1	09/21/2018 22:18	WG1169827
2-Hexanone	U		0.0115	0.0289	1	09/21/2018 22:18	WG1169827
n-Hexane	U		0.00122	0.00577	1	09/21/2018 22:18	WG1169827
Iodomethane	U	J4	0.00698	0.0144	1	09/21/2018 22:18	WG1169827
Isopropylbenzene	U		0.000996	0.00289	1	09/21/2018 22:18	WG1169827
p-Isopropyltoluene	U		0.00269	0.00577	1	09/21/2018 22:18	WG1169827
2-Butanone (MEK)	0.0472		0.0144	0.0289	1	09/21/2018 22:18	WG1169827
Methylene Chloride	U		0.00766	0.0289	1	09/21/2018 22:18	WG1169827
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0289	1	09/21/2018 22:18	WG1169827

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000340	0.00115	1	09/21/2018 22:18	WG1169827
Naphthalene	U			0.00360	0.0144	1	09/21/2018 22:18	WG1169827
n-Propylbenzene	U			0.00136	0.00577	1	09/21/2018 22:18	WG1169827
Styrene	U			0.00315	0.0144	1	09/21/2018 22:18	WG1169827
1,1,1,2-Tetrachloroethane	U			0.000577	0.00289	1	09/21/2018 22:18	WG1169827
1,1,2,2-Tetrachloroethane	U			0.000450	0.00289	1	09/21/2018 22:18	WG1169827
1,1,2-Trichlorotrifluoroethane	U			0.000779	0.00289	1	09/21/2018 22:18	WG1169827
Tetrachloroethene	48.1			0.162	0.577	200	09/23/2018 20:01	WG1170348
Toluene	0.00424	J	J	0.00144	0.00577	1	09/21/2018 22:18	WG1169827
1,2,3-Trichlorobenzene	U			0.144	0.577	200	09/23/2018 20:01	WG1170348
1,2,4-Trichlorobenzene	U			0.00556	0.0144	1	09/21/2018 22:18	WG1169827
1,1,1-Trichloroethane	U			0.000317	0.00289	1	09/21/2018 22:18	WG1169827
1,1,2-Trichloroethane	U			0.00102	0.00289	1	09/21/2018 22:18	WG1169827
Trichloroethene	0.0503			0.000462	0.00115	1	09/21/2018 22:18	WG1169827
Trichlorofluoromethane	U			0.000577	0.00289	1	09/21/2018 22:18	WG1169827
1,2,3-Trichloropropane	U			0.00589	0.0144	1	09/21/2018 22:18	WG1169827
1,2,4-Trimethylbenzene	0.00204	J	J	0.00134	0.00577	1	09/21/2018 22:18	WG1169827
1,2,3-Trimethylbenzene	U			0.00133	0.00577	1	09/21/2018 22:18	WG1169827
1,3,5-Trimethylbenzene	U			0.00125	0.00577	1	09/21/2018 22:18	WG1169827
Vinyl acetate	U	UJ	J0	0.00406	0.0144	1	09/21/2018 22:18	WG1169827
Vinyl chloride	U			0.000788	0.00289	1	09/21/2018 22:18	WG1169827
Xylenes, Total	U			0.00552	0.00750	1	09/21/2018 22:18	WG1169827
(S) Toluene-d8	*117*				*75.0-131*		*09/21/2018 22:18*	WG1169827
(S) Toluene-d8	*122*				*75.0-131*		*09/23/2018 20:01*	WG1170348
(S) Dibromofluoromethane	*102*				*65.0-129*		*09/21/2018 22:18*	WG1169827
(S) Dibromofluoromethane	*99.1*				*65.0-129*		*09/23/2018 20:01*	WG1170348
(S) 4-Bromofluorobenzene	*95.5*				*67.0-138*		*09/21/2018 22:18*	WG1169827
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*09/23/2018 20:01*	WG1170348

Sample Narrative:

L1026432-01 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-01 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

JC 10/19/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.3		1	09/20/2018 11:19	WG1168410

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0159	0.0290	1	09/23/2018 16:50	WG1170348
Acrylonitrile	U		0.00220	0.0145	1	09/21/2018 22:37	WG1169827
Benzene	U		0.000463	0.00116	1	09/21/2018 22:37	WG1169827
Bromobenzene	U		0.00122	0.0145	1	09/21/2018 22:37	WG1169827
Bromodichloromethane	U		0.000913	0.00290	1	09/21/2018 22:37	WG1169827
Bromochloromethane	U		0.00131	0.00579	1	09/21/2018 22:37	WG1169827
Bromoform	U		0.00693	0.0290	1	09/21/2018 22:37	WG1169827
Bromomethane	U		0.00429	0.0145	1	09/21/2018 22:37	WG1169827
n-Butylbenzene	U		0.00445	0.0145	1	09/21/2018 22:37	WG1169827
sec-Butylbenzene	U		0.00293	0.0145	1	09/21/2018 22:37	WG1169827
tert-Butylbenzene	U		0.00180	0.00579	1	09/21/2018 22:37	WG1169827
Carbon disulfide	U		0.00470	0.0145	1	09/21/2018 22:37	WG1169827
Carbon tetrachloride	U		0.00125	0.00579	1	09/21/2018 22:37	WG1169827
Chlorobenzene	U		0.000664	0.00290	1	09/21/2018 22:37	WG1169827
Chlorodibromomethane	U		0.000521	0.00290	1	09/21/2018 22:37	WG1169827
Chloroethane	U		0.00125	0.00579	1	09/23/2018 16:50	WG1170348
Chloroform	U		0.000481	0.00290	1	09/21/2018 22:37	WG1169827
Chloromethane	U		0.00161	0.0145	1	09/21/2018 22:37	WG1169827
2-Chlorotoluene	U		0.00107	0.00290	1	09/21/2018 22:37	WG1169827
4-Chlorotoluene	U		0.00131	0.00579	1	09/21/2018 22:37	WG1169827
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00591	0.0290	1	09/21/2018 22:37	WG1169827
1,2-Dibromoethane	U		0.000608	0.00290	1	09/21/2018 22:37	WG1169827
Dibromomethane	U		0.00116	0.00579	1	09/21/2018 22:37	WG1169827
1,2-Dichlorobenzene	U		0.00168	0.00579	1	09/21/2018 22:37	WG1169827
1,3-Dichlorobenzene	U		0.00197	0.00579	1	09/21/2018 22:37	WG1169827
1,4-Dichlorobenzene	U		0.00228	0.00579	1	09/21/2018 22:37	WG1169827
Dichlorodifluoromethane	U		0.000947	0.00290	1	09/21/2018 22:37	WG1169827
1,1-Dichloroethane	U		0.000666	0.00290	1	09/21/2018 22:37	WG1169827
1,2-Dichloroethane	U		0.000550	0.00290	1	09/21/2018 22:37	WG1169827
1,1-Dichloroethene	U		0.000579	0.00290	1	09/21/2018 22:37	WG1169827
cis-1,2-Dichloroethene	U		0.000799	0.00290	1	09/21/2018 22:37	WG1169827
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	09/21/2018 22:37	WG1169827
1,2-Dichloropropane	U		0.00147	0.00579	1	09/23/2018 16:50	WG1170348
1,1-Dichloropropene	U		0.000811	0.00290	1	09/21/2018 22:37	WG1169827
1,3-Dichloropropane	U		0.00203	0.00579	1	09/21/2018 22:37	WG1169827
cis-1,3-Dichloropropene	U		0.000785	0.00290	1	09/21/2018 22:37	WG1169827
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	09/21/2018 22:37	WG1169827
trans-1,4-Dichloro-2-butene	U	UJ J0	0.00162	0.00579	1	09/21/2018 22:37	WG1169827
2,2-Dichloropropane	U		0.000918	0.00290	1	09/21/2018 22:37	WG1169827
Di-isopropyl ether	U		0.000405	0.00116	1	09/21/2018 22:37	WG1169827
Ethylbenzene	U		0.000614	0.00290	1	09/21/2018 22:37	WG1169827
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	09/21/2018 22:37	WG1169827
2-Hexanone	U		0.0116	0.0290	1	09/21/2018 22:37	WG1169827
n-Hexane	U		0.00123	0.00579	1	09/21/2018 22:37	WG1169827
Iodomethane	U	J4	0.00701	0.0145	1	09/21/2018 22:37	WG1169827
Isopropylbenzene	U		0.00100	0.00290	1	09/21/2018 22:37	WG1169827
p-Isopropyltoluene	U		0.00270	0.00579	1	09/21/2018 22:37	WG1169827
2-Butanone (MEK)	U		0.0145	0.0290	1	09/21/2018 22:37	WG1169827
Methylene Chloride	0.00867	J J	0.00769	0.0290	1	09/21/2018 22:37	WG1169827
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	09/21/2018 22:37	WG1169827

JC 10/19/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000342	0.00116	1	09/21/2018 22:37	WG1169827
Naphthalene	U			0.00361	0.0145	1	09/21/2018 22:37	WG1169827
n-Propylbenzene	U			0.00137	0.00579	1	09/21/2018 22:37	WG1169827
Styrene	U			0.00316	0.0145	1	09/21/2018 22:37	WG1169827
1,1,1,2-Tetrachloroethane	U			0.000579	0.00290	1	09/21/2018 22:37	WG1169827
1,1,2,2-Tetrachloroethane	U			0.000452	0.00290	1	09/21/2018 22:37	WG1169827
1,1,2-Trichlorotrifluoroethane	U			0.000782	0.00290	1	09/21/2018 22:37	WG1169827
Tetrachloroethene	0.0827			0.000811	0.00290	1	09/23/2018 16:50	WG1170348
Toluene	0.00537	J	J	0.00145	0.00579	1	09/21/2018 22:37	WG1169827
1,2,3-Trichlorobenzene	U			0.000724	0.00290	1	09/23/2018 16:50	WG1170348
1,2,4-Trichlorobenzene	U			0.00558	0.0145	1	09/21/2018 22:37	WG1169827
1,1,1-Trichloroethane	U			0.000319	0.00290	1	09/21/2018 22:37	WG1169827
1,1,2-Trichloroethane	U			0.00102	0.00290	1	09/21/2018 22:37	WG1169827
Trichloroethene	U			0.000463	0.00116	1	09/21/2018 22:37	WG1169827
Trichlorofluoromethane	U			0.000579	0.00290	1	09/21/2018 22:37	WG1169827
1,2,3-Trichloropropane	U			0.00591	0.0145	1	09/21/2018 22:37	WG1169827
1,2,4-Trimethylbenzene	0.00160	J	J	0.00134	0.00579	1	09/21/2018 22:37	WG1169827
1,2,3-Trimethylbenzene	U			0.00133	0.00579	1	09/21/2018 22:37	WG1169827
1,3,5-Trimethylbenzene	U			0.00125	0.00579	1	09/21/2018 22:37	WG1169827
Vinyl acetate	U	UJ	J0	0.00408	0.0145	1	09/21/2018 22:37	WG1169827
Vinyl chloride	U			0.000791	0.00290	1	09/21/2018 22:37	WG1169827
Xylenes, Total	U			0.00554	0.00753	1	09/21/2018 22:37	WG1169827
(S) Toluene-d8	*87.9*				*75.0-131*		*09/21/2018 22:37*	WG1169827
(S) Toluene-d8	*106*				*75.0-131*		*09/23/2018 16:50*	WG1170348
(S) Dibromofluoromethane	*102*				*65.0-129*		*09/21/2018 22:37*	WG1169827
(S) Dibromofluoromethane	*101*				*65.0-129*		*09/23/2018 16:50*	WG1170348
(S) 4-Bromofluorobenzene	*102*				*67.0-138*		*09/21/2018 22:37*	WG1169827
(S) 4-Bromofluorobenzene	*100*				*67.0-138*		*09/23/2018 16:50*	WG1170348

JC 10/19/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.4		1	09/20/2018 11:19	WG1168410

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		1.24	2.26	80	09/23/2018 20:25	WG1170348
Acrylonitrile	U		0.00215	0.0141	1	09/21/2018 22:56	WG1169827
Benzene	U		0.000452	0.00113	1	09/21/2018 22:56	WG1169827
Bromobenzene	U		0.00119	0.0141	1	09/21/2018 22:56	WG1169827
Bromodichloromethane	U		0.000891	0.00283	1	09/21/2018 22:56	WG1169827
Bromochloromethane	U		0.00128	0.00566	1	09/21/2018 22:56	WG1169827
Bromoform	U		0.00676	0.0283	1	09/21/2018 22:56	WG1169827
Bromomethane	U		0.00419	0.0141	1	09/21/2018 22:56	WG1169827
n-Butylbenzene	U		0.00434	0.0141	1	09/21/2018 22:56	WG1169827
sec-Butylbenzene	U		0.00286	0.0141	1	09/21/2018 22:56	WG1169827
tert-Butylbenzene	U		0.00175	0.00566	1	09/21/2018 22:56	WG1169827
Carbon disulfide	U		0.00459	0.0141	1	09/21/2018 22:56	WG1169827
Carbon tetrachloride	U		0.00122	0.00566	1	09/21/2018 22:56	WG1169827
Chlorobenzene	U		0.000648	0.00283	1	09/21/2018 22:56	WG1169827
Chlorodibromomethane	U		0.000509	0.00283	1	09/21/2018 22:56	WG1169827
Chloroethane	U		0.0977	0.452	80	09/23/2018 20:25	WG1170348
Chloroform	U		0.000469	0.00283	1	09/21/2018 22:56	WG1169827
Chloromethane	U		0.00157	0.0141	1	09/21/2018 22:56	WG1169827
2-Chlorotoluene	U		0.00104	0.00283	1	09/21/2018 22:56	WG1169827
4-Chlorotoluene	U		0.00128	0.00566	1	09/21/2018 22:56	WG1169827
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00577	0.0283	1	09/21/2018 22:56	WG1169827
1,2-Dibromoethane	U		0.000594	0.00283	1	09/21/2018 22:56	WG1169827
Dibromomethane	U		0.00113	0.00566	1	09/21/2018 22:56	WG1169827
1,2-Dichlorobenzene	U		0.00164	0.00566	1	09/21/2018 22:56	WG1169827
1,3-Dichlorobenzene	U		0.00192	0.00566	1	09/21/2018 22:56	WG1169827
1,4-Dichlorobenzene	U		0.00223	0.00566	1	09/21/2018 22:56	WG1169827
Dichlorodifluoromethane	U		0.000925	0.00283	1	09/21/2018 22:56	WG1169827
1,1-Dichloroethane	U		0.000650	0.00283	1	09/21/2018 22:56	WG1169827
1,2-Dichloroethane	U		0.000537	0.00283	1	09/21/2018 22:56	WG1169827
1,1-Dichloroethene	U		0.000566	0.00283	1	09/21/2018 22:56	WG1169827
cis-1,2-Dichloroethene	1.06		0.000781	0.00283	1	09/21/2018 22:56	WG1169827
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	09/21/2018 22:56	WG1169827
1,2-Dichloropropane	U		0.115	0.452	80	09/23/2018 20:25	WG1170348
1,1-Dichloropropene	U		0.000792	0.00283	1	09/21/2018 22:56	WG1169827
1,3-Dichloropropane	U		0.00198	0.00566	1	09/21/2018 22:56	WG1169827
cis-1,3-Dichloropropene	U		0.000767	0.00283	1	09/21/2018 22:56	WG1169827
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	09/21/2018 22:56	WG1169827
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00158	0.00566	1	09/21/2018 22:56	WG1169827
2,2-Dichloropropane	U		0.000897	0.00283	1	09/21/2018 22:56	WG1169827
Di-isopropyl ether	U		0.000396	0.00113	1	09/21/2018 22:56	WG1169827
Ethylbenzene	U		0.000600	0.00283	1	09/21/2018 22:56	WG1169827
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/21/2018 22:56	WG1169827
2-Hexanone	U		0.0113	0.0283	1	09/21/2018 22:56	WG1169827
n-Hexane	U		0.00120	0.00566	1	09/21/2018 22:56	WG1169827
Iodomethane	U	J4	0.00684	0.0141	1	09/21/2018 22:56	WG1169827
Isopropylbenzene	U		0.000976	0.00283	1	09/21/2018 22:56	WG1169827
p-Isopropyltoluene	U		0.00264	0.00566	1	09/21/2018 22:56	WG1169827
2-Butanone (MEK)	0.0163 J	J	0.0141	0.0283	1	09/21/2018 22:56	WG1169827
Methylene Chloride	U		0.00751	0.0283	1	09/21/2018 22:56	WG1169827
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/21/2018 22:56	WG1169827

JC 10/19/18

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U			0.000334	0.00113	1	09/21/2018 22:56	WG1169827
Naphthalene	U			0.00353	0.0141	1	09/21/2018 22:56	WG1169827
n-Propylbenzene	U			0.00133	0.00566	1	09/21/2018 22:56	WG1169827
Styrene	U			0.00309	0.0141	1	09/21/2018 22:56	WG1169827
1,1,1,2-Tetrachloroethane	U			0.000566	0.00283	1	09/21/2018 22:56	WG1169827
1,1,2,2-Tetrachloroethane	U			0.000441	0.00283	1	09/21/2018 22:56	WG1169827
1,1,2-Trichlorotrifluoroethane	U			0.000764	0.00283	1	09/21/2018 22:56	WG1169827
Tetrachloroethene	47.1			0.0633	0.226	80	09/23/2018 20:25	WG1170348
Toluene	U			0.00141	0.00566	1	09/21/2018 22:56	WG1169827
1,2,3-Trichlorobenzene	U			0.0566	0.226	80	09/23/2018 20:25	WG1170348
1,2,4-Trichlorobenzene	U			0.00545	0.0141	1	09/21/2018 22:56	WG1169827
1,1,1-Trichloroethane	U			0.000311	0.00283	1	09/21/2018 22:56	WG1169827
1,1,2-Trichloroethane	U			0.000999	0.00283	1	09/21/2018 22:56	WG1169827
Trichloroethene	1.04			0.000452	0.00113	1	09/21/2018 22:56	WG1169827
Trichlorofluoromethane	U			0.000566	0.00283	1	09/21/2018 22:56	WG1169827
1,2,3-Trichloropropane	U			0.00577	0.0141	1	09/21/2018 22:56	WG1169827
1,2,4-Trimethylbenzene	0.00711			0.00131	0.00566	1	09/21/2018 22:56	WG1169827
1,2,3-Trimethylbenzene	0.00306	J	J	0.00130	0.00566	1	09/21/2018 22:56	WG1169827
1,3,5-Trimethylbenzene	0.00241	J	J	0.00122	0.00566	1	09/21/2018 22:56	WG1169827
Vinyl acetate	U	UJ	J0	0.00398	0.0141	1	09/21/2018 22:56	WG1169827
Vinyl chloride	0.0522			0.000773	0.00283	1	09/21/2018 22:56	WG1169827
Xylenes, Total	U			0.00541	0.00735	1	09/21/2018 22:56	WG1169827
(S) Toluene-d8	*88.7*				*75.0-131*		*09/21/2018 22:56*	WG1169827
(S) Toluene-d8	*103*				*75.0-131*		*09/23/2018 20:25*	WG1170348
(S) Dibromofluoromethane	*101*				*65.0-129*		*09/21/2018 22:56*	WG1169827
(S) Dibromofluoromethane	*98.8*				*65.0-129*		*09/23/2018 20:25*	WG1170348
(S) 4-Bromofluorobenzene	*90.8*				*67.0-138*		*09/21/2018 22:56*	WG1169827
(S) 4-Bromofluorobenzene	*100*				*67.0-138*		*09/23/2018 20:25*	WG1170348

Sample Narrative:

L1026432-03 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-03 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

JC 10/19/18

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.2		1	09/20/2018 11:19	WG1168410

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0413 J+		0.0145	0.0265	1	09/23/2018 17:14	WG1170348
Acrylonitrile	U		0.00202	0.0133	1	09/21/2018 23:15	WG1169827
Benzene	U		0.000425	0.00106	1	09/21/2018 23:15	WG1169827
Bromobenzene	U		0.00111	0.0133	1	09/21/2018 23:15	WG1169827
Bromodichloromethane	U		0.000837	0.00265	1	09/21/2018 23:15	WG1169827
Bromochloromethane	U		0.00120	0.00531	1	09/21/2018 23:15	WG1169827
Bromoform	U		0.00635	0.0265	1	09/21/2018 23:15	WG1169827
Bromomethane	U		0.00393	0.0133	1	09/21/2018 23:15	WG1169827
n-Butylbenzene	U		0.00408	0.0133	1	09/21/2018 23:15	WG1169827
sec-Butylbenzene	U		0.00269	0.0133	1	09/21/2018 23:15	WG1169827
tert-Butylbenzene	U		0.00165	0.00531	1	09/21/2018 23:15	WG1169827
Carbon disulfide	U		0.00431	0.0133	1	09/21/2018 23:15	WG1169827
Carbon tetrachloride	U		0.00115	0.00531	1	09/21/2018 23:15	WG1169827
Chlorobenzene	U		0.000608	0.00265	1	09/21/2018 23:15	WG1169827
Chlorodibromomethane	U		0.000478	0.00265	1	09/21/2018 23:15	WG1169827
Chloroethane	U		0.00115	0.00531	1	09/23/2018 17:14	WG1170348
Chloroform	U		0.000441	0.00265	1	09/21/2018 23:15	WG1169827
Chloromethane	U		0.00148	0.0133	1	09/21/2018 23:15	WG1169827
2-Chlorotoluene	U		0.000977	0.00265	1	09/21/2018 23:15	WG1169827
4-Chlorotoluene	U		0.00120	0.00531	1	09/21/2018 23:15	WG1169827
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00542	0.0265	1	09/21/2018 23:15	WG1169827
1,2-Dibromoethane	U		0.000557	0.00265	1	09/21/2018 23:15	WG1169827
Dibromomethane	U		0.00106	0.00531	1	09/21/2018 23:15	WG1169827
1,2-Dichlorobenzene	U		0.00154	0.00531	1	09/21/2018 23:15	WG1169827
1,3-Dichlorobenzene	U		0.00181	0.00531	1	09/21/2018 23:15	WG1169827
1,4-Dichlorobenzene	U		0.00209	0.00531	1	09/21/2018 23:15	WG1169827
Dichlorodifluoromethane	U		0.000869	0.00265	1	09/21/2018 23:15	WG1169827
1,1-Dichloroethane	U		0.000611	0.00265	1	09/21/2018 23:15	WG1169827
1,2-Dichloroethane	U		0.000504	0.00265	1	09/21/2018 23:15	WG1169827
1,1-Dichloroethene	U		0.000531	0.00265	1	09/21/2018 23:15	WG1169827
cis-1,2-Dichloroethene	0.0320		0.000733	0.00265	1	09/21/2018 23:15	WG1169827
trans-1,2-Dichloroethene	U		0.00152	0.00531	1	09/21/2018 23:15	WG1169827
1,2-Dichloropropane	U		0.00135	0.00531	1	09/23/2018 17:14	WG1170348
1,1-Dichloropropene	U		0.000743	0.00265	1	09/21/2018 23:15	WG1169827
1,3-Dichloropropane	U		0.00186	0.00531	1	09/21/2018 23:15	WG1169827
cis-1,3-Dichloropropene	U		0.000720	0.00265	1	09/21/2018 23:15	WG1169827
trans-1,3-Dichloropropene	U		0.00162	0.00531	1	09/21/2018 23:15	WG1169827
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00149	0.00531	1	09/21/2018 23:15	WG1169827
2,2-Dichloropropane	U		0.000842	0.00265	1	09/21/2018 23:15	WG1169827
Di-isopropyl ether	U		0.000372	0.00106	1	09/21/2018 23:15	WG1169827
Ethylbenzene	U		0.000563	0.00265	1	09/21/2018 23:15	WG1169827
Hexachloro-1,3-butadiene	U		0.0135	0.0265	1	09/21/2018 23:15	WG1169827
2-Hexanone	U		0.0106	0.0265	1	09/21/2018 23:15	WG1169827
n-Hexane	U		0.00113	0.00531	1	09/21/2018 23:15	WG1169827
Iodomethane	U	J4	0.00642	0.0133	1	09/21/2018 23:15	WG1169827
Isopropylbenzene	U		0.000916	0.00265	1	09/21/2018 23:15	WG1169827
p-Isopropyltoluene	U		0.00247	0.00531	1	09/21/2018 23:15	WG1169827
2-Butanone (MEK)	U		0.0133	0.0265	1	09/21/2018 23:15	WG1169827
Methylene Chloride	0.00906 J	J	0.00705	0.0265	1	09/21/2018 23:15	WG1169827
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0265	1	09/21/2018 23:15	WG1169827

JC 10/19/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000313	0.00106	1	09/21/2018 23:15	WG1169827
Naphthalene	U		0.00331	0.0133	1	09/21/2018 23:15	WG1169827
n-Propylbenzene	U		0.00125	0.00531	1	09/21/2018 23:15	WG1169827
Styrene	U		0.00290	0.0133	1	09/21/2018 23:15	WG1169827
1,1,1,2-Tetrachloroethane	U		0.000531	0.00265	1	09/21/2018 23:15	WG1169827
1,1,2,2-Tetrachloroethane	U		0.000414	0.00265	1	09/21/2018 23:15	WG1169827
1,1,2-Trichlorotrifluoroethane	U		0.000717	0.00265	1	09/21/2018 23:15	WG1169827
Tetrachloroethene	1.13		0.000743	0.00265	1	09/21/2018 23:15	WG1169827
Toluene	0.00173 J	J	0.00133	0.00531	1	09/21/2018 23:15	WG1169827
1,2,3-Trichlorobenzene	U		0.000664	0.00265	1	09/23/2018 17:14	WG1170348
1,2,4-Trichlorobenzene	U		0.00512	0.0133	1	09/21/2018 23:15	WG1169827
1,1,1-Trichloroethane	U		0.000292	0.00265	1	09/21/2018 23:15	WG1169827
1,1,2-Trichloroethane	U		0.000938	0.00265	1	09/21/2018 23:15	WG1169827
Trichloroethene	0.0340		0.000425	0.00106	1	09/21/2018 23:15	WG1169827
Trichlorofluoromethane	U		0.000531	0.00265	1	09/21/2018 23:15	WG1169827
1,2,3-Trichloropropane	U		0.00542	0.0133	1	09/21/2018 23:15	WG1169827
1,2,4-Trimethylbenzene	U		0.00123	0.00531	1	09/21/2018 23:15	WG1169827
1,2,3-Trimethylbenzene	U		0.00122	0.00531	1	09/21/2018 23:15	WG1169827
1,3,5-Trimethylbenzene	U		0.00115	0.00531	1	09/21/2018 23:15	WG1169827
Vinyl acetate	U UJ	J0	0.00374	0.0133	1	09/21/2018 23:15	WG1169827
Vinyl chloride	U		0.000725	0.00265	1	09/21/2018 23:15	WG1169827
Xylenes, Total	U		0.00508	0.00690	1	09/21/2018 23:15	WG1169827
(S) Toluene-d8	*90.5*			*75.0-131*		*09/21/2018 23:15*	WG1169827
(S) Toluene-d8	*107*			*75.0-131*		*09/23/2018 17:14*	WG1170348
(S) Dibromofluoromethane	*98.4*			*65.0-129*		*09/21/2018 23:15*	WG1169827
(S) Dibromofluoromethane	*101*			*65.0-129*		*09/23/2018 17:14*	WG1170348
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*09/21/2018 23:15*	WG1169827
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*09/23/2018 17:14*	WG1170348

JC 10/19/18

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.2		1	09/20/2018 09:51	WG1168411

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.152 U	J	0.131	0.238	8	09/23/2018 20:49	WG1170348
Acrylonitrile	U		0.00226	0.0148	1	09/21/2018 23:34	WG1169827
Benzene	U		0.000475	0.00119	1	09/21/2018 23:34	WG1169827
Bromobenzene	U		0.00125	0.0148	1	09/21/2018 23:34	WG1169827
Bromodichloromethane	U		0.000936	0.00297	1	09/21/2018 23:34	WG1169827
Bromochloromethane	U		0.00134	0.00594	1	09/21/2018 23:34	WG1169827
Bromoform	U		0.00710	0.0297	1	09/21/2018 23:34	WG1169827
Bromomethane	U		0.00440	0.0148	1	09/21/2018 23:34	WG1169827
n-Butylbenzene	U		0.00456	0.0148	1	09/21/2018 23:34	WG1169827
sec-Butylbenzene	U		0.00301	0.0148	1	09/21/2018 23:34	WG1169827
tert-Butylbenzene	U		0.00184	0.00594	1	09/21/2018 23:34	WG1169827
Carbon disulfide	0.00631 J	J	0.00482	0.0148	1	09/21/2018 23:34	WG1169827
Carbon tetrachloride	U		0.00128	0.00594	1	09/21/2018 23:34	WG1169827
Chlorobenzene	U		0.000681	0.00297	1	09/21/2018 23:34	WG1169827
Chlorodibromomethane	U		0.000535	0.00297	1	09/21/2018 23:34	WG1169827
Chloroethane	U		0.0103	0.0475	8	09/23/2018 20:49	WG1170348
Chloroform	U		0.000493	0.00297	1	09/21/2018 23:34	WG1169827
Chloromethane	U		0.00165	0.0148	1	09/21/2018 23:34	WG1169827
2-Chlorotoluene	U		0.00109	0.00297	1	09/21/2018 23:34	WG1169827
4-Chlorotoluene	U		0.00134	0.00594	1	09/21/2018 23:34	WG1169827
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00606	0.0297	1	09/21/2018 23:34	WG1169827
1,2-Dibromoethane	U		0.000624	0.00297	1	09/21/2018 23:34	WG1169827
Dibromomethane	U		0.00119	0.00594	1	09/21/2018 23:34	WG1169827
1,2-Dichlorobenzene	U		0.00172	0.00594	1	09/21/2018 23:34	WG1169827
1,3-Dichlorobenzene	U		0.00202	0.00594	1	09/21/2018 23:34	WG1169827
1,4-Dichlorobenzene	U		0.00234	0.00594	1	09/21/2018 23:34	WG1169827
Dichlorodifluoromethane	U		0.000972	0.00297	1	09/21/2018 23:34	WG1169827
1,1-Dichloroethane	U		0.000683	0.00297	1	09/21/2018 23:34	WG1169827
1,2-Dichloroethane	U		0.000564	0.00297	1	09/21/2018 23:34	WG1169827
1,1-Dichloroethene	0.0204		0.000594	0.00297	1	09/21/2018 23:34	WG1169827
cis-1,2-Dichloroethene	3.42		0.00656	0.0238	8	09/23/2018 20:49	WG1170348
trans-1,2-Dichloroethene	0.0213		0.00170	0.00594	1	09/21/2018 23:34	WG1169827
1,2-Dichloropropane	U		0.0121	0.0475	8	09/23/2018 20:49	WG1170348
1,1-Dichloropropene	U		0.000832	0.00297	1	09/21/2018 23:34	WG1169827
1,3-Dichloropropane	U		0.00208	0.00594	1	09/21/2018 23:34	WG1169827
cis-1,3-Dichloropropene	U		0.000805	0.00297	1	09/21/2018 23:34	WG1169827
trans-1,3-Dichloropropene	U		0.00182	0.00594	1	09/21/2018 23:34	WG1169827
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00166	0.00594	1	09/21/2018 23:34	WG1169827
2,2-Dichloropropane	U		0.000942	0.00297	1	09/21/2018 23:34	WG1169827
Di-isopropyl ether	U		0.000416	0.00119	1	09/21/2018 23:34	WG1169827
Ethylbenzene	0.000966 J	J	0.000630	0.00297	1	09/21/2018 23:34	WG1169827
Hexachloro-1,3-butadiene	U		0.0151	0.0297	1	09/21/2018 23:34	WG1169827
2-Hexanone	U		0.0119	0.0297	1	09/21/2018 23:34	WG1169827
n-Hexane	U		0.00126	0.00594	1	09/21/2018 23:34	WG1169827
Iodomethane	U	J4	0.00719	0.0148	1	09/21/2018 23:34	WG1169827
Isopropylbenzene	U		0.00103	0.00297	1	09/21/2018 23:34	WG1169827
p-Isopropyltoluene	U		0.00277	0.00594	1	09/21/2018 23:34	WG1169827
2-Butanone (MEK)	0.0167 J	J	0.0148	0.0297	1	09/21/2018 23:34	WG1169827
Methylene Chloride	U		0.00789	0.0297	1	09/21/2018 23:34	WG1169827
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0297	1	09/21/2018 23:34	WG1169827

JC 10/19/18

IW-55B-61
Collected date/time: 09/13/18 18:00

SAMPLE RESULTS - 05

L1026432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000350	0.00119	1	09/21/2018 23:34	WG1169827
Naphthalene	U			0.00371	0.0148	1	09/21/2018 23:34	WG1169827
n-Propylbenzene	U			0.00140	0.00594	1	09/21/2018 23:34	WG1169827
Styrene	U			0.00324	0.0148	1	09/21/2018 23:34	WG1169827
1,1,1,2-Tetrachloroethane	U			0.000594	0.00297	1	09/21/2018 23:34	WG1169827
1,1,2,2-Tetrachloroethane	U			0.000463	0.00297	1	09/21/2018 23:34	WG1169827
1,1,2-Trichlorotrifluoroethane	U			0.000802	0.00297	1	09/21/2018 23:34	WG1169827
Tetrachloroethene	0.343			0.000832	0.00297	1	09/21/2018 23:34	WG1169827
Toluene	0.00745			0.00148	0.00594	1	09/21/2018 23:34	WG1169827
1,2,3-Trichlorobenzene	U			0.00594	0.0238	8	09/23/2018 20:49	WG1170348
1,2,4-Trichlorobenzene	U			0.00573	0.0148	1	09/21/2018 23:34	WG1169827
1,1,1-Trichloroethane	U			0.000327	0.00297	1	09/21/2018 23:34	WG1169827
1,1,2-Trichloroethane	U			0.00105	0.00297	1	09/21/2018 23:34	WG1169827
Trichloroethene	0.0155			0.000475	0.00119	1	09/21/2018 23:34	WG1169827
Trichlorofluoromethane	U			0.000594	0.00297	1	09/21/2018 23:34	WG1169827
1,2,3-Trichloropropane	U			0.00606	0.0148	1	09/21/2018 23:34	WG1169827
1,2,4-Trimethylbenzene	0.00156	J	J	0.00138	0.00594	1	09/21/2018 23:34	WG1169827
1,2,3-Trimethylbenzene	0.00145	J	J	0.00137	0.00594	1	09/21/2018 23:34	WG1169827
1,3,5-Trimethylbenzene	U			0.00128	0.00594	1	09/21/2018 23:34	WG1169827
Vinyl acetate	U	UJ	J0	0.00418	0.0148	1	09/21/2018 23:34	WG1169827
Vinyl chloride	0.341			0.000811	0.00297	1	09/21/2018 23:34	WG1169827
Xylenes, Total	U			0.00568	0.00772	1	09/21/2018 23:34	WG1169827
(S) Toluene-d8	*88.1*				*75.0-131*		*09/21/2018 23:34*	WG1169827
(S) Toluene-d8	*104*				*75.0-131*		*09/23/2018 20:49*	WG1170348
(S) Dibromofluoromethane	*97.2*				*65.0-129*		*09/21/2018 23:34*	WG1169827
(S) Dibromofluoromethane	*99.2*				*65.0-129*		*09/23/2018 20:49*	WG1170348
(S) 4-Bromofluorobenzene	*102*				*67.0-138*		*09/21/2018 23:34*	WG1169827
(S) 4-Bromofluorobenzene	*100*				*67.0-138*		*09/23/2018 20:49*	WG1170348

Sample Narrative:

L1026432-05 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-05 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

JC 10/19/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.1		1	09/20/2018 09:51	WG1168411

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		1.49	2.71	100	09/23/2018 21:13	WG1170348
Acrylonitrile	U		0.00206	0.0136	1	09/21/2018 23:52	WG1169827
Benzene	U		0.000434	0.00109	1	09/21/2018 23:52	WG1169827
Bromobenzene	U		0.00114	0.0136	1	09/21/2018 23:52	WG1169827
Bromodichloromethane	U		0.000855	0.00271	1	09/21/2018 23:52	WG1169827
Bromochloromethane	U		0.00123	0.00543	1	09/21/2018 23:52	WG1169827
Bromoform	U		0.00649	0.0271	1	09/21/2018 23:52	WG1169827
Bromomethane	U		0.00402	0.0136	1	09/21/2018 23:52	WG1169827
n-Butylbenzene	U		0.00417	0.0136	1	09/21/2018 23:52	WG1169827
sec-Butylbenzene	U		0.00275	0.0136	1	09/21/2018 23:52	WG1169827
tert-Butylbenzene	U		0.00168	0.00543	1	09/21/2018 23:52	WG1169827
Carbon disulfide	U		0.00441	0.0136	1	09/21/2018 23:52	WG1169827
Carbon tetrachloride	U		0.00117	0.00543	1	09/21/2018 23:52	WG1169827
Chlorobenzene	U		0.000622	0.00271	1	09/21/2018 23:52	WG1169827
Chlorodibromomethane	U		0.000488	0.00271	1	09/21/2018 23:52	WG1169827
Chloroethane	U		0.117	0.543	100	09/23/2018 21:13	WG1170348
Chloroform	U		0.000450	0.00271	1	09/21/2018 23:52	WG1169827
Chloromethane	U		0.00151	0.0136	1	09/21/2018 23:52	WG1169827
2-Chlorotoluene	U		0.000999	0.00271	1	09/21/2018 23:52	WG1169827
4-Chlorotoluene	U		0.00123	0.00543	1	09/21/2018 23:52	WG1169827
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00554	0.0271	1	09/21/2018 23:52	WG1169827
1,2-Dibromoethane	U		0.000570	0.00271	1	09/21/2018 23:52	WG1169827
Dibromomethane	U		0.00109	0.00543	1	09/21/2018 23:52	WG1169827
1,2-Dichlorobenzene	U		0.00157	0.00543	1	09/21/2018 23:52	WG1169827
1,3-Dichlorobenzene	U		0.00185	0.00543	1	09/21/2018 23:52	WG1169827
1,4-Dichlorobenzene	U		0.00214	0.00543	1	09/21/2018 23:52	WG1169827
Dichlorodifluoromethane	U		0.000888	0.00271	1	09/21/2018 23:52	WG1169827
1,1-Dichloroethane	U		0.000624	0.00271	1	09/21/2018 23:52	WG1169827
1,2-Dichloroethane	U		0.000516	0.00271	1	09/21/2018 23:52	WG1169827
1,1-Dichloroethene	0.00651		0.000543	0.00271	1	09/21/2018 23:52	WG1169827
cis-1,2-Dichloroethene	2.16		0.0749	0.271	100	09/23/2018 21:13	WG1170348
trans-1,2-Dichloroethene	U		0.00155	0.00543	1	09/21/2018 23:52	WG1169827
1,2-Dichloropropane	U		0.138	0.543	100	09/23/2018 21:13	WG1170348
1,1-Dichloropropene	U		0.000760	0.00271	1	09/21/2018 23:52	WG1169827
1,3-Dichloropropane	U		0.00190	0.00543	1	09/21/2018 23:52	WG1169827
cis-1,3-Dichloropropene	U		0.000736	0.00271	1	09/21/2018 23:52	WG1169827
trans-1,3-Dichloropropene	U		0.00166	0.00543	1	09/21/2018 23:52	WG1169827
trans-1,4-Dichloro-2-butene	U	UJ J0	0.00152	0.00543	1	09/21/2018 23:52	WG1169827
2,2-Dichloropropane	U		0.000861	0.00271	1	09/21/2018 23:52	WG1169827
Di-isopropyl ether	U		0.000380	0.00109	1	09/21/2018 23:52	WG1169827
Ethylbenzene	U		0.000575	0.00271	1	09/21/2018 23:52	WG1169827
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	09/21/2018 23:52	WG1169827
2-Hexanone	U		0.0109	0.0271	1	09/21/2018 23:52	WG1169827
n-Hexane	U		0.00115	0.00543	1	09/21/2018 23:52	WG1169827
Iodomethane	U	J4	0.00657	0.0136	1	09/21/2018 23:52	WG1169827
Isopropylbenzene	U		0.000937	0.00271	1	09/21/2018 23:52	WG1169827
p-Isopropyltoluene	U		0.00253	0.00543	1	09/21/2018 23:52	WG1169827
2-Butanone (MEK)	U		0.0136	0.0271	1	09/21/2018 23:52	WG1169827
Methylene Chloride	U		0.00721	0.0271	1	09/21/2018 23:52	WG1169827
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0271	1	09/21/2018 23:52	WG1169827

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IW-12D-42

Collected date/time: 09/14/18 12:35

SAMPLE RESULTS - 06

L1026432

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000320	0.00109	1	09/21/2018 23:52	WG1169827
Naphthalene	U			0.00339	0.0136	1	09/21/2018 23:52	WG1169827
n-Propylbenzene	U			0.00128	0.00543	1	09/21/2018 23:52	WG1169827
Styrene	U			0.00296	0.0136	1	09/21/2018 23:52	WG1169827
1,1,1,2-Tetrachloroethane	U			0.000543	0.00271	1	09/21/2018 23:52	WG1169827
1,1,2,2-Tetrachloroethane	U			0.000423	0.00271	1	09/21/2018 23:52	WG1169827
1,1,2-Trichlorotrifluoroethane	U			0.000733	0.00271	1	09/21/2018 23:52	WG1169827
Tetrachloroethene	55.8			0.0760	0.271	100	09/23/2018 21:13	WG1170348
Toluene	0.00188	J	J	0.00136	0.00543	1	09/21/2018 23:52	WG1169827
1,2,3-Trichlorobenzene	U			0.0678	0.271	100	09/23/2018 21:13	WG1170348
1,2,4-Trichlorobenzene	U			0.00523	0.0136	1	09/21/2018 23:52	WG1169827
1,1,1-Trichloroethane	U			0.000298	0.00271	1	09/21/2018 23:52	WG1169827
1,1,2-Trichloroethane	U			0.000958	0.00271	1	09/21/2018 23:52	WG1169827
Trichloroethene	0.491			0.000434	0.00109	1	09/21/2018 23:52	WG1169827
Trichlorofluoromethane	U			0.000543	0.00271	1	09/21/2018 23:52	WG1169827
1,2,3-Trichloropropane	U			0.00554	0.0136	1	09/21/2018 23:52	WG1169827
1,2,4-Trimethylbenzene	0.00460	J	J	0.00126	0.00543	1	09/21/2018 23:52	WG1169827
1,2,3-Trimethylbenzene	0.00197	J	J	0.00125	0.00543	1	09/21/2018 23:52	WG1169827
1,3,5-Trimethylbenzene	0.00184	J	J	0.00117	0.00543	1	09/21/2018 23:52	WG1169827
Vinyl acetate	U	UJ	J0	0.00382	0.0136	1	09/21/2018 23:52	WG1169827
Vinyl chloride	0.132			0.000741	0.00271	1	09/21/2018 23:52	WG1169827
Xylenes, Total	U			0.00519	0.00706	1	09/21/2018 23:52	WG1169827
(S) Toluene-d8	*114*				*75.0-131*		*09/21/2018 23:52*	WG1169827
(S) Toluene-d8	*103*				*75.0-131*		*09/23/2018 21:13*	WG1170348
(S) Dibromofluoromethane	*99.5*				*65.0-129*		*09/21/2018 23:52*	WG1169827
(S) Dibromofluoromethane	*99.8*				*65.0-129*		*09/23/2018 21:13*	WG1170348
(S) 4-Bromofluorobenzene	*94.8*				*67.0-138*		*09/21/2018 23:52*	WG1169827
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/23/2018 21:13*	WG1170348

Sample Narrative:

L1026432-06 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-06 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	92.0		1	09/20/2018 09:51	WG1168411

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.49	2.72	100	09/23/2018 21:37	WG1170348
Acrylonitrile	U		0.00206	0.0136	1	09/22/2018 00:11	WG1169827
Benzene	U		0.000435	0.00109	1	09/22/2018 00:11	WG1169827
Bromobenzene	U		0.00114	0.0136	1	09/22/2018 00:11	WG1169827
Bromodichloromethane	U		0.000856	0.00272	1	09/22/2018 00:11	WG1169827
Bromochloromethane	U		0.00123	0.00543	1	09/22/2018 00:11	WG1169827
Bromoform	U		0.00650	0.0272	1	09/22/2018 00:11	WG1169827
Bromomethane	U		0.00402	0.0136	1	09/22/2018 00:11	WG1169827
n-Butylbenzene	U		0.00417	0.0136	1	09/22/2018 00:11	WG1169827
sec-Butylbenzene	U		0.00275	0.0136	1	09/22/2018 00:11	WG1169827
tert-Butylbenzene	U		0.00168	0.00543	1	09/22/2018 00:11	WG1169827
Carbon disulfide	U		0.00441	0.0136	1	09/22/2018 00:11	WG1169827
Carbon tetrachloride	U		0.00117	0.00543	1	09/22/2018 00:11	WG1169827
Chlorobenzene	U		0.000623	0.00272	1	09/22/2018 00:11	WG1169827
Chlorodibromomethane	U		0.000489	0.00272	1	09/22/2018 00:11	WG1169827
Chloroethane	U		0.117	0.543	100	09/23/2018 21:37	WG1170348
Chloroform	U		0.000451	0.00272	1	09/22/2018 00:11	WG1169827
Chloromethane	U		0.00151	0.0136	1	09/22/2018 00:11	WG1169827
2-Chlorotoluene	U		0.00100	0.00272	1	09/22/2018 00:11	WG1169827
4-Chlorotoluene	U		0.00123	0.00543	1	09/22/2018 00:11	WG1169827
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00554	0.0272	1	09/22/2018 00:11	WG1169827
1,2-Dibromoethane	U		0.000570	0.00272	1	09/22/2018 00:11	WG1169827
Dibromomethane	U		0.00109	0.00543	1	09/22/2018 00:11	WG1169827
1,2-Dichlorobenzene	U		0.00158	0.00543	1	09/22/2018 00:11	WG1169827
1,3-Dichlorobenzene	U		0.00185	0.00543	1	09/22/2018 00:11	WG1169827
1,4-Dichlorobenzene	U		0.00214	0.00543	1	09/22/2018 00:11	WG1169827
Dichlorodifluoromethane	U		0.000889	0.00272	1	09/22/2018 00:11	WG1169827
1,1-Dichloroethane	U		0.000625	0.00272	1	09/22/2018 00:11	WG1169827
1,2-Dichloroethane	U		0.000516	0.00272	1	09/22/2018 00:11	WG1169827
1,1-Dichloroethene	0.00321		0.000543	0.00272	1	09/22/2018 00:11	WG1169827
cis-1,2-Dichloroethene	1.88		0.000750	0.00272	1	09/22/2018 00:11	WG1169827
trans-1,2-Dichloroethene	U		0.00155	0.00543	1	09/22/2018 00:11	WG1169827
1,2-Dichloropropane	U		0.138	0.543	100	09/23/2018 21:37	WG1170348
1,1-Dichloropropene	U		0.000761	0.00272	1	09/22/2018 00:11	WG1169827
1,3-Dichloropropane	U		0.00190	0.00543	1	09/22/2018 00:11	WG1169827
cis-1,3-Dichloropropene	U		0.000737	0.00272	1	09/22/2018 00:11	WG1169827
trans-1,3-Dichloropropene	U		0.00166	0.00543	1	09/22/2018 00:11	WG1169827
trans-1,4-Dichloro-2-butene	U	UJ J0	0.00152	0.00543	1	09/22/2018 00:11	WG1169827
2,2-Dichloropropane	U		0.000862	0.00272	1	09/22/2018 00:11	WG1169827
Di-isopropyl ether	U		0.000380	0.00109	1	09/22/2018 00:11	WG1169827
Ethylbenzene	U		0.000576	0.00272	1	09/22/2018 00:11	WG1169827
Hexachloro-1,3-butadiene	U		0.0138	0.0272	1	09/22/2018 00:11	WG1169827
2-Hexanone	U		0.0109	0.0272	1	09/22/2018 00:11	WG1169827
n-Hexane	U		0.00115	0.00543	1	09/22/2018 00:11	WG1169827
Iodomethane	U	J4	0.00657	0.0136	1	09/22/2018 00:11	WG1169827
Isopropylbenzene	U		0.000938	0.00272	1	09/22/2018 00:11	WG1169827
p-Isopropyltoluene	U		0.00253	0.00543	1	09/22/2018 00:11	WG1169827
2-Butanone (MEK)	U		0.0136	0.0272	1	09/22/2018 00:11	WG1169827
Methylene Chloride	U		0.00721	0.0272	1	09/22/2018 00:11	WG1169827
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	09/22/2018 00:11	WG1169827

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00109	1	09/22/2018 00:11	WG1169827
Naphthalene	U		0.00339	0.0136	1	09/22/2018 00:11	WG1169827
n-Propylbenzene	U		0.00128	0.00543	1	09/22/2018 00:11	WG1169827
Styrene	U		0.00297	0.0136	1	09/22/2018 00:11	WG1169827
1,1,1,2-Tetrachloroethane	U		0.000543	0.00272	1	09/22/2018 00:11	WG1169827
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	09/22/2018 00:11	WG1169827
1,1,2-Trichlorotrifluoroethane	U		0.000733	0.00272	1	09/22/2018 00:11	WG1169827
Tetrachloroethene	50.8		0.0761	0.272	100	09/23/2018 21:37	WG1170348
Toluene	0.00326	J J	0.00136	0.00543	1	09/22/2018 00:11	WG1169827
1,2,3-Trichlorobenzene	U		0.0679	0.272	100	09/23/2018 21:37	WG1170348
1,2,4-Trichlorobenzene	U		0.00524	0.0136	1	09/22/2018 00:11	WG1169827
1,1,1-Trichloroethane	U		0.000299	0.00272	1	09/22/2018 00:11	WG1169827
1,1,2-Trichloroethane	U		0.000959	0.00272	1	09/22/2018 00:11	WG1169827
Trichloroethene	0.401		0.000435	0.00109	1	09/22/2018 00:11	WG1169827
Trichlorofluoromethane	U		0.000543	0.00272	1	09/22/2018 00:11	WG1169827
1,2,3-Trichloropropane	U		0.00554	0.0136	1	09/22/2018 00:11	WG1169827
1,2,4-Trimethylbenzene	0.00425	J J	0.00126	0.00543	1	09/22/2018 00:11	WG1169827
1,2,3-Trimethylbenzene	0.00215	J J	0.00125	0.00543	1	09/22/2018 00:11	WG1169827
1,3,5-Trimethylbenzene	U		0.00117	0.00543	1	09/22/2018 00:11	WG1169827
Vinyl acetate	U	UJ J0	0.00382	0.0136	1	09/22/2018 00:11	WG1169827
Vinyl chloride	0.105		0.000742	0.00272	1	09/22/2018 00:11	WG1169827
Xylenes, Total	U		0.00519	0.00706	1	09/22/2018 00:11	WG1169827
(S) Toluene-d8	*103*			*75.0-131*		*09/22/2018 00:11*	WG1169827
(S) Toluene-d8	*102*			*75.0-131*		*09/23/2018 21:37*	WG1170348
(S) Dibromofluoromethane	*96.5*			*65.0-129*		*09/22/2018 00:11*	WG1169827
(S) Dibromofluoromethane	*100*			*65.0-129*		*09/23/2018 21:37*	WG1170348
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*		*09/22/2018 00:11*	WG1169827
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/23/2018 21:37*	WG1170348

Sample Narrative:

L1026432-07 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-07 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.4		1	09/20/2018 09:51	WG1168411

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		3.00	5.47	200	09/23/2018 22:01	WG1170348
Acrylonitrile	U		0.00208	0.0137	1	09/22/2018 00:30	WG1169827
Benzene	U		0.000437	0.00109	1	09/22/2018 00:30	WG1169827
Bromobenzene	U		0.00115	0.0137	1	09/22/2018 00:30	WG1169827
Bromodichloromethane	U		0.000862	0.00273	1	09/22/2018 00:30	WG1169827
Bromochloromethane	U		0.00124	0.00547	1	09/22/2018 00:30	WG1169827
Bromoform	U		0.00654	0.0273	1	09/22/2018 00:30	WG1169827
Bromomethane	U		0.00405	0.0137	1	09/22/2018 00:30	WG1169827
n-Butylbenzene	U		0.00420	0.0137	1	09/22/2018 00:30	WG1169827
sec-Butylbenzene	U		0.00277	0.0137	1	09/22/2018 00:30	WG1169827
tert-Butylbenzene	U		0.00170	0.00547	1	09/22/2018 00:30	WG1169827
Carbon disulfide	U		0.00444	0.0137	1	09/22/2018 00:30	WG1169827
Carbon tetrachloride	U		0.00118	0.00547	1	09/22/2018 00:30	WG1169827
Chlorobenzene	U		0.000627	0.00273	1	09/22/2018 00:30	WG1169827
Chlorodibromomethane	U		0.000492	0.00273	1	09/22/2018 00:30	WG1169827
Chloroethane	U		0.236	1.09	200	09/23/2018 22:01	WG1170348
Chloroform	U		0.000454	0.00273	1	09/22/2018 00:30	WG1169827
Chloromethane	U		0.00152	0.0137	1	09/22/2018 00:30	WG1169827
2-Chlorotoluene	U		0.00101	0.00273	1	09/22/2018 00:30	WG1169827
4-Chlorotoluene	U		0.00124	0.00547	1	09/22/2018 00:30	WG1169827
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00558	0.0273	1	09/22/2018 00:30	WG1169827
1,2-Dibromoethane	U		0.000574	0.00273	1	09/22/2018 00:30	WG1169827
Dibromomethane	U		0.00109	0.00547	1	09/22/2018 00:30	WG1169827
1,2-Dichlorobenzene	U		0.00159	0.00547	1	09/22/2018 00:30	WG1169827
1,3-Dichlorobenzene	U		0.00186	0.00547	1	09/22/2018 00:30	WG1169827
1,4-Dichlorobenzene	U		0.00215	0.00547	1	09/22/2018 00:30	WG1169827
Dichlorodifluoromethane	U		0.000895	0.00273	1	09/22/2018 00:30	WG1169827
1,1-Dichloroethane	U		0.000629	0.00273	1	09/22/2018 00:30	WG1169827
1,2-Dichloroethane	U		0.000519	0.00273	1	09/22/2018 00:30	WG1169827
1,1-Dichloroethene	0.0102		0.000547	0.00273	1	09/22/2018 00:30	WG1169827
cis-1,2-Dichloroethene	1.04		0.000755	0.00273	1	09/22/2018 00:30	WG1169827
trans-1,2-Dichloroethene	0.0126		0.00156	0.00547	1	09/22/2018 00:30	WG1169827
1,2-Dichloropropane	U		0.278	1.09	200	09/23/2018 22:01	WG1170348
1,1-Dichloropropene	U		0.000766	0.00273	1	09/22/2018 00:30	WG1169827
1,3-Dichloropropane	U		0.00191	0.00547	1	09/22/2018 00:30	WG1169827
cis-1,3-Dichloropropene	U		0.000741	0.00273	1	09/22/2018 00:30	WG1169827
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	09/22/2018 00:30	WG1169827
trans-1,4-Dichloro-2-butene	U	UJ J0	0.00153	0.00547	1	09/22/2018 00:30	WG1169827
2,2-Dichloropropane	U		0.000867	0.00273	1	09/22/2018 00:30	WG1169827
Di-isopropyl ether	U		0.000383	0.00109	1	09/22/2018 00:30	WG1169827
Ethylbenzene	U		0.000580	0.00273	1	09/22/2018 00:30	WG1169827
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/22/2018 00:30	WG1169827
2-Hexanone	U		0.0109	0.0273	1	09/22/2018 00:30	WG1169827
n-Hexane	U		0.00116	0.00547	1	09/22/2018 00:30	WG1169827
Iodomethane	U	J4	0.00662	0.0137	1	09/22/2018 00:30	WG1169827
Isopropylbenzene	U		0.000944	0.00273	1	09/22/2018 00:30	WG1169827
p-Isopropyltoluene	U		0.00255	0.00547	1	09/22/2018 00:30	WG1169827
2-Butanone (MEK)	U		0.0137	0.0273	1	09/22/2018 00:30	WG1169827
Methylene Chloride	0.00902	J J	0.00726	0.0273	1	09/22/2018 00:30	WG1169827
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/22/2018 00:30	WG1169827

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000323	0.00109	1	09/22/2018 00:30	WG1169827
Naphthalene	U			0.00341	0.0137	1	09/22/2018 00:30	WG1169827
n-Propylbenzene	U			0.00129	0.00547	1	09/22/2018 00:30	WG1169827
Styrene	U			0.00299	0.0137	1	09/22/2018 00:30	WG1169827
1,1,1,2-Tetrachloroethane	U			0.000547	0.00273	1	09/22/2018 00:30	WG1169827
1,1,2,2-Tetrachloroethane	U			0.000427	0.00273	1	09/22/2018 00:30	WG1169827
1,1,2-Trichlorotrifluoroethane	U			0.000738	0.00273	1	09/22/2018 00:30	WG1169827
Tetrachloroethene	54.4			0.153	0.547	200	09/23/2018 22:01	WG1170348
Toluene	0.00427	J	J	0.00137	0.00547	1	09/22/2018 00:30	WG1169827
1,2,3-Trichlorobenzene	U			0.137	0.547	200	09/23/2018 22:01	WG1170348
1,2,4-Trichlorobenzene	U			0.00527	0.0137	1	09/22/2018 00:30	WG1169827
1,1,1-Trichloroethane	U			0.000301	0.00273	1	09/22/2018 00:30	WG1169827
1,1,2-Trichloroethane	U			0.000966	0.00273	1	09/22/2018 00:30	WG1169827
Trichloroethene	1.51			0.000437	0.00109	1	09/22/2018 00:30	WG1169827
Trichlorofluoromethane	U			0.000547	0.00273	1	09/22/2018 00:30	WG1169827
1,2,3-Trichloropropane	U			0.00558	0.0137	1	09/22/2018 00:30	WG1169827
1,2,4-Trimethylbenzene	0.00512	J	J	0.00127	0.00547	1	09/22/2018 00:30	WG1169827
1,2,3-Trimethylbenzene	0.00233	J	J	0.00126	0.00547	1	09/22/2018 00:30	WG1169827
1,3,5-Trimethylbenzene	0.00197	J	J	0.00118	0.00547	1	09/22/2018 00:30	WG1169827
Vinyl acetate	U	UJ	J0	0.00385	0.0137	1	09/22/2018 00:30	WG1169827
Vinyl chloride	0.0585			0.000747	0.00273	1	09/22/2018 00:30	WG1169827
Xylenes, Total	U			0.00523	0.00711	1	09/22/2018 00:30	WG1169827
(S) Toluene-d8	*112*				*75.0-131*		*09/22/2018 00:30*	WG1169827
(S) Toluene-d8	*102*				*75.0-131*		*09/23/2018 22:01*	WG1170348
(S) Dibromofluoromethane	*96.2*				*65.0-129*		*09/22/2018 00:30*	WG1169827
(S) Dibromofluoromethane	*99.9*				*65.0-129*		*09/23/2018 22:01*	WG1170348
(S) 4-Bromofluorobenzene	*98.1*				*67.0-138*		*09/22/2018 00:30*	WG1169827
(S) 4-Bromofluorobenzene	*100*				*67.0-138*		*09/23/2018 22:01*	WG1170348

Sample Narrative:

L1026432-08 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-08 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

JC 10/19/18

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.8		1	09/20/2018 09:51	WG1168411

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.309	0.563	20	09/23/2018 22:24	WG1170348
Acrylonitrile	U		0.00214	0.0141	1	09/22/2018 00:49	WG1169827
Benzene	U		0.000451	0.00113	1	09/22/2018 00:49	WG1169827
Bromobenzene	U		0.00118	0.0141	1	09/22/2018 00:49	WG1169827
Bromodichloromethane	U		0.000888	0.00282	1	09/22/2018 00:49	WG1169827
Bromochloromethane	U		0.00127	0.00563	1	09/22/2018 00:49	WG1169827
Bromoform	U		0.00674	0.0282	1	09/22/2018 00:49	WG1169827
Bromomethane	U		0.00417	0.0141	1	09/22/2018 00:49	WG1169827
n-Butylbenzene	U		0.00433	0.0141	1	09/22/2018 00:49	WG1169827
sec-Butylbenzene	U		0.00285	0.0141	1	09/22/2018 00:49	WG1169827
tert-Butylbenzene	U		0.00175	0.00563	1	09/22/2018 00:49	WG1169827
Carbon disulfide	U		0.00457	0.0141	1	09/22/2018 00:49	WG1169827
Carbon tetrachloride	U		0.00122	0.00563	1	09/22/2018 00:49	WG1169827
Chlorobenzene	U		0.000645	0.00282	1	09/22/2018 00:49	WG1169827
Chlorodibromomethane	U		0.000507	0.00282	1	09/22/2018 00:49	WG1169827
Chloroethane	U		0.0243	0.113	20	09/23/2018 22:24	WG1170348
Chloroform	U		0.000467	0.00282	1	09/22/2018 00:49	WG1169827
Chloromethane	U		0.00157	0.0141	1	09/22/2018 00:49	WG1169827
2-Chlorotoluene	U		0.00104	0.00282	1	09/22/2018 00:49	WG1169827
4-Chlorotoluene	U		0.00127	0.00563	1	09/22/2018 00:49	WG1169827
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00574	0.0282	1	09/22/2018 00:49	WG1169827
1,2-Dibromoethane	U		0.000591	0.00282	1	09/22/2018 00:49	WG1169827
Dibromomethane	U		0.00113	0.00563	1	09/22/2018 00:49	WG1169827
1,2-Dichlorobenzene	U		0.00163	0.00563	1	09/22/2018 00:49	WG1169827
1,3-Dichlorobenzene	U		0.00191	0.00563	1	09/22/2018 00:49	WG1169827
1,4-Dichlorobenzene	U		0.00222	0.00563	1	09/22/2018 00:49	WG1169827
Dichlorodifluoromethane	U		0.000921	0.00282	1	09/22/2018 00:49	WG1169827
1,1-Dichloroethane	U		0.000648	0.00282	1	09/22/2018 00:49	WG1169827
1,2-Dichloroethane	U		0.000535	0.00282	1	09/22/2018 00:49	WG1169827
1,1-Dichloroethene	U		0.000563	0.00282	1	09/22/2018 00:49	WG1169827
cis-1,2-Dichloroethene	0.566		0.000777	0.00282	1	09/22/2018 00:49	WG1169827
trans-1,2-Dichloroethene	U		0.00161	0.00563	1	09/22/2018 00:49	WG1169827
1,2-Dichloropropane	U		0.0286	0.113	20	09/23/2018 22:24	WG1170348
1,1-Dichloropropene	U		0.000788	0.00282	1	09/22/2018 00:49	WG1169827
1,3-Dichloropropane	U		0.00197	0.00563	1	09/22/2018 00:49	WG1169827
cis-1,3-Dichloropropene	U		0.000764	0.00282	1	09/22/2018 00:49	WG1169827
trans-1,3-Dichloropropene	U		0.00172	0.00563	1	09/22/2018 00:49	WG1169827
trans-1,4-Dichloro-2-butene	U	UJ J0	0.00158	0.00563	1	09/22/2018 00:49	WG1169827
2,2-Dichloropropane	U		0.000893	0.00282	1	09/22/2018 00:49	WG1169827
Di-isopropyl ether	U		0.000394	0.00113	1	09/22/2018 00:49	WG1169827
Ethylbenzene	U		0.000597	0.00282	1	09/22/2018 00:49	WG1169827
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	09/22/2018 00:49	WG1169827
2-Hexanone	U		0.0113	0.0282	1	09/22/2018 00:49	WG1169827
n-Hexane	U		0.00119	0.00563	1	09/22/2018 00:49	WG1169827
Iodomethane	U	J4	0.00681	0.0141	1	09/22/2018 00:49	WG1169827
Isopropylbenzene	U		0.000972	0.00282	1	09/22/2018 00:49	WG1169827
p-Isopropyltoluene	U		0.00262	0.00563	1	09/22/2018 00:49	WG1169827
2-Butanone (MEK)	U		0.0141	0.0282	1	09/22/2018 00:49	WG1169827
Methylene Chloride	0.0109	J J	0.00748	0.0282	1	09/22/2018 00:49	WG1169827
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	09/22/2018 00:49	WG1169827

JC 10/19/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000332	0.00113	1	09/22/2018 00:49	WG1169827
Naphthalene	U			0.00351	0.0141	1	09/22/2018 00:49	WG1169827
n-Propylbenzene	U			0.00133	0.00563	1	09/22/2018 00:49	WG1169827
Styrene	U			0.00307	0.0141	1	09/22/2018 00:49	WG1169827
1,1,1,2-Tetrachloroethane	U			0.000563	0.00282	1	09/22/2018 00:49	WG1169827
1,1,2,2-Tetrachloroethane	U			0.000439	0.00282	1	09/22/2018 00:49	WG1169827
1,1,2-Trichlorotrifluoroethane	U			0.000760	0.00282	1	09/22/2018 00:49	WG1169827
Tetrachloroethene	9.63			0.0158	0.0563	20	09/23/2018 22:24	WG1170348
Toluene	0.00436	J	J	0.00141	0.00563	1	09/22/2018 00:49	WG1169827
1,2,3-Trichlorobenzene	U			0.0141	0.0563	20	09/23/2018 22:24	WG1170348
1,2,4-Trichlorobenzene	U			0.00543	0.0141	1	09/22/2018 00:49	WG1169827
1,1,1-Trichloroethane	U			0.000310	0.00282	1	09/22/2018 00:49	WG1169827
1,1,2-Trichloroethane	U			0.000995	0.00282	1	09/22/2018 00:49	WG1169827
Trichloroethene	0.347			0.000451	0.00113	1	09/22/2018 00:49	WG1169827
Trichlorofluoromethane	U			0.000563	0.00282	1	09/22/2018 00:49	WG1169827
1,2,3-Trichloropropane	U			0.00574	0.0141	1	09/22/2018 00:49	WG1169827
1,2,4-Trimethylbenzene	U			0.00131	0.00563	1	09/22/2018 00:49	WG1169827
1,2,3-Trimethylbenzene	U			0.00130	0.00563	1	09/22/2018 00:49	WG1169827
1,3,5-Trimethylbenzene	U			0.00122	0.00563	1	09/22/2018 00:49	WG1169827
Vinyl acetate	U	UJ	J0	0.00396	0.0141	1	09/22/2018 00:49	WG1169827
Vinyl chloride	0.0123			0.000769	0.00282	1	09/22/2018 00:49	WG1169827
Xylenes, Total	U			0.00538	0.00732	1	09/22/2018 00:49	WG1169827
(S) Toluene-d8	*102*				*75.0-131*		*09/22/2018 00:49*	WG1169827
(S) Toluene-d8	*101*				*75.0-131*		*09/23/2018 22:24*	WG1170348
(S) Dibromofluoromethane	*97.5*				*65.0-129*		*09/22/2018 00:49*	WG1169827
(S) Dibromofluoromethane	*102*				*65.0-129*		*09/23/2018 22:24*	WG1170348
(S) 4-Bromofluorobenzene	*98.4*				*67.0-138*		*09/22/2018 00:49*	WG1169827
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/23/2018 22:24*	WG1170348

Sample Narrative:

L1026432-09 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-09 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

JC 10/19/18

BLANK-091418

Collected date/time: 09/14/18 00:00

SAMPLE RESULTS - 10

L1026432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	5.26	J	1.05	25.0	1	09/18/2018 13:29	WG1167535
Acrylonitrile	U		0.873	5.00	1	09/18/2018 13:29	WG1167535
Benzene	U		0.0896	0.500	1	09/18/2018 13:29	WG1167535
Bromobenzene	U		0.133	0.500	1	09/18/2018 13:29	WG1167535
Bromodichloromethane	U		0.0800	0.500	1	09/18/2018 13:29	WG1167535
Bromochloromethane	U		0.145	0.500	1	09/18/2018 13:29	WG1167535
Bromoform	U		0.186	0.500	1	09/18/2018 13:29	WG1167535
Bromomethane	U		0.157	2.50	1	09/18/2018 13:29	WG1167535
n-Butylbenzene	U		0.143	0.500	1	09/18/2018 13:29	WG1167535
sec-Butylbenzene	U		0.134	0.500	1	09/18/2018 13:29	WG1167535
tert-Butylbenzene	U		0.183	0.500	1	09/18/2018 13:29	WG1167535
Carbon disulfide	U		0.101	0.500	1	09/18/2018 13:29	WG1167535
Carbon tetrachloride	U		0.159	0.500	1	09/18/2018 13:29	WG1167535
Chlorobenzene	U		0.140	0.500	1	09/18/2018 13:29	WG1167535
Chlorodibromomethane	U		0.128	0.500	1	09/18/2018 13:29	WG1167535
Chloroethane	U		0.141	2.50	1	09/18/2018 13:29	WG1167535
Chloroform	U		0.0860	0.500	1	09/18/2018 13:29	WG1167535
Chloromethane	U		0.153	1.25	1	09/18/2018 13:29	WG1167535
2-Chlorotoluene	U		0.111	0.500	1	09/18/2018 13:29	WG1167535
4-Chlorotoluene	U		0.0972	0.500	1	09/18/2018 13:29	WG1167535
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/18/2018 13:29	WG1167535
1,2-Dibromoethane	U		0.193	0.500	1	09/18/2018 13:29	WG1167535
Dibromomethane	U		0.117	0.500	1	09/18/2018 13:29	WG1167535
1,2-Dichlorobenzene	U		0.101	0.500	1	09/18/2018 13:29	WG1167535
1,3-Dichlorobenzene	U		0.130	0.500	1	09/18/2018 13:29	WG1167535
1,4-Dichlorobenzene	U		0.121	0.500	1	09/18/2018 13:29	WG1167535
Dichlorodifluoromethane	U		0.127	2.50	1	09/18/2018 13:29	WG1167535
1,1-Dichloroethane	U		0.114	0.500	1	09/18/2018 13:29	WG1167535
1,2-Dichloroethane	U		0.108	0.500	1	09/18/2018 13:29	WG1167535
1,1-Dichloroethene	U		0.188	0.500	1	09/18/2018 13:29	WG1167535
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/18/2018 13:29	WG1167535
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/18/2018 13:29	WG1167535
1,2-Dichloropropane	U		0.190	0.500	1	09/18/2018 13:29	WG1167535
1,1-Dichloropropene	U		0.128	0.500	1	09/18/2018 13:29	WG1167535
1,3-Dichloropropane	U		0.147	1.00	1	09/18/2018 13:29	WG1167535
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/18/2018 13:29	WG1167535
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/18/2018 13:29	WG1167535
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/18/2018 13:29	WG1167535
2,2-Dichloropropane	U		0.0929	0.500	1	09/18/2018 13:29	WG1167535
Di-isopropyl ether	U		0.0924	0.500	1	09/18/2018 13:29	WG1167535
Ethylbenzene	U		0.158	0.500	1	09/18/2018 13:29	WG1167535
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/18/2018 13:29	WG1167535
2-Hexanone	U		0.757	5.00	1	09/18/2018 13:29	WG1167535
n-Hexane	U		0.305	5.00	1	09/18/2018 13:29	WG1167535
Iodomethane	U		0.377	10.0	1	09/18/2018 13:29	WG1167535
Isopropylbenzene	U		0.126	0.500	1	09/18/2018 13:29	WG1167535
p-Isopropyltoluene	U		0.138	0.500	1	09/18/2018 13:29	WG1167535
2-Butanone (MEK)	U		1.28	5.00	1	09/18/2018 13:29	WG1167535
Methylene Chloride	U		1.07	2.50	1	09/18/2018 13:29	WG1167535
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/18/2018 13:29	WG1167535
Methyl tert-butyl ether	U		0.102	0.500	1	09/18/2018 13:29	WG1167535
Naphthalene	U		0.174	2.50	1	09/18/2018 13:29	WG1167535
n-Propylbenzene	U		0.162	0.500	1	09/18/2018 13:29	WG1167535
Styrene	U		0.117	0.500	1	09/18/2018 13:29	WG1167535
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/18/2018 13:29	WG1167535
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/18/2018 13:29	WG1167535

JC 10/19/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/18/2018 13:29	WG1167535
Tetrachloroethene	U		0.199	0.500	1	09/18/2018 13:29	WG1167535
Toluene	U		0.412	0.500	1	09/18/2018 13:29	WG1167535
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/18/2018 13:29	WG1167535
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/18/2018 13:29	WG1167535
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/18/2018 13:29	WG1167535
1,1,2-Trichloroethane	U		0.186	0.500	1	09/18/2018 13:29	WG1167535
Trichloroethene	U		0.153	0.500	1	09/18/2018 13:29	WG1167535
Trichlorofluoromethane	U		0.130	2.50	1	09/18/2018 13:29	WG1167535
1,2,3-Trichloropropane	U		0.247	2.50	1	09/18/2018 13:29	WG1167535
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/18/2018 13:29	WG1167535
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/18/2018 13:29	WG1167535
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/18/2018 13:29	WG1167535
Vinyl acetate	U		0.645	5.00	1	09/18/2018 13:29	WG1167535
Vinyl chloride	U		0.118	0.500	1	09/18/2018 13:29	WG1167535
Xylenes, Total	U		0.316	1.50	1	09/18/2018 13:29	WG1167535
(S) Toluene-d8	*103*			*80.0-120*		*09/18/2018 13:29*	WG1167535
(S) Dibromofluoromethane	*101*			*75.0-120*		*09/18/2018 13:29*	WG1167535
(S) 4-Bromofluorobenzene	*86.4*			*77.0-126*		*09/18/2018 13:29*	WG1167535

JC 10/19/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.6		1	09/27/2018 14:37	WG1172388

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		1.21	2.21	80	10/01/2018 17:18	WG1173651
Acrylonitrile	U		0.00210	0.0138	1	09/29/2018 15:46	WG1173458
Benzene	U		0.000441	0.00110	1	09/29/2018 15:46	WG1173458
Bromobenzene	U		0.00116	0.0138	1	09/29/2018 15:46	WG1173458
Bromodichloromethane	U		0.000869	0.00276	1	09/29/2018 15:46	WG1173458
Bromochloromethane	U		0.00125	0.00552	1	09/29/2018 15:46	WG1173458
Bromoform	U		0.00660	0.0276	1	09/29/2018 15:46	WG1173458
Bromomethane	U		0.00408	0.0138	1	09/29/2018 15:46	WG1173458
n-Butylbenzene	U		0.00424	0.0138	1	09/29/2018 15:46	WG1173458
sec-Butylbenzene	U		0.00279	0.0138	1	09/29/2018 15:46	WG1173458
tert-Butylbenzene	U		0.00171	0.00552	1	09/29/2018 15:46	WG1173458
Carbon disulfide	U		0.00448	0.0138	1	09/29/2018 15:46	WG1173458
Carbon tetrachloride	U		0.00119	0.00552	1	09/29/2018 15:46	WG1173458
Chlorobenzene	U		0.000632	0.00276	1	09/29/2018 15:46	WG1173458
Chlorodibromomethane	U		0.000496	0.00276	1	09/29/2018 15:46	WG1173458
Chloroethane	U		0.00119	0.00552	1	09/29/2018 15:46	WG1173458
Chloroform	U		0.000458	0.00276	1	09/29/2018 15:46	WG1173458
Chloromethane	U		0.00153	0.0138	1	09/29/2018 15:46	WG1173458
2-Chlorotoluene	U		0.00102	0.00276	1	09/29/2018 15:46	WG1173458
4-Chlorotoluene	U		0.00125	0.00552	1	09/29/2018 15:46	WG1173458
1,2-Dibromo-3-Chloropropane	U		0.00563	0.0276	1	09/29/2018 15:46	WG1173458
1,2-Dibromoethane	U		0.000579	0.00276	1	09/29/2018 15:46	WG1173458
Dibromomethane	U		0.00110	0.00552	1	09/29/2018 15:46	WG1173458
1,2-Dichlorobenzene	U		0.00160	0.00552	1	09/29/2018 15:46	WG1173458
1,3-Dichlorobenzene	U		0.00188	0.00552	1	09/29/2018 15:46	WG1173458
1,4-Dichlorobenzene	U		0.00217	0.00552	1	09/29/2018 15:46	WG1173458
Dichlorodifluoromethane	U		0.000903	0.00276	1	09/29/2018 15:46	WG1173458
1,1-Dichloroethane	U		0.000634	0.00276	1	09/29/2018 15:46	WG1173458
1,2-Dichloroethane	U	J4	0.000524	0.00276	1	09/29/2018 15:46	WG1173458
1,1-Dichloroethene	0.0362		0.000552	0.00276	1	09/29/2018 15:46	WG1173458
cis-1,2-Dichloroethene	0.157		0.000761	0.00276	1	09/29/2018 15:46	WG1173458
trans-1,2-Dichloroethene	0.00404 J	J	0.00158	0.00552	1	09/29/2018 15:46	WG1173458
1,2-Dichloropropane	U		0.113	0.441	80	10/01/2018 17:18	WG1173651
1,1-Dichloropropene	U		0.000772	0.00276	1	09/29/2018 15:46	WG1173458
1,3-Dichloropropane	U		0.00193	0.00552	1	09/29/2018 15:46	WG1173458
cis-1,3-Dichloropropene	U		0.000748	0.00276	1	09/29/2018 15:46	WG1173458
trans-1,3-Dichloropropene	U		0.00169	0.00552	1	09/29/2018 15:46	WG1173458
trans-1,4-Dichloro-2-butene	U		0.00154	0.00552	1	09/29/2018 15:46	WG1173458
2,2-Dichloropropane	U		0.000875	0.00276	1	09/29/2018 15:46	WG1173458
Di-isopropyl ether	U		0.000386	0.00110	1	09/29/2018 15:46	WG1173458
Ethylbenzene	0.000719 J	J	0.000585	0.00276	1	09/29/2018 15:46	WG1173458
Hexachloro-1,3-butadiene	U		1.13	2.21	80	10/01/2018 17:18	WG1173651
2-Hexanone	U		0.0110	0.0276	1	09/29/2018 15:46	WG1173458
n-Hexane	0.00405 J	J J0	0.00117	0.00552	1	09/29/2018 15:46	WG1173458
Iodomethane	U		0.00668	0.0138	1	09/29/2018 15:46	WG1173458
Isopropylbenzene	U		0.000952	0.00276	1	09/29/2018 15:46	WG1173458
p-Isopropyltoluene	U		0.00257	0.00552	1	09/29/2018 15:46	WG1173458
2-Butanone (MEK)	U		1.10	2.21	80	10/01/2018 17:18	WG1173651
Methylene Chloride	U		0.00733	0.0276	1	09/29/2018 15:46	WG1173458
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0276	1	09/29/2018 15:46	WG1173458

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000325	0.00110	1	09/29/2018 15:46	WG1173458
Naphthalene	U			0.00344	0.0138	1	09/29/2018 15:46	WG1173458
n-Propylbenzene	U			0.00130	0.00552	1	09/29/2018 15:46	WG1173458
Styrene	U			0.00301	0.0138	1	09/29/2018 15:46	WG1173458
1,1,1,2-Tetrachloroethane	U			0.000552	0.00276	1	09/29/2018 15:46	WG1173458
1,1,2,2-Tetrachloroethane	U			0.000430	0.00276	1	09/29/2018 15:46	WG1173458
1,1,2-Trichlorotrifluoroethane	U			0.000745	0.00276	1	09/29/2018 15:46	WG1173458
Tetrachloroethene	31.4			0.0618	0.221	80	10/01/2018 17:18	WG1173651
Toluene	0.00447	J	J	0.00138	0.00552	1	09/29/2018 15:46	WG1173458
1,2,3-Trichlorobenzene	U			0.000690	0.00276	1	09/29/2018 15:46	WG1173458
1,2,4-Trichlorobenzene	U			0.00532	0.0138	1	09/29/2018 15:46	WG1173458
1,1,1-Trichloroethane	U			0.000303	0.00276	1	09/29/2018 15:46	WG1173458
1,1,2-Trichloroethane	U			0.0779	0.221	80	10/01/2018 17:18	WG1173651
Trichloroethene	1.21			0.0353	0.0883	80	10/01/2018 22:09	WG1174156
Trichlorofluoromethane	U			0.000552	0.00276	1	09/29/2018 15:46	WG1173458
1,2,3-Trichloropropane	U			0.00563	0.0138	1	09/29/2018 15:46	WG1173458
1,2,4-Trimethylbenzene	0.00240	J	J	0.00128	0.00552	1	09/29/2018 15:46	WG1173458
1,2,3-Trimethylbenzene	0.00129	J	J	0.00127	0.00552	1	09/29/2018 15:46	WG1173458
1,3,5-Trimethylbenzene	U			0.00119	0.00552	1	09/29/2018 15:46	WG1173458
Vinyl acetate	U	UJ	J0 J4	0.00388	0.0138	1	09/29/2018 15:46	WG1173458
Vinyl chloride	0.0191			0.000754	0.00276	1	09/29/2018 15:46	WG1173458
Xylenes, Total	0.00585	J	J	0.00527	0.00717	1	09/29/2018 15:46	WG1173458
(S) Toluene-d8	*117*				*75.0-131*		*09/29/2018 15:46*	WG1173458
(S) Toluene-d8	*106*				*75.0-131*		*10/01/2018 17:18*	WG1173651
(S) Toluene-d8	*106*				*75.0-131*		*10/01/2018 22:09*	WG1174156
(S) Dibromofluoromethane	*106*				*65.0-129*		*09/29/2018 15:46*	WG1173458
(S) Dibromofluoromethane	*109*				*65.0-129*		*10/01/2018 17:18*	WG1173651
(S) Dibromofluoromethane	*99.5*				*65.0-129*		*10/01/2018 22:09*	WG1174156
(S) 4-Bromofluorobenzene	*107*				*67.0-138*		*09/29/2018 15:46*	WG1173458
(S) 4-Bromofluorobenzene	*108*				*67.0-138*		*10/01/2018 17:18*	WG1173651
(S) 4-Bromofluorobenzene	*110*				*67.0-138*		*10/01/2018 22:09*	WG1174156

JC 10/19/2018

IW-13D-85
Collected date/time: 09/18/18 16:40

SAMPLE RESULTS - 02

L1029197

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.9		1	09/27/2018 14:37	WG1172388

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0158	0.0288	1	10/01/2018 16:38	WG1173651
Acrylonitrile	U			0.00219	0.0144	1	09/29/2018 16:06	WG1173458
Benzene	U			0.000460	0.00115	1	09/29/2018 16:06	WG1173458
Bromobenzene	U			0.00121	0.0144	1	09/29/2018 16:06	WG1173458
Bromodichloromethane	U			0.000907	0.00288	1	09/29/2018 16:06	WG1173458
Bromochloromethane	U			0.00130	0.00576	1	09/29/2018 16:06	WG1173458
Bromoform	U			0.00688	0.0288	1	09/29/2018 16:06	WG1173458
Bromomethane	U			0.00426	0.0144	1	09/29/2018 16:06	WG1173458
n-Butylbenzene	U			0.00442	0.0144	1	09/29/2018 16:06	WG1173458
sec-Butylbenzene	U			0.00291	0.0144	1	09/29/2018 16:06	WG1173458
tert-Butylbenzene	U			0.00178	0.00576	1	09/29/2018 16:06	WG1173458
Carbon disulfide	U			0.00467	0.0144	1	09/29/2018 16:06	WG1173458
Carbon tetrachloride	U			0.00124	0.00576	1	09/29/2018 16:06	WG1173458
Chlorobenzene	U			0.000660	0.00288	1	09/29/2018 16:06	WG1173458
Chlorodibromomethane	U			0.000518	0.00288	1	09/29/2018 16:06	WG1173458
Chloroethane	U			0.00124	0.00576	1	09/29/2018 16:06	WG1173458
Chloroform	U			0.000478	0.00288	1	09/29/2018 16:06	WG1173458
Chloromethane	U			0.00160	0.0144	1	09/29/2018 16:06	WG1173458
2-Chlorotoluene	U			0.00106	0.00288	1	09/29/2018 16:06	WG1173458
4-Chlorotoluene	U			0.00130	0.00576	1	09/29/2018 16:06	WG1173458
1,2-Dibromo-3-Chloropropane	U			0.00587	0.0288	1	09/29/2018 16:06	WG1173458
1,2-Dibromoethane	U			0.000604	0.00288	1	09/29/2018 16:06	WG1173458
Dibromomethane	U			0.00115	0.00576	1	09/29/2018 16:06	WG1173458
1,2-Dichlorobenzene	U			0.00167	0.00576	1	09/29/2018 16:06	WG1173458
1,3-Dichlorobenzene	U			0.00196	0.00576	1	09/29/2018 16:06	WG1173458
1,4-Dichlorobenzene	U			0.00227	0.00576	1	09/29/2018 16:06	WG1173458
Dichlorodifluoromethane	U			0.000942	0.00288	1	09/29/2018 16:06	WG1173458
1,1-Dichloroethane	U			0.000662	0.00288	1	09/29/2018 16:06	WG1173458
1,2-Dichloroethane	U		J4	0.000547	0.00288	1	09/29/2018 16:06	WG1173458
1,1-Dichloroethene	0.00620			0.000576	0.00288	1	09/29/2018 16:06	WG1173458
cis-1,2-Dichloroethene	0.0220			0.000794	0.00288	1	09/29/2018 16:06	WG1173458
trans-1,2-Dichloroethene	0.00499	J	J	0.00165	0.00576	1	09/29/2018 16:06	WG1173458
1,2-Dichloropropane	U			0.00146	0.00576	1	10/01/2018 16:38	WG1173651
1,1-Dichloropropene	U			0.000806	0.00288	1	09/29/2018 16:06	WG1173458
1,3-Dichloropropane	U			0.00201	0.00576	1	09/29/2018 16:06	WG1173458
cis-1,3-Dichloropropene	U			0.000780	0.00288	1	09/29/2018 16:06	WG1173458
trans-1,3-Dichloropropene	U			0.00176	0.00576	1	09/29/2018 16:06	WG1173458
trans-1,4-Dichloro-2-butene	U			0.00161	0.00576	1	09/29/2018 16:06	WG1173458
2,2-Dichloropropane	U			0.000913	0.00288	1	09/29/2018 16:06	WG1173458
Di-isopropyl ether	U			0.000403	0.00115	1	09/29/2018 16:06	WG1173458
Ethylbenzene	U			0.000610	0.00288	1	09/29/2018 16:06	WG1173458
Hexachloro-1,3-butadiene	U			0.0146	0.0288	1	10/01/2018 16:38	WG1173651
2-Hexanone	U			0.0115	0.0288	1	09/29/2018 16:06	WG1173458
n-Hexane	U	UJ	J0	0.00122	0.00576	1	09/29/2018 16:06	WG1173458
Iodomethane	U			0.00696	0.0144	1	09/29/2018 16:06	WG1173458
Isopropylbenzene	U			0.000993	0.00288	1	09/29/2018 16:06	WG1173458
p-Isopropyltoluene	U			0.00268	0.00576	1	09/29/2018 16:06	WG1173458
2-Butanone (MEK)	0.0211	J	J	0.0144	0.0288	1	10/01/2018 16:38	WG1173651
Methylene Chloride	U			0.00764	0.0288	1	09/29/2018 16:06	WG1173458
4-Methyl-2-pentanone (MIBK)	U			0.0115	0.0288	1	09/29/2018 16:06	WG1173458

JC 10/19/2018

IW-13D-85

Collected date/time: 09/18/18 16:40

SAMPLE RESULTS - 02

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000340	0.00115	1	09/29/2018 16:06	WG1173458
Naphthalene	U			0.00359	0.0144	1	09/29/2018 16:06	WG1173458
n-Propylbenzene	U			0.00136	0.00576	1	09/29/2018 16:06	WG1173458
Styrene	U			0.00314	0.0144	1	09/29/2018 16:06	WG1173458
1,1,1,2-Tetrachloroethane	U			0.000576	0.00288	1	09/29/2018 16:06	WG1173458
1,1,2,2-Tetrachloroethane	U			0.000449	0.00288	1	09/29/2018 16:06	WG1173458
1,1,2-Trichlorotrifluoroethane	U			0.000777	0.00288	1	09/29/2018 16:06	WG1173458
Tetrachloroethene	0.205			0.000806	0.00288	1	10/01/2018 16:38	WG1173651
Toluene	0.00178	J	J	0.00144	0.00576	1	09/29/2018 16:06	WG1173458
1,2,3-Trichlorobenzene	U			0.000719	0.00288	1	09/29/2018 16:06	WG1173458
1,2,4-Trichlorobenzene	U			0.00555	0.0144	1	09/29/2018 16:06	WG1173458
1,1,1-Trichloroethane	U			0.000317	0.00288	1	09/29/2018 16:06	WG1173458
1,1,2-Trichloroethane	U			0.00102	0.00288	1	10/01/2018 16:38	WG1173651
Trichloroethene	0.202			0.000460	0.00115	1	10/01/2018 21:29	WG1174156
Trichlorofluoromethane	U			0.000576	0.00288	1	09/29/2018 16:06	WG1173458
1,2,3-Trichloropropane	U			0.00587	0.0144	1	09/29/2018 16:06	WG1173458
1,2,4-Trimethylbenzene	U			0.00134	0.00576	1	09/29/2018 16:06	WG1173458
1,2,3-Trimethylbenzene	U			0.00132	0.00576	1	09/29/2018 16:06	WG1173458
1,3,5-Trimethylbenzene	U			0.00124	0.00576	1	09/29/2018 16:06	WG1173458
Vinyl acetate	U	UJ	J0 J4	0.00405	0.0144	1	09/29/2018 16:06	WG1173458
Vinyl chloride	U			0.000786	0.00288	1	09/29/2018 16:06	WG1173458
Xylenes, Total	U			0.00550	0.00748	1	09/29/2018 16:06	WG1173458
(S) Toluene-d8	*111*				*75.0-131*		*09/29/2018 16:06*	WG1173458
(S) Toluene-d8	*104*				*75.0-131*		*10/01/2018 16:38*	WG1173651
(S) Toluene-d8	*104*				*75.0-131*		*10/01/2018 21:29*	WG1174156
(S) Dibromofluoromethane	*108*				*65.0-129*		*09/29/2018 16:06*	WG1173458
(S) Dibromofluoromethane	*107*				*65.0-129*		*10/01/2018 16:38*	WG1173651
(S) Dibromofluoromethane	*99.8*				*65.0-129*		*10/01/2018 21:29*	WG1174156
(S) 4-Bromofluorobenzene	*108*				*67.0-138*		*09/29/2018 16:06*	WG1173458
(S) 4-Bromofluorobenzene	*108*				*67.0-138*		*10/01/2018 16:38*	WG1173651
(S) 4-Bromofluorobenzene	*104*				*67.0-138*		*10/01/2018 21:29*	WG1174156

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.1		1	09/27/2018 14:37	WG1172388

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0165	0.0301	1	10/01/2018 16:58	WG1173651
Acrylonitrile	U		0.00229	0.0150	1	09/29/2018 16:27	WG1173458
Benzene	U		0.000481	0.00120	1	09/29/2018 16:27	WG1173458
Bromobenzene	U		0.00126	0.0150	1	09/29/2018 16:27	WG1173458
Bromodichloromethane	U		0.000948	0.00301	1	09/29/2018 16:27	WG1173458
Bromochloromethane	U		0.00136	0.00602	1	09/29/2018 16:27	WG1173458
Bromoform	U		0.00720	0.0301	1	09/29/2018 16:27	WG1173458
Bromomethane	U		0.00445	0.0150	1	09/29/2018 16:27	WG1173458
n-Butylbenzene	U		0.00462	0.0150	1	09/29/2018 16:27	WG1173458
sec-Butylbenzene	U		0.00304	0.0150	1	09/29/2018 16:27	WG1173458
tert-Butylbenzene	U		0.00187	0.00602	1	09/29/2018 16:27	WG1173458
Carbon disulfide	U		0.00489	0.0150	1	09/29/2018 16:27	WG1173458
Carbon tetrachloride	U		0.00130	0.00602	1	09/29/2018 16:27	WG1173458
Chlorobenzene	U		0.000690	0.00301	1	09/29/2018 16:27	WG1173458
Chlorodibromomethane	U		0.000542	0.00301	1	09/29/2018 16:27	WG1173458
Chloroethane	U		0.00130	0.00602	1	09/29/2018 16:27	WG1173458
Chloroform	U		0.000499	0.00301	1	09/29/2018 16:27	WG1173458
Chloromethane	U		0.00167	0.0150	1	09/29/2018 16:27	WG1173458
2-Chlorotoluene	U		0.00111	0.00301	1	09/29/2018 16:27	WG1173458
4-Chlorotoluene	U		0.00136	0.00602	1	09/29/2018 16:27	WG1173458
1,2-Dibromo-3-Chloropropane	U		0.00614	0.0301	1	09/29/2018 16:27	WG1173458
1,2-Dibromoethane	U		0.000632	0.00301	1	09/29/2018 16:27	WG1173458
Dibromomethane	U		0.00120	0.00602	1	09/29/2018 16:27	WG1173458
1,2-Dichlorobenzene	U		0.00175	0.00602	1	09/29/2018 16:27	WG1173458
1,3-Dichlorobenzene	U		0.00205	0.00602	1	09/29/2018 16:27	WG1173458
1,4-Dichlorobenzene	U		0.00237	0.00602	1	09/29/2018 16:27	WG1173458
Dichlorodifluoromethane	U		0.000984	0.00301	1	09/29/2018 16:27	WG1173458
1,1-Dichloroethane	U		0.000692	0.00301	1	09/29/2018 16:27	WG1173458
1,2-Dichloroethane	U	J4	0.000572	0.00301	1	09/29/2018 16:27	WG1173458
1,1-Dichloroethene	U		0.000602	0.00301	1	09/29/2018 16:27	WG1173458
cis-1,2-Dichloroethene	0.00113 J	J	0.000830	0.00301	1	09/29/2018 16:27	WG1173458
trans-1,2-Dichloroethene	U		0.00172	0.00602	1	09/29/2018 16:27	WG1173458
1,2-Dichloropropane	U		0.00153	0.00602	1	10/01/2018 16:58	WG1173651
1,1-Dichloropropene	U		0.000842	0.00301	1	09/29/2018 16:27	WG1173458
1,3-Dichloropropane	U		0.00211	0.00602	1	09/29/2018 16:27	WG1173458
cis-1,3-Dichloropropene	U		0.000816	0.00301	1	09/29/2018 16:27	WG1173458
trans-1,3-Dichloropropene	U		0.00184	0.00602	1	09/29/2018 16:27	WG1173458
trans-1,4-Dichloro-2-butene	U		0.00168	0.00602	1	09/29/2018 16:27	WG1173458
2,2-Dichloropropane	U		0.000954	0.00301	1	09/29/2018 16:27	WG1173458
Di-isopropyl ether	U		0.000421	0.00120	1	09/29/2018 16:27	WG1173458
Ethylbenzene	U		0.000638	0.00301	1	09/29/2018 16:27	WG1173458
Hexachloro-1,3-butadiene	U		0.0153	0.0301	1	10/01/2018 16:58	WG1173651
2-Hexanone	U		0.0120	0.0301	1	09/29/2018 16:27	WG1173458
n-Hexane	U UJ	J0	0.00128	0.00602	1	09/29/2018 16:27	WG1173458
Iodomethane	U		0.00728	0.0150	1	09/29/2018 16:27	WG1173458
Isopropylbenzene	U		0.00104	0.00301	1	09/29/2018 16:27	WG1173458
p-Isopropyltoluene	U		0.00280	0.00602	1	09/29/2018 16:27	WG1173458
2-Butanone (MEK)	0.0213 J	J	0.0150	0.0301	1	10/01/2018 16:58	WG1173651
Methylene Chloride	U		0.00799	0.0301	1	09/29/2018 16:27	WG1173458
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0301	1	09/29/2018 16:27	WG1173458

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000355	0.00120	1	09/29/2018 16:27	WG1173458
Naphthalene	U			0.00376	0.0150	1	09/29/2018 16:27	WG1173458
n-Propylbenzene	U			0.00142	0.00602	1	09/29/2018 16:27	WG1173458
Styrene	U			0.00329	0.0150	1	09/29/2018 16:27	WG1173458
1,1,1,2-Tetrachloroethane	U			0.000602	0.00301	1	09/29/2018 16:27	WG1173458
1,1,2,2-Tetrachloroethane	U			0.000469	0.00301	1	09/29/2018 16:27	WG1173458
1,1,2-Trichlorotrifluoroethane	U			0.000812	0.00301	1	09/29/2018 16:27	WG1173458
Tetrachloroethene	0.00194	J	J	0.000842	0.00301	1	10/01/2018 16:58	WG1173651
Toluene	0.00171	J	J	0.00150	0.00602	1	09/29/2018 16:27	WG1173458
1,2,3-Trichlorobenzene	U			0.000752	0.00301	1	09/29/2018 16:27	WG1173458
1,2,4-Trichlorobenzene	U			0.00580	0.0150	1	09/29/2018 16:27	WG1173458
1,1,1-Trichloroethane	U			0.000331	0.00301	1	09/29/2018 16:27	WG1173458
1,1,2-Trichloroethane	U			0.00106	0.00301	1	10/01/2018 16:58	WG1173651
Trichloroethene	0.00168			0.000481	0.00120	1	10/01/2018 21:49	WG1174156
Trichlorofluoromethane	U			0.000602	0.00301	1	09/29/2018 16:27	WG1173458
1,2,3-Trichloropropane	U			0.00614	0.0150	1	09/29/2018 16:27	WG1173458
1,2,4-Trimethylbenzene	U			0.00140	0.00602	1	09/29/2018 16:27	WG1173458
1,2,3-Trimethylbenzene	U			0.00138	0.00602	1	09/29/2018 16:27	WG1173458
1,3,5-Trimethylbenzene	U			0.00130	0.00602	1	09/29/2018 16:27	WG1173458
Vinyl acetate	U	UJ	J0 J4	0.00424	0.0150	1	09/29/2018 16:27	WG1173458
Vinyl chloride	U			0.000822	0.00301	1	09/29/2018 16:27	WG1173458
Xylenes, Total	U			0.00575	0.00782	1	09/29/2018 16:27	WG1173458
(S) Toluene-d8	*111*				*75.0-131*		*09/29/2018 16:27*	WG1173458
(S) Toluene-d8	*108*				*75.0-131*		*10/01/2018 16:58*	WG1173651
(S) Toluene-d8	*98.8*				*75.0-131*		*10/01/2018 21:49*	WG1174156
(S) Dibromofluoromethane	*106*				*65.0-129*		*09/29/2018 16:27*	WG1173458
(S) Dibromofluoromethane	*105*				*65.0-129*		*10/01/2018 16:58*	WG1173651
(S) Dibromofluoromethane	*104*				*65.0-129*		*10/01/2018 21:49*	WG1174156
(S) 4-Bromofluorobenzene	*105*				*67.0-138*		*09/29/2018 16:27*	WG1173458
(S) 4-Bromofluorobenzene	*112*				*67.0-138*		*10/01/2018 16:58*	WG1173651
(S) 4-Bromofluorobenzene	*108*				*67.0-138*		*10/01/2018 21:49*	WG1174156

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 10/19/2018

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.0		1	09/27/2018 14:37	WG1172388

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0596	0.109	4	10/01/2018 17:38	WG1173651
Acrylonitrile	U		0.00207	0.0136	1	09/29/2018 16:47	WG1173458
Benzene	U		0.000435	0.00109	1	09/29/2018 16:47	WG1173458
Bromobenzene	U		0.00114	0.0136	1	09/29/2018 16:47	WG1173458
Bromodichloromethane	U		0.000857	0.00272	1	09/29/2018 16:47	WG1173458
Bromochloromethane	U		0.00123	0.00544	1	09/29/2018 16:47	WG1173458
Bromoform	U		0.00650	0.0272	1	09/29/2018 16:47	WG1173458
Bromomethane	U		0.00402	0.0136	1	09/29/2018 16:47	WG1173458
n-Butylbenzene	U		0.00417	0.0136	1	09/29/2018 16:47	WG1173458
sec-Butylbenzene	U		0.00275	0.0136	1	09/29/2018 16:47	WG1173458
tert-Butylbenzene	U		0.00168	0.00544	1	09/29/2018 16:47	WG1173458
Carbon disulfide	U		0.00441	0.0136	1	09/29/2018 16:47	WG1173458
Carbon tetrachloride	U		0.00117	0.00544	1	09/29/2018 16:47	WG1173458
Chlorobenzene	U		0.000623	0.00272	1	09/29/2018 16:47	WG1173458
Chlorodibromomethane	U		0.000489	0.00272	1	09/29/2018 16:47	WG1173458
Chloroethane	U		0.00117	0.00544	1	09/29/2018 16:47	WG1173458
Chloroform	U		0.000451	0.00272	1	09/29/2018 16:47	WG1173458
Chloromethane	U		0.00151	0.0136	1	09/29/2018 16:47	WG1173458
2-Chlorotoluene	U		0.00100	0.00272	1	09/29/2018 16:47	WG1173458
4-Chlorotoluene	U		0.00123	0.00544	1	09/29/2018 16:47	WG1173458
1,2-Dibromo-3-Chloropropane	U		0.00554	0.0272	1	09/29/2018 16:47	WG1173458
1,2-Dibromoethane	U		0.000571	0.00272	1	09/29/2018 16:47	WG1173458
Dibromomethane	U		0.00109	0.00544	1	09/29/2018 16:47	WG1173458
1,2-Dichlorobenzene	U		0.00158	0.00544	1	09/29/2018 16:47	WG1173458
1,3-Dichlorobenzene	U		0.00185	0.00544	1	09/29/2018 16:47	WG1173458
1,4-Dichlorobenzene	U		0.00214	0.00544	1	09/29/2018 16:47	WG1173458
Dichlorodifluoromethane	U		0.000889	0.00272	1	09/29/2018 16:47	WG1173458
1,1-Dichloroethane	U		0.000625	0.00272	1	09/29/2018 16:47	WG1173458
1,2-Dichloroethane	U	J4	0.000516	0.00272	1	09/29/2018 16:47	WG1173458
1,1-Dichloroethene	U		0.000544	0.00272	1	09/29/2018 16:47	WG1173458
cis-1,2-Dichloroethene	0.0103		0.000750	0.00272	1	09/29/2018 16:47	WG1173458
trans-1,2-Dichloroethene	U		0.00155	0.00544	1	09/29/2018 16:47	WG1173458
1,2-Dichloropropane	U		0.00552	0.0217	4	10/01/2018 17:38	WG1173651
1,1-Dichloropropene	U		0.000761	0.00272	1	09/29/2018 16:47	WG1173458
1,3-Dichloropropane	U		0.00190	0.00544	1	09/29/2018 16:47	WG1173458
cis-1,3-Dichloropropene	U		0.000737	0.00272	1	09/29/2018 16:47	WG1173458
trans-1,3-Dichloropropene	U		0.00166	0.00544	1	09/29/2018 16:47	WG1173458
trans-1,4-Dichloro-2-butene	U		0.00152	0.00544	1	09/29/2018 16:47	WG1173458
2,2-Dichloropropane	U		0.000862	0.00272	1	09/29/2018 16:47	WG1173458
Di-isopropyl ether	U		0.000380	0.00109	1	09/29/2018 16:47	WG1173458
Ethylbenzene	U		0.000576	0.00272	1	09/29/2018 16:47	WG1173458
Hexachloro-1,3-butadiene	U		0.0552	0.109	4	10/01/2018 17:38	WG1173651
2-Hexanone	U		0.0109	0.0272	1	09/29/2018 16:47	WG1173458
n-Hexane	0.00228 J	J J0	0.00115	0.00544	1	09/29/2018 16:47	WG1173458
Iodomethane	U		0.00658	0.0136	1	09/29/2018 16:47	WG1173458
Isopropylbenzene	U		0.000938	0.00272	1	09/29/2018 16:47	WG1173458
p-Isopropyltoluene	U		0.00253	0.00544	1	09/29/2018 16:47	WG1173458
2-Butanone (MEK)	U		0.0544	0.109	4	10/01/2018 17:38	WG1173651
Methylene Chloride	U		0.00722	0.0272	1	09/29/2018 16:47	WG1173458
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	09/29/2018 16:47	WG1173458

JC 10/19/2018

IW-28C-92

SAMPLE RESULTS - 04

Collected date/time: 09/18/18 16:02

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000321	0.00109	1	09/29/2018 16:47	WG1173458
Naphthalene	U		0.00339	0.0136	1	09/29/2018 16:47	WG1173458
n-Propylbenzene	U		0.00128	0.00544	1	09/29/2018 16:47	WG1173458
Styrene	U		0.00297	0.0136	1	09/29/2018 16:47	WG1173458
1,1,1,2-Tetrachloroethane	U		0.000544	0.00272	1	09/29/2018 16:47	WG1173458
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	09/29/2018 16:47	WG1173458
1,1,2-Trichlorotrifluoroethane	U		0.000734	0.00272	1	09/29/2018 16:47	WG1173458
Tetrachloroethene	0.983		0.00304	0.0109	4	10/01/2018 17:38	WG1173651
Toluene	0.00168 J	J	0.00136	0.00544	1	09/29/2018 16:47	WG1173458
1,2,3-Trichlorobenzene	U		0.000679	0.00272	1	09/29/2018 16:47	WG1173458
1,2,4-Trichlorobenzene	U		0.00524	0.0136	1	09/29/2018 16:47	WG1173458
1,1,1-Trichloroethane	U		0.000299	0.00272	1	09/29/2018 16:47	WG1173458
1,1,2-Trichloroethane	U		0.00384	0.0109	4	10/01/2018 17:38	WG1173651
Trichloroethene	0.00290 J	J	0.00174	0.00435	4	10/01/2018 22:29	WG1174156
Trichlorofluoromethane	U		0.000544	0.00272	1	09/29/2018 16:47	WG1173458
1,2,3-Trichloropropane	U		0.00554	0.0136	1	09/29/2018 16:47	WG1173458
1,2,4-Trimethylbenzene	U		0.00126	0.00544	1	09/29/2018 16:47	WG1173458
1,2,3-Trimethylbenzene	U		0.00125	0.00544	1	09/29/2018 16:47	WG1173458
1,3,5-Trimethylbenzene	U		0.00117	0.00544	1	09/29/2018 16:47	WG1173458
Vinyl acetate	U UJ	J0 J4	0.00383	0.0136	1	09/29/2018 16:47	WG1173458
Vinyl chloride	U		0.000742	0.00272	1	09/29/2018 16:47	WG1173458
Xylenes, Total	U		0.00520	0.00707	1	09/29/2018 16:47	WG1173458
(S) Toluene-d8	*111*			*75.0-131*		*09/29/2018 16:47*	WG1173458
(S) Toluene-d8	*92.9*			*75.0-131*		*10/01/2018 17:38*	WG1173651
(S) Toluene-d8	*92.7*			*75.0-131*		*10/01/2018 22:29*	WG1174156
(S) Dibromofluoromethane	*109*			*65.0-129*		*09/29/2018 16:47*	WG1173458
(S) Dibromofluoromethane	*111*			*65.0-129*		*10/01/2018 17:38*	WG1173651
(S) Dibromofluoromethane	*103*			*65.0-129*		*10/01/2018 22:29*	WG1174156
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/29/2018 16:47*	WG1173458
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*10/01/2018 17:38*	WG1173651
(S) 4-Bromofluorobenzene	*115*			*67.0-138*		*10/01/2018 22:29*	WG1174156

JC 10/19/2018

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.9		1	09/27/2018 14:37	WG1172388

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.149	0.272	10	10/01/2018 17:57	WG1173651
Acrylonitrile	U		0.00207	0.0136	1	09/29/2018 17:08	WG1173458
Benzene	0.000505 J	J	0.000435	0.00109	1	09/29/2018 17:08	WG1173458
Bromobenzene	U		0.00114	0.0136	1	09/29/2018 17:08	WG1173458
Bromodichloromethane	U		0.000857	0.00272	1	09/29/2018 17:08	WG1173458
Bromochloromethane	U		0.00123	0.00544	1	09/29/2018 17:08	WG1173458
Bromoform	U		0.00651	0.0272	1	09/29/2018 17:08	WG1173458
Bromomethane	U		0.00402	0.0136	1	09/29/2018 17:08	WG1173458
n-Butylbenzene	U		0.00418	0.0136	1	09/29/2018 17:08	WG1173458
sec-Butylbenzene	U		0.00275	0.0136	1	09/29/2018 17:08	WG1173458
tert-Butylbenzene	U		0.00169	0.00544	1	09/29/2018 17:08	WG1173458
Carbon disulfide	U		0.00442	0.0136	1	09/29/2018 17:08	WG1173458
Carbon tetrachloride	U		0.00117	0.00544	1	09/29/2018 17:08	WG1173458
Chlorobenzene	U		0.000623	0.00272	1	09/29/2018 17:08	WG1173458
Chlorodibromomethane	U		0.000490	0.00272	1	09/29/2018 17:08	WG1173458
Chloroethane	U		0.00117	0.00544	1	09/29/2018 17:08	WG1173458
Chloroform	U		0.000451	0.00272	1	09/29/2018 17:08	WG1173458
Chloromethane	U		0.00151	0.0136	1	09/29/2018 17:08	WG1173458
2-Chlorotoluene	U		0.00100	0.00272	1	09/29/2018 17:08	WG1173458
4-Chlorotoluene	U		0.00123	0.00544	1	09/29/2018 17:08	WG1173458
1,2-Dibromo-3-Chloropropane	U		0.00555	0.0272	1	09/29/2018 17:08	WG1173458
1,2-Dibromoethane	U		0.000571	0.00272	1	09/29/2018 17:08	WG1173458
Dibromomethane	U		0.00109	0.00544	1	09/29/2018 17:08	WG1173458
1,2-Dichlorobenzene	U		0.00158	0.00544	1	09/29/2018 17:08	WG1173458
1,3-Dichlorobenzene	U		0.00185	0.00544	1	09/29/2018 17:08	WG1173458
1,4-Dichlorobenzene	U		0.00214	0.00544	1	09/29/2018 17:08	WG1173458
Dichlorodifluoromethane	U		0.000890	0.00272	1	09/29/2018 17:08	WG1173458
1,1-Dichloroethane	U		0.000626	0.00272	1	09/29/2018 17:08	WG1173458
1,2-Dichloroethane	U	J4	0.000517	0.00272	1	09/29/2018 17:08	WG1173458
1,1-Dichloroethene	0.000563 J	J	0.000544	0.00272	1	09/29/2018 17:08	WG1173458
cis-1,2-Dichloroethene	0.171		0.000751	0.00272	1	09/29/2018 17:08	WG1173458
trans-1,2-Dichloroethene	0.00381 J	J	0.00156	0.00544	1	09/29/2018 17:08	WG1173458
1,2-Dichloropropane	U		0.0138	0.0544	10	10/01/2018 17:57	WG1173651
1,1-Dichloropropene	U		0.000761	0.00272	1	09/29/2018 17:08	WG1173458
1,3-Dichloropropane	U		0.00190	0.00544	1	09/29/2018 17:08	WG1173458
cis-1,3-Dichloropropene	U		0.000738	0.00272	1	09/29/2018 17:08	WG1173458
trans-1,3-Dichloropropene	U		0.00166	0.00544	1	09/29/2018 17:08	WG1173458
trans-1,4-Dichloro-2-butene	U		0.00152	0.00544	1	09/29/2018 17:08	WG1173458
2,2-Dichloropropane	U		0.000863	0.00272	1	09/29/2018 17:08	WG1173458
Di-isopropyl ether	U		0.000381	0.00109	1	09/29/2018 17:08	WG1173458
Ethylbenzene	0.000610 J	J	0.000577	0.00272	1	09/29/2018 17:08	WG1173458
Hexachloro-1,3-butadiene	U		0.138	0.272	10	10/01/2018 17:57	WG1173651
2-Hexanone	U		0.0109	0.0272	1	09/29/2018 17:08	WG1173458
n-Hexane	0.00339 J	J J0	0.00115	0.00544	1	09/29/2018 17:08	WG1173458
Iodomethane	U		0.00658	0.0136	1	09/29/2018 17:08	WG1173458
Isopropylbenzene	U		0.000939	0.00272	1	09/29/2018 17:08	WG1173458
p-Isopropyltoluene	U		0.00253	0.00544	1	09/29/2018 17:08	WG1173458
2-Butanone (MEK)	U		0.136	0.272	10	10/01/2018 17:57	WG1173651
Methylene Chloride	U		0.00722	0.0272	1	09/29/2018 17:08	WG1173458
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	09/29/2018 17:08	WG1173458

JC 10/19/2018

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000321	0.00109	1	09/29/2018 17:08	WG1173458
Naphthalene	U			0.00339	0.0136	1	09/29/2018 17:08	WG1173458
n-Propylbenzene	U			0.00128	0.00544	1	09/29/2018 17:08	WG1173458
Styrene	U			0.00297	0.0136	1	09/29/2018 17:08	WG1173458
1,1,1,2-Tetrachloroethane	U			0.000544	0.00272	1	09/29/2018 17:08	WG1173458
1,1,2,2-Tetrachloroethane	U			0.000424	0.00272	1	09/29/2018 17:08	WG1173458
1,1,2-Trichlorotrifluoroethane	U			0.000734	0.00272	1	09/29/2018 17:08	WG1173458
Tetrachloroethene	1.74			0.00761	0.0272	10	10/01/2018 17:57	WG1173651
Toluene	0.00303	J	J	0.00136	0.00544	1	09/29/2018 17:08	WG1173458
1,2,3-Trichlorobenzene	U			0.000680	0.00272	1	09/29/2018 17:08	WG1173458
1,2,4-Trichlorobenzene	U			0.00524	0.0136	1	09/29/2018 17:08	WG1173458
1,1,1-Trichloroethane	U			0.000299	0.00272	1	09/29/2018 17:08	WG1173458
1,1,2-Trichloroethane	U			0.00961	0.0272	10	10/01/2018 17:57	WG1173651
Trichloroethene	0.152			0.000435	0.00109	1	09/29/2018 17:08	WG1173458
Trichlorofluoromethane	U			0.000544	0.00272	1	09/29/2018 17:08	WG1173458
1,2,3-Trichloropropane	U			0.00555	0.0136	1	09/29/2018 17:08	WG1173458
1,2,4-Trimethylbenzene	U			0.00126	0.00544	1	09/29/2018 17:08	WG1173458
1,2,3-Trimethylbenzene	U			0.00125	0.00544	1	09/29/2018 17:08	WG1173458
1,3,5-Trimethylbenzene	U			0.00117	0.00544	1	09/29/2018 17:08	WG1173458
Vinyl acetate	U	UJ	J0 J4	0.00383	0.0136	1	09/29/2018 17:08	WG1173458
Vinyl chloride	0.00790			0.000743	0.00272	1	09/29/2018 17:08	WG1173458
Xylenes, Total	U			0.00520	0.00707	1	09/29/2018 17:08	WG1173458
(S) Toluene-d8	*112*				*75.0-131*		*09/29/2018 17:08*	WG1173458
(S) Toluene-d8	*97.0*				*75.0-131*		*10/01/2018 17:57*	WG1173651
(S) Dibromofluoromethane	*105*				*65.0-129*		*09/29/2018 17:08*	WG1173458
(S) Dibromofluoromethane	*110*				*65.0-129*		*10/01/2018 17:57*	WG1173651
(S) 4-Bromofluorobenzene	*106*				*67.0-138*		*09/29/2018 17:08*	WG1173458
(S) 4-Bromofluorobenzene	*109*				*67.0-138*		*10/01/2018 17:57*	WG1173651

JC 10/19/2018

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.5		1	09/27/2018 14:37	WG1172388

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.306	0.559	20	10/01/2018 12:57	WG1173651
Acrylonitrile	U		0.00212	0.0140	1	09/29/2018 17:28	WG1173458
Benzene	0.000458 J	J	0.000447	0.00112	1	09/29/2018 17:28	WG1173458
Bromobenzene	U		0.00117	0.0140	1	09/29/2018 17:28	WG1173458
Bromodichloromethane	U		0.000881	0.00279	1	09/29/2018 17:28	WG1173458
Bromochloromethane	U		0.00126	0.00559	1	09/29/2018 17:28	WG1173458
Bromoform	U		0.00668	0.0279	1	09/29/2018 17:28	WG1173458
Bromomethane	U		0.00414	0.0140	1	09/29/2018 17:28	WG1173458
n-Butylbenzene	U		0.00429	0.0140	1	09/29/2018 17:28	WG1173458
sec-Butylbenzene	U		0.00283	0.0140	1	09/29/2018 17:28	WG1173458
tert-Butylbenzene	U		0.00173	0.00559	1	09/29/2018 17:28	WG1173458
Carbon disulfide	U		0.00454	0.0140	1	09/29/2018 17:28	WG1173458
Carbon tetrachloride	U		0.00121	0.00559	1	09/29/2018 17:28	WG1173458
Chlorobenzene	U		0.000640	0.00279	1	09/29/2018 17:28	WG1173458
Chlorodibromomethane	U		0.000503	0.00279	1	09/29/2018 17:28	WG1173458
Chloroethane	U		0.00121	0.00559	1	09/29/2018 17:28	WG1173458
Chloroform	U		0.000464	0.00279	1	09/29/2018 17:28	WG1173458
Chloromethane	U		0.00155	0.0140	1	09/29/2018 17:28	WG1173458
2-Chlorotoluene	U		0.00103	0.00279	1	09/29/2018 17:28	WG1173458
4-Chlorotoluene	U		0.00126	0.00559	1	09/29/2018 17:28	WG1173458
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0279	1	09/29/2018 17:28	WG1173458
1,2-Dibromoethane	U		0.000587	0.00279	1	09/29/2018 17:28	WG1173458
Dibromomethane	U		0.00112	0.00559	1	09/29/2018 17:28	WG1173458
1,2-Dichlorobenzene	U		0.00162	0.00559	1	09/29/2018 17:28	WG1173458
1,3-Dichlorobenzene	U		0.00190	0.00559	1	09/29/2018 17:28	WG1173458
1,4-Dichlorobenzene	U		0.00220	0.00559	1	09/29/2018 17:28	WG1173458
Dichlorodifluoromethane	U		0.000914	0.00279	1	09/29/2018 17:28	WG1173458
1,1-Dichloroethane	U		0.000643	0.00279	1	09/29/2018 17:28	WG1173458
1,2-Dichloroethane	U	J4	0.000531	0.00279	1	09/29/2018 17:28	WG1173458
1,1-Dichloroethene	U		0.000559	0.00279	1	09/29/2018 17:28	WG1173458
cis-1,2-Dichloroethene	0.0596		0.000771	0.00279	1	09/29/2018 17:28	WG1173458
trans-1,2-Dichloroethene	U		0.00160	0.00559	1	09/29/2018 17:28	WG1173458
1,2-Dichloropropane	U		0.0284	0.112	20	10/01/2018 12:57	WG1173651
1,1-Dichloropropene	U		0.000782	0.00279	1	09/29/2018 17:28	WG1173458
1,3-Dichloropropane	U		0.00196	0.00559	1	09/29/2018 17:28	WG1173458
cis-1,3-Dichloropropene	U		0.000758	0.00279	1	09/29/2018 17:28	WG1173458
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	09/29/2018 17:28	WG1173458
trans-1,4-Dichloro-2-butene	U		0.00156	0.00559	1	09/29/2018 17:28	WG1173458
2,2-Dichloropropane	U		0.000886	0.00279	1	09/29/2018 17:28	WG1173458
Di-isopropyl ether	U		0.000391	0.00112	1	09/29/2018 17:28	WG1173458
Ethylbenzene	U		0.000592	0.00279	1	09/29/2018 17:28	WG1173458
Hexachloro-1,3-butadiene	U		0.284	0.559	20	10/01/2018 12:57	WG1173651
2-Hexanone	U		0.0112	0.0279	1	09/29/2018 17:28	WG1173458
n-Hexane	U UJ	J0	0.00118	0.00559	1	09/29/2018 17:28	WG1173458
Iodomethane	U		0.00676	0.0140	1	09/29/2018 17:28	WG1173458
Isopropylbenzene	U		0.000965	0.00279	1	09/29/2018 17:28	WG1173458
p-Isopropyltoluene	U		0.00260	0.00559	1	09/29/2018 17:28	WG1173458
2-Butanone (MEK)	U		0.279	0.559	20	10/01/2018 12:57	WG1173651
Methylene Chloride	U		0.00742	0.0279	1	09/29/2018 17:28	WG1173458
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	09/29/2018 17:28	WG1173458

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IW-12D-85
Collected date/time: 09/17/18 11:25

SAMPLE RESULTS - 06

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000330	0.00112	1	09/29/2018 17:28	WG1173458
Naphthalene	U			0.00349	0.0140	1	09/29/2018 17:28	WG1173458
n-Propylbenzene	U			0.00132	0.00559	1	09/29/2018 17:28	WG1173458
Styrene	U			0.00305	0.0140	1	09/29/2018 17:28	WG1173458
1,1,1,2-Tetrachloroethane	U			0.000559	0.00279	1	09/29/2018 17:28	WG1173458
1,1,2,2-Tetrachloroethane	U			0.000436	0.00279	1	09/29/2018 17:28	WG1173458
1,1,2-Trichlorotrifluoroethane	U			0.000754	0.00279	1	09/29/2018 17:28	WG1173458
Tetrachloroethene	8.01			0.0156	0.0559	20	10/01/2018 12:57	WG1173651
Toluene	0.00194	J	J	0.00140	0.00559	1	09/29/2018 17:28	WG1173458
1,2,3-Trichlorobenzene	U			0.000699	0.00279	1	09/29/2018 17:28	WG1173458
1,2,4-Trichlorobenzene	U			0.00539	0.0140	1	09/29/2018 17:28	WG1173458
1,1,1-Trichloroethane	U			0.000307	0.00279	1	09/29/2018 17:28	WG1173458
1,1,2-Trichloroethane	U			0.0198	0.0559	20	10/01/2018 12:57	WG1173651
Trichloroethene	0.0451			0.000447	0.00112	1	09/29/2018 17:28	WG1173458
Trichlorofluoromethane	U			0.000559	0.00279	1	09/29/2018 17:28	WG1173458
1,2,3-Trichloropropane	U			0.00570	0.0140	1	09/29/2018 17:28	WG1173458
1,2,4-Trimethylbenzene	0.00173	J	J	0.00130	0.00559	1	09/29/2018 17:28	WG1173458
1,2,3-Trimethylbenzene	U			0.00129	0.00559	1	09/29/2018 17:28	WG1173458
1,3,5-Trimethylbenzene	U			0.00121	0.00559	1	09/29/2018 17:28	WG1173458
Vinyl acetate	U	UJ	J0 J4	0.00393	0.0140	1	09/29/2018 17:28	WG1173458
Vinyl chloride	U			0.000763	0.00279	1	09/29/2018 17:28	WG1173458
Xylenes, Total	U			0.00534	0.00727	1	09/29/2018 17:28	WG1173458
(S) Toluene-d8	*111*				*75.0-131*		*09/29/2018 17:28*	WG1173458
(S) Toluene-d8	*103*				*75.0-131*		*10/01/2018 12:57*	WG1173651
(S) Dibromofluoromethane	*107*				*65.0-129*		*09/29/2018 17:28*	WG1173458
(S) Dibromofluoromethane	*105*				*65.0-129*		*10/01/2018 12:57*	WG1173651
(S) 4-Bromofluorobenzene	*107*				*67.0-138*		*09/29/2018 17:28*	WG1173458
(S) 4-Bromofluorobenzene	*110*				*67.0-138*		*10/01/2018 12:57*	WG1173651

JC 10/19/2018

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.1		1	09/27/2018 14:37	WG1172388

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0659	0.120	4	10/01/2018 13:17	WG1173651
Acrylonitrile	U		0.00229	0.0150	1	09/29/2018 17:49	WG1173458
Benzene	U		0.000481	0.00120	1	09/29/2018 17:49	WG1173458
Bromobenzene	U		0.00126	0.0150	1	09/29/2018 17:49	WG1173458
Bromodichloromethane	U		0.000948	0.00301	1	09/29/2018 17:49	WG1173458
Bromochloromethane	U		0.00136	0.00601	1	09/29/2018 17:49	WG1173458
Bromoform	U		0.00719	0.0301	1	09/29/2018 17:49	WG1173458
Bromomethane	U		0.00445	0.0150	1	09/29/2018 17:49	WG1173458
n-Butylbenzene	U		0.00462	0.0150	1	09/29/2018 17:49	WG1173458
sec-Butylbenzene	U		0.00304	0.0150	1	09/29/2018 17:49	WG1173458
tert-Butylbenzene	U		0.00186	0.00601	1	09/29/2018 17:49	WG1173458
Carbon disulfide	U		0.00488	0.0150	1	09/29/2018 17:49	WG1173458
Carbon tetrachloride	U		0.00130	0.00601	1	09/29/2018 17:49	WG1173458
Chlorobenzene	U		0.000689	0.00301	1	09/29/2018 17:49	WG1173458
Chlorodibromomethane	U		0.000541	0.00301	1	09/29/2018 17:49	WG1173458
Chloroethane	U		0.00130	0.00601	1	09/29/2018 17:49	WG1173458
Chloroform	U		0.000499	0.00301	1	09/29/2018 17:49	WG1173458
Chloromethane	U		0.00167	0.0150	1	09/29/2018 17:49	WG1173458
2-Chlorotoluene	U		0.00111	0.00301	1	09/29/2018 17:49	WG1173458
4-Chlorotoluene	U		0.00136	0.00601	1	09/29/2018 17:49	WG1173458
1,2-Dibromo-3-Chloropropane	U		0.00613	0.0301	1	09/29/2018 17:49	WG1173458
1,2-Dibromoethane	U		0.000631	0.00301	1	09/29/2018 17:49	WG1173458
Dibromomethane	U		0.00120	0.00601	1	09/29/2018 17:49	WG1173458
1,2-Dichlorobenzene	U		0.00174	0.00601	1	09/29/2018 17:49	WG1173458
1,3-Dichlorobenzene	U		0.00204	0.00601	1	09/29/2018 17:49	WG1173458
1,4-Dichlorobenzene	U		0.00237	0.00601	1	09/29/2018 17:49	WG1173458
Dichlorodifluoromethane	U		0.000984	0.00301	1	09/29/2018 17:49	WG1173458
1,1-Dichloroethane	U		0.000692	0.00301	1	09/29/2018 17:49	WG1173458
1,2-Dichloroethane	U	J4	0.000571	0.00301	1	09/29/2018 17:49	WG1173458
1,1-Dichloroethene	U		0.000601	0.00301	1	09/29/2018 17:49	WG1173458
cis-1,2-Dichloroethene	0.00818		0.000830	0.00301	1	09/29/2018 17:49	WG1173458
trans-1,2-Dichloroethene	U		0.00172	0.00601	1	09/29/2018 17:49	WG1173458
1,2-Dichloropropane	U		0.00611	0.0241	4	10/01/2018 13:17	WG1173651
1,1-Dichloropropene	U		0.000842	0.00301	1	09/29/2018 17:49	WG1173458
1,3-Dichloropropane	U		0.00210	0.00601	1	09/29/2018 17:49	WG1173458
cis-1,3-Dichloropropene	U		0.000815	0.00301	1	09/29/2018 17:49	WG1173458
trans-1,3-Dichloropropene	U		0.00184	0.00601	1	09/29/2018 17:49	WG1173458
trans-1,4-Dichloro-2-butene	U		0.00168	0.00601	1	09/29/2018 17:49	WG1173458
2,2-Dichloropropane	U		0.000954	0.00301	1	09/29/2018 17:49	WG1173458
Di-isopropyl ether	U		0.000421	0.00120	1	09/29/2018 17:49	WG1173458
Ethylbenzene	U		0.000637	0.00301	1	09/29/2018 17:49	WG1173458
Hexachloro-1,3-butadiene	U		0.0611	0.120	4	10/01/2018 13:17	WG1173651
2-Hexanone	U		0.0120	0.0301	1	09/29/2018 17:49	WG1173458
n-Hexane	0.00282 J	J J0	0.00127	0.00601	1	09/29/2018 17:49	WG1173458
Iodomethane	U		0.00728	0.0150	1	09/29/2018 17:49	WG1173458
Isopropylbenzene	U		0.00104	0.00301	1	09/29/2018 17:49	WG1173458
p-Isopropyltoluene	U		0.00280	0.00601	1	09/29/2018 17:49	WG1173458
2-Butanone (MEK)	U		0.0601	0.120	4	10/01/2018 13:17	WG1173651
Methylene Chloride	U		0.00799	0.0301	1	09/29/2018 17:49	WG1173458
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0301	1	09/29/2018 17:49	WG1173458

JC 10/19/2018

IW-12D-95

Collected date/time: 09/17/18 12:40

SAMPLE RESULTS - 07

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000355	0.00120	1	09/29/2018 17:49	WG1173458
Naphthalene	U		0.00375	0.0150	1	09/29/2018 17:49	WG1173458
n-Propylbenzene	U		0.00142	0.00601	1	09/29/2018 17:49	WG1173458
Styrene	U		0.00328	0.0150	1	09/29/2018 17:49	WG1173458
1,1,1,2-Tetrachloroethane	U		0.000601	0.00301	1	09/29/2018 17:49	WG1173458
1,1,2,2-Tetrachloroethane	U		0.000469	0.00301	1	09/29/2018 17:49	WG1173458
1,1,2-Trichlorotrifluoroethane	U		0.000812	0.00301	1	09/29/2018 17:49	WG1173458
Tetrachloroethene	0.942		0.00337	0.0120	4	10/01/2018 13:17	WG1173651
Toluene	U		0.00150	0.00601	1	09/29/2018 17:49	WG1173458
1,2,3-Trichlorobenzene	U		0.000752	0.00301	1	09/29/2018 17:49	WG1173458
1,2,4-Trichlorobenzene	U		0.00580	0.0150	1	09/29/2018 17:49	WG1173458
1,1,1-Trichloroethane	U		0.000331	0.00301	1	09/29/2018 17:49	WG1173458
1,1,2-Trichloroethane	U		0.00425	0.0120	4	10/01/2018 13:17	WG1173651
Trichloroethene	0.00512		0.000481	0.00120	1	09/29/2018 17:49	WG1173458
Trichlorofluoromethane	U		0.000601	0.00301	1	09/29/2018 17:49	WG1173458
1,2,3-Trichloropropane	U		0.00613	0.0150	1	09/29/2018 17:49	WG1173458
1,2,4-Trimethylbenzene	U		0.00140	0.00601	1	09/29/2018 17:49	WG1173458
1,2,3-Trimethylbenzene	U		0.00138	0.00601	1	09/29/2018 17:49	WG1173458
1,3,5-Trimethylbenzene	U		0.00130	0.00601	1	09/29/2018 17:49	WG1173458
Vinyl acetate	U UJ	J0 J4	0.00423	0.0150	1	09/29/2018 17:49	WG1173458
Vinyl chloride	0.00139 J	J	0.000821	0.00301	1	09/29/2018 17:49	WG1173458
Xylenes, Total	U		0.00575	0.00782	1	09/29/2018 17:49	WG1173458
(S) Toluene-d8	*107*			*75.0-131*		*09/29/2018 17:49*	WG1173458
(S) Toluene-d8	*106*			*75.0-131*		*10/01/2018 13:17*	WG1173651
(S) Dibromofluoromethane	*103*			*65.0-129*		*09/29/2018 17:49*	WG1173458
(S) Dibromofluoromethane	*105*			*65.0-129*		*10/01/2018 13:17*	WG1173651
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*09/29/2018 17:49*	WG1173458
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*10/01/2018 13:17*	WG1173651

JC 10/19/2018

MEMORANDUM

TO: Project File **DATE:** October 24, 2018

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.303

TASK: September 2018 – Soil Vapor Samples

LAB: Pace Sample Delivery Group (SDG): L1030304

Four (4) soil vapor samples including one (1) field duplicate were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 25, 2018. The samples were shipped and delivered to Pace Analytical (formerly ESC Lab Sciences (ESC)) of Mount Juliet, TN for laboratory analysis. Samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method TO-15.

Associated soil sample data are reported in five Pace SDGs (L1022679, L1024338, L1025469, L1026432, and L1029197). The quality assurance review of the sample data associated with L1030304 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace Analytical (Pace) control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

The laboratory supplied Summa Canisters ^{TM} canister (1-Liter) for the air samples. The samples were shipped, delivered by FedEx, and received in good condition by the laboratory. The samples were collected, handled, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling and preservation techniques.

Holding Times

USEPA Method TO-15:
The analyses for VOCs was performed within the 30-day recommended holding time limit for the air samples collected in a Summa canisters. No data was qualified based upon holding times.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Case narrative and laboratory notes do not indicate that there are any issues with calibration.

Method Blank Results

USEPA Method TO-15:
A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the reporting detection limits (RDLs) with the following exceptions:

- Analytical batch WG1174010: Low levels of 1,2-dichlorobenzene, 1,4-dichlorobenzene, hexachloro-1,3-butadiene, and naphthalene are detected in the method blank. No action was necessary as these compounds were not detected in the associated samples.

Trip Blank Results

USEPA Method TO-15:

A trip blank is not required for the VOCs. No qualifications were warranted due to the lack of a trip blank for this method.

Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate sample pair is as follows:

- Samples SV01-092518 and SV01-092518-D

Field duplicate pair was submitted and analyzed for VOCs. VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% (1x RL for results <5X the RDL) for the field duplicate with the following exceptions:

- Field duplicate results for 1,4-dioxane, tetrachloroethylene, and tetrahydrofuran are not comparable and above acceptance criteria. **Field duplicate pair (SV01-092518 and SV01-092518-D) results for these compounds are estimated and qualified (J/UJ) due to poor field duplicate precision.**

Laboratory Duplicate Analyses

USEPA Method TO-15:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

Surrogate Recoveries

USEPA Method TO-15:
The surrogate recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

Laboratory Control Samples

USEPA Method TO-15:

Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed by USEPA Method TO-15 method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions and exceptions:

- Analytical Batch WG1174010: LCSD recovery for 1,2-dichlorotetrafluoroethane is slightly above control limit criteria and laboratory qualified (J4). This compound is not detected in the associated samples. **Compound (1,2-dichlorotetrafluoroethane) is considered not detected (U) in the associated samples due to the elevated LCSD recovery.**

Matrix Spike/Matrix Spike Duplicates

USEPA Method TO-15:
A matrix spike/matrix spike duplicate (MS/MSD) is not required for VOCs.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Electronic data deliverables for this SDG are provided by the laboratory and data validator qualifiers were entered into the EDD. In some cases different chemical synonyms are used between the EDD and hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Quantitation Limits

The RDLs used for this sample group are acceptable for the project.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	11.5	27.4		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	0.476	2.32		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	1.73	6.92		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	1.83 J	6.59 J		2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	14.6	27.5		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND U	ND U	~~J4~~	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.404	1.40		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND UJ	ND UJ		2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	1.24 J	3.64 J		2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	ND	ND		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	17.8	96.7		2	WG1174010
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1174010
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG1174010
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	WG1174010
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1174010
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1174010
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1174010
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1174010
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1174010
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	WG1174010
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	WG1174010
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG1174010

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	8.56	20.3		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	0.420	2.04		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	1.63	6.54		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND UJ	ND UJ		2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	12.3	23.2		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND U	ND U	~~J4~~	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	20.2 J	137 J		2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND UJ	ND UJ		2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	ND	ND		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	17.1	93.2		2	WG1174010
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1174010
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG1174010
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	WG1174010
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1174010
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1174010
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1174010
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1174010
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1174010
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	WG1174010
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	WG1174010
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*92.5*				WG1174010

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	30.8	73.2		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	0.594	1.23		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	0.749	2.70		2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	11.5	21.7		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	0.622	3.05		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	0.774	4.35		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.448	2.22		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND U	ND U	~~J4~~	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	0.659	2.32		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	1.10	3.81		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	7.95	19.5		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	4.66	8.03		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	0.633	1.87		2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	0.485	1.83		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	WG1174010
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1174010
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG1174010
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	1.84	9.01		2	WG1174010
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	0.488	2.39		2	WG1174010
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1174010
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1174010
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1174010
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1174010
m&p-Xylene	1330-20-7	106	0.800	3.47	1.29	5.58		2	WG1174010
o-Xylene	95-47-6	106	0.400	1.73	0.638	2.76		2	WG1174010
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*107*				WG1174010

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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SAMPLE RESULTS - 04

L1030304

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	7.83	18.6		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	13.8	26.1		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND U	ND U	~~J4~~	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	1.60	2.75		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	0.570	2.15		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	WG1174010
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1174010
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG1174010
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	0.508	2.49		2	WG1174010
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1174010
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1174010
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1174010
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1174010
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1174010
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	WG1174010
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	WG1174010
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*115*				WG1174010

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MEMORANDUM

TO: Project File **DATE:** November 16, 2018

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.304

TASK: October, 2018 – Soil Samples

LAB: Pace Sample Delivery Groups (SDGs): L1034970, L1035515, L1036155, L1036161, L1036473, L1036481 and L1036740

One hundred and ten (110) soil samples including one (1) field duplicate, and two (2) trip blanks were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington. Samples were collected between October 15th and 19th, 2018. The samples were shipped and delivered to Pace Analytical (formerly ESC Lab Sciences (ESC)) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total Solids by Standard Methods 2540 G-2011.

Associated soil sample data are reported in seven Pace SDGs (L1034970, L1035515, L1036155, L1036161, L1036473, L1036481 and L1036740). The quality assurance review of the sample data are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace Analytical (Pace) control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested with the following discussion:

- Review of associated chain of custodies show that multiple soil samples were collected and placed on hold by PES. No action was taken other than to note this.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for soils from the date of collection. All holding time criteria were met.

Total Solids by SM 2540 G 2011:
Samples were analyzed within the USEPA recommended holding time of seven days for total solids.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDG L1034970 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for tetrachloroethene associated with analytical batch WG1184188 (analyzed on October 21, 2018). The compound is qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1034970 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for methyl tert-butyl ether associated with analytical batch WG1181654 (analyzed on October 16, 2018). The compound is qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (UJ).**

- SDG L1034970 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batch WG1183157 (analyzed on October 19, 2018). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated samples results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDGs L1035515 and L1036155 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for carbon disulfide, ethylbenzene, and n-hexane associated with analytical batch WG1183540 (analyzed on October 19, 2018). The compounds are qualified by the laboratory "J0" to indicate that percent difference

CCVs are outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDGs L1036155 and L1036161 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues are noted by Pace for tetrachloroethene associated with analytical batch WG1185221 (analyzed on October 23, 2018). The compound is qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1036473 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues are noted by Pace for tetrachloroethene associated with analytical batch WG1185319 (analyzed on October 24, 2018). The compound is qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1036740 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issue is noted by Pace for 2-butanone (MEK) associated with analytical batch WG1186927 (analyzed on October 26, 2018). The compound is qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated sample B-254A-27 result with laboratory qualified (J0) result for 2-butanone (MEK) is estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reported detection limits (RDLs) with the following exceptions:

- SDG L1034970 - Analytical batch WG1181551: Low levels of hexachloro-1,3-butadiene, naphthalene, and 1,2,3-trichlorobenzene are detected in the method blank associated with the trip blank. No action was taken since these compounds are not detected in the associated trip blank.

- SDG L1034970 - Analytical batch WG1181654: Low levels of chloroform are detected in the method blank associated with four samples. **Chloroform results in two samples B-250-24 and B-251-25 are qualified as not detected (U) due to method blank contamination.** No action is required for the remaining two samples (B-249-20 and B-252-29) since chloroform is not detected.

- SDG L1034970 - Analytical batch WG1183157: Low levels of chloroform and methylene chloride are detected in the method blank associated with a number of samples. **The chloroform results in eight samples (B-251-8, B-251-10, B-251-15, B-251-20, B-251-25, B-252-2.5, B-252-10, and B-252-15) are detected below the RDL and are qualified as not detected (U) due to method blank contamination. The**

methylene chloride result in sample B-252-2.5 is qualified as not detected (U) due to method blank contamination.

- SDG L1035515 - Analytical batch WG1183540: Low levels of 2-butanone (MEK) and methylene chloride are detected in the method blank associated with the samples. **The 2-butanone (MEK) results below the RDL (laboratory qualified "BJ") in the associated samples are qualified as not detected (U) due to method blank contamination. The 2-butanone (MEK) results above the RDL (laboratory qualified "B") in the associated samples are qualified as estimated (J) due to method blank contamination.** No action is taken for methylene chloride since it is not detected in the associated samples.

- SDGs L1035515 and L1036155 - Analytical batch WG1184696: A low level of 1,2,3-trichlorobenzene is detected in the method blank associated the samples. No action is taken since 1,2,3-trichlorobenzene is not detected in the associated samples.

- SDGs L1036155 and L1036473 - Analytical batch WG1185221: A low level of n-hexane is detected in the method blank associated the samples. No action is taken since n-hexane is not detected in the associated samples.

- SDG L1036155 - Analytical batch WG1184313: Low levels of chloroform and 1,2,3-trichlorobenzene are detected in the method blank associated with the samples. **The chloroform results below the RDL (laboratory qualified "BJ") in the associated samples are qualified as not detected (U) due to method blank contamination. The chloroform results above the RDL (laboratory qualified "B") in the associated samples are qualified as estimated (J) due to method blank contamination.** No action is taken for 1,2,3-trichlorobenzene as it is not detected in the associated samples.

- SDG L1036161 - Analytical batch WG1184455: A low level of chloroform is detected in the method blank associated with the samples. No action is taken for chloroform as it is not detected in the associated samples.

- SDG L1036473 - Analytical batch WG1184455: A low level of chloroform is detected in the method blank associated with eleven samples. **The chloroform results below the RDL (laboratory qualified "BJ") in the associated samples are qualified as not detected (U) due to method blank contamination. The chloroform results above the RDL (laboratory qualified "B") in the associated samples are qualified as estimated (J) due to method blank contamination.**

- SDG L1036473 - Analytical batch WG1184727: A low level of chloroform is detected in the method blank associated with nineteen samples. **The chloroform results below the RDL (laboratory qualified "BJ") in the associated samples are qualified as not detected (U) due to method blank contamination. The chloroform results above the RDL (laboratory qualified "B") in the associated samples are qualified as estimated (J) due to method blank contamination.**

- SDGs L1036481 and L1036473 - Analytical batch WG1186559: A low level of methylene chloride is detected in the method blank associated with the samples. No action is taken for methylene chloride as it is not detected in the associated samples.

- SDG L1036740 - Analytical batch WG1188021: A low level of 2-butanone (MEK) is detected in the method blank associated with sample B-254A-35. **The 2-butanone (MEK) result is below the RDL (laboratory qualified "BJ") in associated sample B-254A-35 is qualified as not detected (U) due to method blank contamination. Refer to the discussion under Surrogate Recovery for additional information on sample B-254A-35.**

Total Solids by SM 2540 G 2011:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

Trip Blank Results

USEPA Method 8260C:
Two trip blanks were collected and analyzed. The target analytes were not detected in the trip blanks (refer to SDGs L1034970 and L1036155) at or above the RDLs with the following exception:

- SDG L1034970 - Analytical batch WG1181551: A low level of acetone is detected in the trip blank. A low level of acetone is detected in associated sample B-251-20. **The acetone detection in sample B-251-20 is qualified as not detected (U) due to trip blank contamination.**

Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate sample pairs are as follows:

SDG L1036161: Samples IW-58A-38 and B-929-38

- Field duplicate pairs were submitted and analyzed for VOCs and percent solids. Percent solids and VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 2x RDL for soil results <5X the RDL) for the field duplicates with the following exceptions:
    - **Trans-1,2-dichloroethene and trichloroethene results are not comparable (absolute differences >2X RDL) and field duplicate sample (IW-58A-38 and B-929-38) results for these compounds are estimated and qualified (J).**

Laboratory Duplicate Analyses

USEPA Method 8260C:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

Total Solids by SM 2540 G 2011:
Laboratory duplicate sample analyses were performed on client and/or on non-client samples within the analytical batches. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, and the method blanks are within the laboratory surrogate control limits for all of the analyses with the following exception:

- SDG L1034970 - Analytical batch WG1183157 (October 20, 2018 analysis). Toluene-d8 surrogate recovery for sample B-252-19 is high, above criteria, and is qualified (J1) by the laboratory. **All positive detections associated with analytical batch WG1183157 in sample B-252-19 are estimated and qualified (J).**

- SDG L1035515 - Analytical batch WG1185916 (October 24, 2018 analysis). Toluene surrogate recovery for sample B-256-5 is high and above criteria and qualified (J1) by the laboratory. **Trichloroethene result for sample B-256-5 is estimated and qualified (J/UJ).**

- SDG L1036155 - Analytical batch WG1185140 (October 23, 2018 analysis). *4-Bromofluorobenzene* surrogate recovery for sample B-260-8 is below criteria (but greater than 10% recovery) and qualified (J2) by the laboratory. **Associated compound (benzene, di-isopropyl ether, methyl tert-butyl ether, tetrachloroethene, 1,2,4-trichlorobenzene, and trichloroethene) results for sample B-260-8 are estimated and qualified (J/UJ).** Refer to Other Quality Control issues for sample B-260-8 tetrachloroethene, internal standard recovery issue, and final qualification.

- SDG L1036473 - Analytical batch WG1184727 (October 22, 2018 analysis): Toluene-d8 surrogate recovery for sample B-253A-15 is high, above criteria, and is qualified (J1) by the laboratory. **All positive detections associated with analytical batch WG1184727 in sample B-253A-15 are estimated and qualified (J).**

- SDG L1036740 - Analytical batch WG1188021 (October 29, 2018 analysis). Toluene surrogate recovery for sample B-254A-35 is low and below criteria (but greater than 10% recovery) and qualified (J2) by the laboratory. **All associated analytical batch (WG1188021) results for sample B-254A-35 are estimated and qualified (J/UJ) except for the 2-butanone (MEK) detection which is qualified as not detected (U) due to blank contamination.**

Laboratory Control Samples

USEPA Method 8260C:

Laboratory control sample and laboratory control sample duplicate (LCS/LCSD) were analyzed by USEPA Method 8260C method. In some cases only LCS data are provided and no measure of precision is provided. No action is taken other than to note that overall a sufficient measure of precision was provided by the laboratory. The LCS or LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils with the following discussions and exceptions:

- SDG L1034970 - Analytical batch WG1181654: LCS recovery for dibromomethane, 1,1,2,2-tetrachloroethane, and 1,1,2-trichloroethane are above laboratory control limit criteria and laboratory qualified (J4). These compounds are not detected in the associated samples. **Dibromomethane, 1,1,2,2-tetrachloroethane, and 1,1,2-trichloroethane are considered not detected (U) in the associated samples due to the elevated LCS recoveries.**

- SDG L1034970 - Analytical batch WG1182742: LCS recovery for dibromomethane, tetrachloroethene, and 1,1,2-trichloroethane are above control limit criteria and laboratory qualified (J4). **All associated positive detections for these compounds are estimated and qualified (J) and all associated non-detects are considered not detected (U) for the associated samples due to the elevated LCS recoveries.**

- SDG L1034970 - Analytical batch WG1182742: LCS recovery for 1,2,4-trimethylbenzene is recovered slightly below criteria and laboratory qualified (J4). **All associated sample results for 1,2,4-trimethylbenzene are estimated and qualified (J/UJ) due to a low LCS recovery.**

- SDG L1035515 - Analytical batch WG1183540: LCS recoveries for trans-1,3-dichloropropene, n-hexane, 2-butanone (MEK), and vinyl chloride are above control limit criteria and laboratory qualified (J4). **All associated positive detections for these compounds are estimated and qualified (J) and all associated non-detects are considered not detected (U) in the associated samples due to the elevated LCS recoveries.**

- SDGs L1035515 and L1036155 - Analytical batch WG1184696: LCS recovery for dichlorodifluoromethane (CFC-12) is recovered above criteria and laboratory qualified (J4). The compound is not detected in the associated samples. **Dichlorodifluoromethane (CFC-12) is considered not detected (U) in the associated samples due to the elevated LCS recovery.**

- SDG L1036155 - Analytical batch WG1183421: LCS recovery for 2,2-dichloropropane is recovered above criteria and laboratory qualified (J4). The compound is not detected in the associated samples. 2,2-Dichloropropane **is considered not detected (U) in the associated samples due to the elevated LCS recovery.**

- SDG L1036155 - Analytical batch WG1183540: LCS recoveries for trans-1,3-dichloropropene, n-hexane, and 2-butanone (MEK) are above control limit criteria and laboratory qualified (J4). **All associated positive detections for these compounds are estimated and qualified (J) and all associated non-detects are considered not detected (U) in the associated samples due to the elevated LCS recoveries.**

- SDGs L1036155, L1036161 and L1036473 - Analytical batch WG1184455: LCS recoveries for trans-1,3-dichloropropene and 1,1,1,2-tetrachloroethane are above control limit criteria and laboratory qualified (J4). These compounds are not detected in the associated samples. **All associated non-detects are considered not detected (U) in the associated samples due to the elevated LCS recoveries.**

- SDG L1036740 - Analytical batch WG1186927: LCS recovery for 1,1-dichloropropene is recovered above criteria and laboratory qualified (J4). This compound is not detected in the associated samples. **1,1-Dichloropropene is considered not detected (U) in the associated samples due to the elevated LCS recovery.**

- SDG L1036740- Analytical batch WG1188021: LCS recovery for 2,2-dichloropropane is recovered above criteria and laboratory qualified (J4). This compound is not detected in the associated samples. **2,2-Dichloropropane is considered not detected (U) in the associated samples due to the elevated LCS recovery.**

Total Solids by SM 2540 G 2011:
The LCS %Rs for total solids are within the laboratory control criteria for soils.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on a non-client sample. In cases where MS/MSDs were not performed refer to LCS/LCSDs for accuracy and precision data. MS/MSD % Rs and RPDs are acceptable with the following exceptions:

- SDG L1034970 - Analytical batch WG1181654: Soil MS/MSDs associated with the samples were performed on a non-client sample within the analytical batch. Multiple MS/MSD compounds on one of the spikes are recovered within control limits but recovered wide with elevated RPDs and are laboratory qualified (J3). Several MS/MSD recoveries were recovered less than 10% and laboratory qualified (J6). No action was taken other than to note that the spike was performed on a non-client sample. Refer to the LCS and field duplicate results (SDG L1036161) for accuracy and precision data.

- SDG L1034970 - Analytical batch WG1182742: MS/MSD spike analyses were performed on a client sample B-251-5. Acrylonitrile and vinyl acetate are recovered within control limits but recovered wide with an elevated RPD and laboratory qualified (J3). No action was taken on this basis since recoveries are within. MS/MSD recoveries for tetrachloroethene are not reported since the sample amount was far greater (>5X) than the spike amount and exceeded the upper calibration range. No action was taken other than to note this. MS/MSD recoveries for vinyl chloride are recovered low (<10%) and laboratory qualified (J6). **Sample B-251-5 vinyl chloride result is rejected (R) due to low spike recoveries.**

- SDG L1034970 - Analytical batch WG1183157: MS/MSD spike analyses were performed on a client sample B-267-10. MS/MSD recoveries for tetrachloroethene are not reported since the sample amount was far greater (>5X) than the spike amount. No action was taken other than to note this.

- SDG L1036473 - Analytical batch WG1184727: MS/MSD spike analyses were performed on a client sample B-252-25. MS/MSD recoveries for tetrachloroethene are not reported since the sample amount was far greater (>5X) than the spike amount. No action was taken other than to note this. 1,1,1-Trichloroethane is recovered within control limits but recovered wide with an elevated RPD and laboratory qualified (J3). No action was taken on this basis since recoveries are within.

- SDG L1036740 - Analytical batch WG1186927: Soil MS/MSDs associated with the samples were performed on a non-client sample within the analytical batch. Multiple MS/MSD compounds on one of the spikes are recovered within control limits but recovered wide with elevated RPDs and are laboratory qualified (J3). Multiple MS/MSD recoveries were recovered less than 10% and laboratory qualified (J6). MSD recovery for trichlorofluoromethane is recovered high and laboratory qualified (J5) due to matrix interference. MS/MSD recoveries for 1,2,4-trimethylbenzene are not reported since the sample amount was far greater (>5X) than the spike amount. No action was taken other than to note this. No action was taken other than to note that the spike was performed on a non-client sample. Refer to the LCS and field duplicate results (SDG L1036161) for accuracy and precision data.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory reports with the following exceptions and discussions:

- SDG L1036155 - Analytical batch WG1185140 (October 23, 2018 analysis): Associated internal standard recoveries are poor due to matrix interference for four samples (B-260-8, B-261-5, B-261-10, and B-261-20) and the tetrachloroethene results are laboratory qualified (V3). **Associated tetrachloroethene results for these samples are estimated biased high (J+) and no action is taken for the remaining results associated with WG1185140 (benzene, di-isopropyl ether, methyl tert-butyl ether, 1,2,4-trichlorobenzene, and trichloroethene).** Sample B-260-8 tetrachloroethene result is estimated and qualified (J) due to a low surrogate recovery however this qualification is superseded by an estimated biased high qualifier (J+) due to the poor internal standard recovery.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered into the EDDs. In some cases different chemical synonyms are used between the EDD and the hardcopy however associated Chemical

Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications. Additional information was requested from the laboratory to cross reference the EDD versus final laboratory data.

Quantitation Limits

The RDLs used for this sample group are acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes. PACE sample narrative notes indicate that for multiple soil samples the target compounds were too high to run the samples at a lower dilution. In some cases diluted target analytes are non-detects. No action was taken other than to note this.

Detections between the method detection limit (MDL) and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use with the following exception:

- **SDG L1034970: Sample B-251-5 vinyl chloride result is rejected (R) due to low spike recoveries.**

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.7		1	10/19/2018 15:14	WG1183341

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0143	0.0261	1	10/21/2018 13:56	WG1184188
Acrylonitrile	U		0.00199	0.0131	1	10/18/2018 15:48	WG1182742
Benzene	U		0.000418	0.00105	1	10/18/2018 15:48	WG1182742
Bromobenzene	U		0.00110	0.0131	1	10/18/2018 15:48	WG1182742
Bromodichloromethane	U		0.000823	0.00261	1	10/18/2018 15:48	WG1182742
Bromochloromethane	U		0.00118	0.00523	1	10/18/2018 15:48	WG1182742
Bromoform	U		0.00625	0.0261	1	10/18/2018 15:48	WG1182742
Bromomethane	U		0.00387	0.0131	1	10/18/2018 15:48	WG1182742
n-Butylbenzene	U		0.00401	0.0131	1	10/18/2018 15:48	WG1182742
sec-Butylbenzene	U		0.00264	0.0131	1	10/18/2018 15:48	WG1182742
tert-Butylbenzene	U		0.00162	0.00523	1	10/18/2018 15:48	WG1182742
Carbon disulfide	U		0.00424	0.0131	1	10/18/2018 15:48	WG1182742
Carbon tetrachloride	U		0.00113	0.00523	1	10/18/2018 15:48	WG1182742
Chlorobenzene	U		0.000599	0.00261	1	10/18/2018 15:48	WG1182742
Chlorodibromomethane	U		0.000470	0.00261	1	10/18/2018 15:48	WG1182742
Chloroethane	U		0.00113	0.00523	1	10/18/2018 15:48	WG1182742
Chloroform	0.000568 J	J	0.000434	0.00261	1	10/18/2018 15:48	WG1182742
Chloromethane	U		0.00145	0.0131	1	10/18/2018 15:48	WG1182742
2-Chlorotoluene	U		0.000961	0.00261	1	10/18/2018 15:48	WG1182742
4-Chlorotoluene	U		0.00118	0.00523	1	10/18/2018 15:48	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00533	0.0261	1	10/18/2018 15:48	WG1182742
1,2-Dibromoethane	U		0.000549	0.00261	1	10/18/2018 15:48	WG1182742
Dibromomethane	U U	J4	0.00105	0.00523	1	10/18/2018 15:48	WG1182742
1,2-Dichlorobenzene	U		0.00152	0.00523	1	10/18/2018 15:48	WG1182742
1,3-Dichlorobenzene	U		0.00178	0.00523	1	10/18/2018 15:48	WG1182742
1,4-Dichlorobenzene	U		0.00206	0.00523	1	10/18/2018 15:48	WG1182742
Dichlorodifluoromethane	U		0.000855	0.00261	1	10/18/2018 15:48	WG1182742
1,1-Dichloroethane	U		0.000601	0.00261	1	10/18/2018 15:48	WG1182742
1,2-Dichloroethane	U		0.000496	0.00261	1	10/18/2018 15:48	WG1182742
1,1-Dichloroethene	U		0.000523	0.00261	1	10/18/2018 15:48	WG1182742
cis-1,2-Dichloroethene	0.0102		0.000721	0.00261	1	10/18/2018 15:48	WG1182742
trans-1,2-Dichloroethene	U		0.00149	0.00523	1	10/18/2018 15:48	WG1182742
1,2-Dichloropropane	U		0.00133	0.00523	1	10/18/2018 15:48	WG1182742
1,1-Dichloropropene	U		0.000732	0.00261	1	10/18/2018 15:48	WG1182742
1,3-Dichloropropane	U		0.00183	0.00523	1	10/18/2018 15:48	WG1182742
cis-1,3-Dichloropropene	U		0.000709	0.00261	1	10/18/2018 15:48	WG1182742
trans-1,3-Dichloropropene	U		0.00160	0.00523	1	10/18/2018 15:48	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00146	0.00523	1	10/18/2018 15:48	WG1182742
2,2-Dichloropropane	U		0.000829	0.00261	1	10/18/2018 15:48	WG1182742
Di-isopropyl ether	U		0.000366	0.00105	1	10/18/2018 15:48	WG1182742
Ethylbenzene	U		0.000554	0.00261	1	10/18/2018 15:48	WG1182742
Hexachloro-1,3-butadiene	U		0.0133	0.0261	1	10/18/2018 15:48	WG1182742
2-Hexanone	U		0.0105	0.0261	1	10/18/2018 15:48	WG1182742
n-Hexane	0.00139 J	J	0.00111	0.00523	1	10/18/2018 15:48	WG1182742
Iodomethane	U		0.00632	0.0131	1	10/18/2018 15:48	WG1182742
Isopropylbenzene	U		0.000902	0.00261	1	10/18/2018 15:48	WG1182742
p-Isopropyltoluene	U		0.00243	0.00523	1	10/18/2018 15:48	WG1182742
2-Butanone (MEK)	U		0.0131	0.0261	1	10/18/2018 15:48	WG1182742
Methylene Chloride	U		0.00694	0.0261	1	10/18/2018 15:48	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0261	1	10/18/2018 15:48	WG1182742

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000308	0.00105	1	10/18/2018 15:48	WG1182742
Naphthalene	U		0.00326	0.0131	1	10/18/2018 15:48	WG1182742
n-Propylbenzene	U		0.00123	0.00523	1	10/18/2018 15:48	WG1182742
Styrene	U		0.00285	0.0131	1	10/18/2018 15:48	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000523	0.00261	1	10/18/2018 15:48	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000408	0.00261	1	10/18/2018 15:48	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000705	0.00261	1	10/18/2018 15:48	WG1182742
Tetrachloroethene	0.122 J	J4	0.000732	0.00261	1	10/18/2018 15:48	WG1182742
Toluene	U		0.00131	0.00523	1	10/18/2018 15:48	WG1182742
1,2,3-Trichlorobenzene	U		0.000653	0.00261	1	10/18/2018 15:48	WG1182742
1,2,4-Trichlorobenzene	U		0.00504	0.0131	1	10/18/2018 15:48	WG1182742
1,1,1-Trichloroethane	U		0.000287	0.00261	1	10/18/2018 15:48	WG1182742
1,1,2-Trichloroethane	U U	J4	0.000923	0.00261	1	10/18/2018 15:48	WG1182742
Trichloroethene	0.0109		0.000418	0.00105	1	10/18/2018 15:48	WG1182742
Trichlorofluoromethane	U		0.000523	0.00261	1	10/18/2018 15:48	WG1182742
1,2,3-Trichloropropane	U		0.00533	0.0131	1	10/18/2018 15:48	WG1182742
1,2,4-Trimethylbenzene	U UJ	J4	0.00121	0.00523	1	10/18/2018 15:48	WG1182742
1,2,3-Trimethylbenzene	U		0.00120	0.00523	1	10/18/2018 15:48	WG1182742
1,3,5-Trimethylbenzene	U		0.00113	0.00523	1	10/18/2018 15:48	WG1182742
Vinyl acetate	U		0.00368	0.0131	1	10/18/2018 15:48	WG1182742
Vinyl chloride	U		0.000714	0.00261	1	10/18/2018 15:48	WG1182742
Xylenes, Total	U		0.00500	0.00679	1	10/18/2018 15:48	WG1182742
(S) Toluene-d8	*117*			*75.0-131*		*10/18/2018 15:48*	WG1182742
(S) Toluene-d8	*100*			*75.0-131*		*10/21/2018 13:56*	WG1184188
(S) Dibromofluoromethane	*79.3*			*65.0-129*		*10/18/2018 15:48*	WG1182742
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/21/2018 13:56*	WG1184188
(S) 4-Bromofluorobenzene	*88.7*			*67.0-138*		*10/18/2018 15:48*	WG1182742
(S) 4-Bromofluorobenzene	*117*			*67.0-138*		*10/21/2018 13:56*	WG1184188

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B-249-8

Collected date/time: 10/15/18 09:20

SAMPLE RESULTS - 02

L1034970

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.6		1	10/19/2018 15:14	WG1183341

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0155	0.0282	1	10/21/2018 14:16	WG1184188
Acrylonitrile	U		0.00214	0.0141	1	10/18/2018 16:08	WG1182742
Benzene	U		0.000451	0.00113	1	10/18/2018 16:08	WG1182742
Bromobenzene	U		0.00118	0.0141	1	10/18/2018 16:08	WG1182742
Bromodichloromethane	U		0.000889	0.00282	1	10/18/2018 16:08	WG1182742
Bromochloromethane	U		0.00128	0.00564	1	10/18/2018 16:08	WG1182742
Bromoform	U		0.00675	0.0282	1	10/18/2018 16:08	WG1182742
Bromomethane	U		0.00418	0.0141	1	10/18/2018 16:08	WG1182742
n-Butylbenzene	U		0.00433	0.0141	1	10/18/2018 16:08	WG1182742
sec-Butylbenzene	U		0.00285	0.0141	1	10/18/2018 16:08	WG1182742
tert-Butylbenzene	U		0.00175	0.00564	1	10/18/2018 16:08	WG1182742
Carbon disulfide	U		0.00458	0.0141	1	10/18/2018 16:08	WG1182742
Carbon tetrachloride	U		0.00122	0.00564	1	10/18/2018 16:08	WG1182742
Chlorobenzene	U		0.000647	0.00282	1	10/18/2018 16:08	WG1182742
Chlorodibromomethane	U		0.000508	0.00282	1	10/18/2018 16:08	WG1182742
Chloroethane	U		0.00122	0.00564	1	10/18/2018 16:08	WG1182742
Chloroform	0.000675 J	J	0.000468	0.00282	1	10/18/2018 16:08	WG1182742
Chloromethane	U		0.00157	0.0141	1	10/18/2018 16:08	WG1182742
2-Chlorotoluene	U		0.00104	0.00282	1	10/18/2018 16:08	WG1182742
4-Chlorotoluene	U		0.00128	0.00564	1	10/18/2018 16:08	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0282	1	10/18/2018 16:08	WG1182742
1,2-Dibromoethane	U		0.000592	0.00282	1	10/18/2018 16:08	WG1182742
Dibromomethane	U U	J4	0.00113	0.00564	1	10/18/2018 16:08	WG1182742
1,2-Dichlorobenzene	U		0.00164	0.00564	1	10/18/2018 16:08	WG1182742
1,3-Dichlorobenzene	U		0.00192	0.00564	1	10/18/2018 16:08	WG1182742
1,4-Dichlorobenzene	U		0.00222	0.00564	1	10/18/2018 16:08	WG1182742
Dichlorodifluoromethane	U		0.000923	0.00282	1	10/18/2018 16:08	WG1182742
1,1-Dichloroethane	U		0.000649	0.00282	1	10/18/2018 16:08	WG1182742
1,2-Dichloroethane	U		0.000536	0.00282	1	10/18/2018 16:08	WG1182742
1,1-Dichloroethene	U		0.000564	0.00282	1	10/18/2018 16:08	WG1182742
cis-1,2-Dichloroethene	0.0287		0.000779	0.00282	1	10/18/2018 16:08	WG1182742
trans-1,2-Dichloroethene	U		0.00161	0.00564	1	10/18/2018 16:08	WG1182742
1,2-Dichloropropane	U		0.00143	0.00564	1	10/18/2018 16:08	WG1182742
1,1-Dichloropropene	U		0.000790	0.00282	1	10/18/2018 16:08	WG1182742
1,3-Dichloropropane	U		0.00197	0.00564	1	10/18/2018 16:08	WG1182742
cis-1,3-Dichloropropene	U		0.000765	0.00282	1	10/18/2018 16:08	WG1182742
trans-1,3-Dichloropropene	U		0.00173	0.00564	1	10/18/2018 16:08	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00158	0.00564	1	10/18/2018 16:08	WG1182742
2,2-Dichloropropane	U		0.000895	0.00282	1	10/18/2018 16:08	WG1182742
Di-isopropyl ether	U		0.000395	0.00113	1	10/18/2018 16:08	WG1182742
Ethylbenzene	U		0.000598	0.00282	1	10/18/2018 16:08	WG1182742
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	10/18/2018 16:08	WG1182742
2-Hexanone	U		0.0113	0.0282	1	10/18/2018 16:08	WG1182742
n-Hexane	U		0.00120	0.00564	1	10/18/2018 16:08	WG1182742
Iodomethane	U		0.00683	0.0141	1	10/18/2018 16:08	WG1182742
Isopropylbenzene	U		0.000974	0.00282	1	10/18/2018 16:08	WG1182742
p-Isopropyltoluene	U		0.00263	0.00564	1	10/18/2018 16:08	WG1182742
2-Butanone (MEK)	U		0.0141	0.0282	1	10/18/2018 16:08	WG1182742
Methylene Chloride	U		0.00749	0.0282	1	10/18/2018 16:08	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	10/18/2018 16:08	WG1182742

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	10/18/2018 16:08	WG1182742
Naphthalene	U		0.00352	0.0141	1	10/18/2018 16:08	WG1182742
n-Propylbenzene	U		0.00133	0.00564	1	10/18/2018 16:08	WG1182742
Styrene	U		0.00308	0.0141	1	10/18/2018 16:08	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000564	0.00282	1	10/18/2018 16:08	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000440	0.00282	1	10/18/2018 16:08	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000762	0.00282	1	10/18/2018 16:08	WG1182742
Tetrachloroethene	0.949 J	J4	0.000790	0.00282	1	10/18/2018 16:08	WG1182742
Toluene	U		0.00141	0.00564	1	10/18/2018 16:08	WG1182742
1,2,3-Trichlorobenzene	U		0.000705	0.00282	1	10/18/2018 16:08	WG1182742
1,2,4-Trichlorobenzene	U		0.00544	0.0141	1	10/18/2018 16:08	WG1182742
1,1,1-Trichloroethane	U		0.000310	0.00282	1	10/18/2018 16:08	WG1182742
1,1,2-Trichloroethane	U U	J4	0.000996	0.00282	1	10/18/2018 16:08	WG1182742
Trichloroethene	0.0828		0.000451	0.00113	1	10/18/2018 16:08	WG1182742
Trichlorofluoromethane	U		0.000564	0.00282	1	10/18/2018 16:08	WG1182742
1,2,3-Trichloropropane	U		0.00576	0.0141	1	10/18/2018 16:08	WG1182742
1,2,4-Trimethylbenzene	U UJ	J4	0.00131	0.00564	1	10/18/2018 16:08	WG1182742
1,2,3-Trimethylbenzene	U		0.00130	0.00564	1	10/18/2018 16:08	WG1182742
1,3,5-Trimethylbenzene	U		0.00122	0.00564	1	10/18/2018 16:08	WG1182742
Vinyl acetate	U		0.00397	0.0141	1	10/18/2018 16:08	WG1182742
Vinyl chloride	U		0.000771	0.00282	1	10/18/2018 16:08	WG1182742
Xylenes, Total	U		0.00539	0.00733	1	10/18/2018 16:08	WG1182742
(S) Toluene-d8	*117*			*75.0-131*		*10/18/2018 16:08*	WG1182742
(S) Toluene-d8	*99.7*			*75.0-131*		*10/21/2018 14:16*	WG1184188
(S) Dibromofluoromethane	*79.2*			*65.0-129*		*10/18/2018 16:08*	WG1182742
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/21/2018 14:16*	WG1184188
(S) 4-Bromofluorobenzene	*88.7*			*67.0-138*		*10/18/2018 16:08*	WG1182742
(S) 4-Bromofluorobenzene	*118*			*67.0-138*		*10/21/2018 14:16*	WG1184188

JC 11/16/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.3		1	10/19/2018 15:14	WG1183341

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.127	0.232	8	10/21/2018 16:15	WG1184188
Acrylonitrile	U		0.00220	0.0145	1	10/18/2018 16:28	WG1182742
Benzene	U		0.000463	0.00116	1	10/18/2018 16:28	WG1182742
Bromobenzene	U		0.00122	0.0145	1	10/18/2018 16:28	WG1182742
Bromodichloromethane	U		0.000913	0.00290	1	10/18/2018 16:28	WG1182742
Bromochloromethane	U		0.00131	0.00579	1	10/18/2018 16:28	WG1182742
Bromoform	U		0.00693	0.0290	1	10/18/2018 16:28	WG1182742
Bromomethane	U		0.00429	0.0145	1	10/18/2018 16:28	WG1182742
n-Butylbenzene	0.0247		0.00445	0.0145	1	10/18/2018 16:28	WG1182742
sec-Butylbenzene	U		0.00293	0.0145	1	10/18/2018 16:28	WG1182742
tert-Butylbenzene	U		0.00180	0.00579	1	10/18/2018 16:28	WG1182742
Carbon disulfide	U		0.00470	0.0145	1	10/18/2018 16:28	WG1182742
Carbon tetrachloride	U		0.00125	0.00579	1	10/18/2018 16:28	WG1182742
Chlorobenzene	U		0.000664	0.00290	1	10/18/2018 16:28	WG1182742
Chlorodibromomethane	U		0.000521	0.00290	1	10/18/2018 16:28	WG1182742
Chloroethane	U		0.00125	0.00579	1	10/18/2018 16:28	WG1182742
Chloroform	0.000777 J	J	0.000481	0.00290	1	10/18/2018 16:28	WG1182742
Chloromethane	U		0.00161	0.0145	1	10/18/2018 16:28	WG1182742
2-Chlorotoluene	U		0.00107	0.00290	1	10/18/2018 16:28	WG1182742
4-Chlorotoluene	U		0.00131	0.00579	1	10/18/2018 16:28	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0290	1	10/18/2018 16:28	WG1182742
1,2-Dibromoethane	U		0.000608	0.00290	1	10/18/2018 16:28	WG1182742
Dibromomethane	U U	J4	0.00116	0.00579	1	10/18/2018 16:28	WG1182742
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/18/2018 16:28	WG1182742
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/18/2018 16:28	WG1182742
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/18/2018 16:28	WG1182742
Dichlorodifluoromethane	U		0.000947	0.00290	1	10/18/2018 16:28	WG1182742
1,1-Dichloroethane	U		0.000666	0.00290	1	10/18/2018 16:28	WG1182742
1,2-Dichloroethane	U		0.000550	0.00290	1	10/18/2018 16:28	WG1182742
1,1-Dichloroethene	U		0.000579	0.00290	1	10/18/2018 16:28	WG1182742
cis-1,2-Dichloroethene	0.0692		0.000799	0.00290	1	10/18/2018 16:28	WG1182742
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	10/18/2018 16:28	WG1182742
1,2-Dichloropropane	U		0.00147	0.00579	1	10/18/2018 16:28	WG1182742
1,1-Dichloropropene	U		0.000811	0.00290	1	10/18/2018 16:28	WG1182742
1,3-Dichloropropane	U		0.00203	0.00579	1	10/18/2018 16:28	WG1182742
cis-1,3-Dichloropropene	U		0.000785	0.00290	1	10/18/2018 16:28	WG1182742
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	10/18/2018 16:28	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/18/2018 16:28	WG1182742
2,2-Dichloropropane	U		0.000918	0.00290	1	10/18/2018 16:28	WG1182742
Di-isopropyl ether	U		0.000405	0.00116	1	10/18/2018 16:28	WG1182742
Ethylbenzene	0.00143 J	J	0.000614	0.00290	1	10/18/2018 16:28	WG1182742
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/18/2018 16:28	WG1182742
2-Hexanone	U		0.0116	0.0290	1	10/18/2018 16:28	WG1182742
n-Hexane	0.00123 J	J	0.00123	0.00579	1	10/18/2018 16:28	WG1182742
Iodomethane	U		0.00701	0.0145	1	10/18/2018 16:28	WG1182742
Isopropylbenzene	U		0.000999	0.00290	1	10/18/2018 16:28	WG1182742
p-Isopropyltoluene	U		0.00270	0.00579	1	10/18/2018 16:28	WG1182742
2-Butanone (MEK)	U		0.0145	0.0290	1	10/18/2018 16:28	WG1182742
Methylene Chloride	U		0.00769	0.0290	1	10/18/2018 16:28	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/18/2018 16:28	WG1182742

JC 11/16/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000342	0.00116	1	10/18/2018 16:28	WG1182742
Naphthalene	0.191			0.00361	0.0145	1	10/18/2018 16:28	WG1182742
n-Propylbenzene	0.00402	J	J	0.00137	0.00579	1	10/18/2018 16:28	WG1182742
Styrene	U			0.00316	0.0145	1	10/18/2018 16:28	WG1182742
1,1,1,2-Tetrachloroethane	U			0.000579	0.00290	1	10/18/2018 16:28	WG1182742
1,1,2,2-Tetrachloroethane	U			0.000452	0.00290	1	10/18/2018 16:28	WG1182742
1,1,2-Trichlorotrifluoroethane	U			0.000782	0.00290	1	10/18/2018 16:28	WG1182742
Tetrachloroethene	1.97	J	J0	0.00649	0.0232	8	10/21/2018 16:15	WG1184188
Toluene	0.00236	J	J	0.00145	0.00579	1	10/18/2018 16:28	WG1182742
1,2,3-Trichlorobenzene	U			0.000724	0.00290	1	10/18/2018 16:28	WG1182742
1,2,4-Trichlorobenzene	U			0.00558	0.0145	1	10/18/2018 16:28	WG1182742
1,1,1-Trichloroethane	U			0.000318	0.00290	1	10/18/2018 16:28	WG1182742
1,1,2-Trichloroethane	U	U	J4	0.00102	0.00290	1	10/18/2018 16:28	WG1182742
Trichloroethene	0.214			0.000463	0.00116	1	10/18/2018 16:28	WG1182742
Trichlorofluoromethane	U			0.000579	0.00290	1	10/18/2018 16:28	WG1182742
1,2,3-Trichloropropane	U			0.00591	0.0145	1	10/18/2018 16:28	WG1182742
1,2,4-Trimethylbenzene	0.0425	J	J4	0.00134	0.00579	1	10/18/2018 16:28	WG1182742
1,2,3-Trimethylbenzene	0.0203			0.00133	0.00579	1	10/18/2018 16:28	WG1182742
1,3,5-Trimethylbenzene	0.0118			0.00125	0.00579	1	10/18/2018 16:28	WG1182742
Vinyl acetate	U			0.00408	0.0145	1	10/18/2018 16:28	WG1182742
Vinyl chloride	U			0.000791	0.00290	1	10/18/2018 16:28	WG1182742
Xylenes, Total	0.00973			0.00554	0.00753	1	10/18/2018 16:28	WG1182742
(S) Toluene-d8	*119*				*75.0-131*		*10/18/2018 16:28*	WG1182742
(S) Toluene-d8	*100*				*75.0-131*		*10/21/2018 16:15*	WG1184188
(S) Dibromofluoromethane	*78.2*				*65.0-129*		*10/18/2018 16:28*	WG1182742
(S) Dibromofluoromethane	*117*				*65.0-129*		*10/21/2018 16:15*	WG1184188
(S) 4-Bromofluorobenzene	*93.9*				*67.0-138*		*10/18/2018 16:28*	WG1182742
(S) 4-Bromofluorobenzene	*120*				*67.0-138*		*10/21/2018 16:15*	WG1184188

JC 11/16/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.3		1	10/19/2018 15:14	WG1183341

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.621	1.13	40	10/21/2018 16:35	WG1184188
Acrylonitrile	U		0.00215	0.0142	1	10/18/2018 16:48	WG1182742
Benzene	U		0.000453	0.00113	1	10/18/2018 16:48	WG1182742
Bromobenzene	U		0.00119	0.0142	1	10/18/2018 16:48	WG1182742
Bromodichloromethane	U		0.000892	0.00283	1	10/18/2018 16:48	WG1182742
Bromochloromethane	U		0.00128	0.00566	1	10/18/2018 16:48	WG1182742
Bromoform	U		0.00677	0.0283	1	10/18/2018 16:48	WG1182742
Bromomethane	U		0.00419	0.0142	1	10/18/2018 16:48	WG1182742
n-Butylbenzene	U		0.00435	0.0142	1	10/18/2018 16:48	WG1182742
sec-Butylbenzene	U		0.00286	0.0142	1	10/18/2018 16:48	WG1182742
tert-Butylbenzene	U		0.00176	0.00566	1	10/18/2018 16:48	WG1182742
Carbon disulfide	U		0.00460	0.0142	1	10/18/2018 16:48	WG1182742
Carbon tetrachloride	U		0.00122	0.00566	1	10/18/2018 16:48	WG1182742
Chlorobenzene	U		0.000649	0.00283	1	10/18/2018 16:48	WG1182742
Chlorodibromomethane	U		0.000510	0.00283	1	10/18/2018 16:48	WG1182742
Chloroethane	U		0.00122	0.00566	1	10/18/2018 16:48	WG1182742
Chloroform	0.000636 J	J	0.000470	0.00283	1	10/18/2018 16:48	WG1182742
Chloromethane	U		0.00157	0.0142	1	10/18/2018 16:48	WG1182742
2-Chlorotoluene	U		0.00104	0.00283	1	10/18/2018 16:48	WG1182742
4-Chlorotoluene	U		0.00128	0.00566	1	10/18/2018 16:48	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00577	0.0283	1	10/18/2018 16:48	WG1182742
1,2-Dibromoethane	U		0.000594	0.00283	1	10/18/2018 16:48	WG1182742
Dibromomethane	U U	J4	0.00113	0.00566	1	10/18/2018 16:48	WG1182742
1,2-Dichlorobenzene	U		0.00164	0.00566	1	10/18/2018 16:48	WG1182742
1,3-Dichlorobenzene	U		0.00192	0.00566	1	10/18/2018 16:48	WG1182742
1,4-Dichlorobenzene	U		0.00223	0.00566	1	10/18/2018 16:48	WG1182742
Dichlorodifluoromethane	U		0.000926	0.00283	1	10/18/2018 16:48	WG1182742
1,1-Dichloroethane	U		0.000651	0.00283	1	10/18/2018 16:48	WG1182742
1,2-Dichloroethane	U		0.000538	0.00283	1	10/18/2018 16:48	WG1182742
1,1-Dichloroethene	U		0.000566	0.00283	1	10/18/2018 16:48	WG1182742
cis-1,2-Dichloroethene	0.0459		0.000781	0.00283	1	10/18/2018 16:48	WG1182742
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	10/18/2018 16:48	WG1182742
1,2-Dichloropropane	U		0.00144	0.00566	1	10/18/2018 16:48	WG1182742
1,1-Dichloropropene	U		0.000793	0.00283	1	10/18/2018 16:48	WG1182742
1,3-Dichloropropane	U		0.00198	0.00566	1	10/18/2018 16:48	WG1182742
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	10/18/2018 16:48	WG1182742
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	10/18/2018 16:48	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00159	0.00566	1	10/18/2018 16:48	WG1182742
2,2-Dichloropropane	U		0.000898	0.00283	1	10/18/2018 16:48	WG1182742
Di-isopropyl ether	U		0.000396	0.00113	1	10/18/2018 16:48	WG1182742
Ethylbenzene	U		0.000600	0.00283	1	10/18/2018 16:48	WG1182742
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	10/18/2018 16:48	WG1182742
2-Hexanone	U		0.0113	0.0283	1	10/18/2018 16:48	WG1182742
n-Hexane	U		0.00120	0.00566	1	10/18/2018 16:48	WG1182742
Iodomethane	U		0.00685	0.0142	1	10/18/2018 16:48	WG1182742
Isopropylbenzene	U		0.000977	0.00283	1	10/18/2018 16:48	WG1182742
p-Isopropyltoluene	U		0.00264	0.00566	1	10/18/2018 16:48	WG1182742
2-Butanone (MEK)	U		0.0142	0.0283	1	10/18/2018 16:48	WG1182742
Methylene Chloride	U		0.00752	0.0283	1	10/18/2018 16:48	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	10/18/2018 16:48	WG1182742

JC 11/16/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	10/18/2018 16:48	WG1182742
Naphthalene	U		0.00353	0.0142	1	10/18/2018 16:48	WG1182742
n-Propylbenzene	U		0.00134	0.00566	1	10/18/2018 16:48	WG1182742
Styrene	U		0.00309	0.0142	1	10/18/2018 16:48	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	10/18/2018 16:48	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	10/18/2018 16:48	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	10/18/2018 16:48	WG1182742
Tetrachloroethene	8.35 J	J0	0.0317	0.113	40	10/21/2018 16:35	WG1184188
Toluene	U		0.00142	0.00566	1	10/18/2018 16:48	WG1182742
1,2,3-Trichlorobenzene	U		0.000708	0.00283	1	10/18/2018 16:48	WG1182742
1,2,4-Trichlorobenzene	U		0.00546	0.0142	1	10/18/2018 16:48	WG1182742
1,1,1-Trichloroethane	U		0.000311	0.00283	1	10/18/2018 16:48	WG1182742
1,1,2-Trichloroethane	U U	J4	0.00100	0.00283	1	10/18/2018 16:48	WG1182742
Trichloroethene	0.150		0.000453	0.00113	1	10/18/2018 16:48	WG1182742
Trichlorofluoromethane	U		0.000566	0.00283	1	10/18/2018 16:48	WG1182742
1,2,3-Trichloropropane	U		0.00577	0.0142	1	10/18/2018 16:48	WG1182742
1,2,4-Trimethylbenzene	U UJ	J4	0.00131	0.00566	1	10/18/2018 16:48	WG1182742
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	10/18/2018 16:48	WG1182742
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	10/18/2018 16:48	WG1182742
Vinyl acetate	U		0.00399	0.0142	1	10/18/2018 16:48	WG1182742
Vinyl chloride	U		0.000773	0.00283	1	10/18/2018 16:48	WG1182742
Xylenes, Total	U		0.00541	0.00736	1	10/18/2018 16:48	WG1182742
(S) Toluene-d8	*117*			*75.0-131*		*10/18/2018 16:48*	WG1182742
(S) Toluene-d8	*98.2*			*75.0-131*		*10/21/2018 16:35*	WG1184188
(S) Dibromofluoromethane	*79.4*			*65.0-129*		*10/18/2018 16:48*	WG1182742
(S) Dibromofluoromethane	*117*			*65.0-129*		*10/21/2018 16:35*	WG1184188
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*10/18/2018 16:48*	WG1182742
(S) 4-Bromofluorobenzene	*126*			*67.0-138*		*10/21/2018 16:35*	WG1184188

JC 11/16/18

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.6		1	10/16/2018 14:25	WG1181703

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		11.3	20.7	700	10/17/2018 13:12	WG1182096
Acrylonitrile	U		0.00224	0.0148	1	10/16/2018 19:01	WG1181654
Benzene	U		0.000473	0.00118	1	10/16/2018 19:01	WG1181654
Bromobenzene	U		0.00124	0.0148	1	10/16/2018 19:01	WG1181654
Bromodichloromethane	U		0.000931	0.00295	1	10/16/2018 19:01	WG1181654
Bromochloromethane	U		0.00134	0.00591	1	10/16/2018 19:01	WG1181654
Bromoform	U		0.00707	0.0295	1	10/16/2018 19:01	WG1181654
Bromomethane	U		0.00437	0.0148	1	10/16/2018 19:01	WG1181654
n-Butylbenzene	U		0.00454	0.0148	1	10/16/2018 19:01	WG1181654
sec-Butylbenzene	U		0.00299	0.0148	1	10/16/2018 19:01	WG1181654
tert-Butylbenzene	U		0.00183	0.00591	1	10/16/2018 19:01	WG1181654
Carbon disulfide	U		0.00480	0.0148	1	10/16/2018 19:01	WG1181654
Carbon tetrachloride	U		0.00128	0.00591	1	10/16/2018 19:01	WG1181654
Chlorobenzene	U		0.000677	0.00295	1	10/16/2018 19:01	WG1181654
Chlorodibromomethane	U		0.000532	0.00295	1	10/16/2018 19:01	WG1181654
Chloroethane	U		0.00128	0.00591	1	10/16/2018 19:01	WG1181654
Chloroform	U		0.000490	0.00295	1	10/16/2018 19:01	WG1181654
Chloromethane	U		0.00164	0.0148	1	10/16/2018 19:01	WG1181654
2-Chlorotoluene	U		0.00109	0.00295	1	10/16/2018 19:01	WG1181654
4-Chlorotoluene	U		0.00134	0.00591	1	10/16/2018 19:01	WG1181654
1,2-Dibromo-3-Chloropropane	U		0.00603	0.0295	1	10/16/2018 19:01	WG1181654
1,2-Dibromoethane	U		0.000620	0.00295	1	10/16/2018 19:01	WG1181654
Dibromomethane	U U	J4	0.00118	0.00591	1	10/16/2018 19:01	WG1181654
1,2-Dichlorobenzene	U		0.00171	0.00591	1	10/16/2018 19:01	WG1181654 JC 11/16/18
1,3-Dichlorobenzene	U		0.00201	0.00591	1	10/16/2018 19:01	WG1181654
1,4-Dichlorobenzene	U		0.00233	0.00591	1	10/16/2018 19:01	WG1181654
Dichlorodifluoromethane	U		0.000966	0.00295	1	10/16/2018 19:01	WG1181654
1,1-Dichloroethane	U		0.000679	0.00295	1	10/16/2018 19:01	WG1181654
1,2-Dichloroethane	U		0.000561	0.00295	1	10/16/2018 19:01	WG1181654
1,1-Dichloroethene	U		0.000591	0.00295	1	10/16/2018 19:01	WG1181654
cis-1,2-Dichloroethene	0.558		0.000815	0.00295	1	10/16/2018 19:01	WG1181654
trans-1,2-Dichloroethene	0.00420 J	J	0.00169	0.00591	1	10/16/2018 19:01	WG1181654
1,2-Dichloropropane	U		0.00150	0.00591	1	10/16/2018 19:01	WG1181654
1,1-Dichloropropene	U		0.000827	0.00295	1	10/16/2018 19:01	WG1181654
1,3-Dichloropropane	U		0.00207	0.00591	1	10/16/2018 19:01	WG1181654
cis-1,3-Dichloropropene	U		0.000801	0.00295	1	10/16/2018 19:01	WG1181654
trans-1,3-Dichloropropene	U		0.00181	0.00591	1	10/16/2018 19:01	WG1181654
trans-1,4-Dichloro-2-butene	U		0.00165	0.00591	1	10/16/2018 19:01	WG1181654
2,2-Dichloropropane	U		0.000937	0.00295	1	10/16/2018 19:01	WG1181654
Di-isopropyl ether	U		0.000414	0.00118	1	10/16/2018 19:01	WG1181654
Ethylbenzene	U		0.000626	0.00295	1	10/16/2018 19:01	WG1181654
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	10/16/2018 19:01	WG1181654
2-Hexanone	U		0.0118	0.0295	1	10/16/2018 19:01	WG1181654
n-Hexane	U		0.00125	0.00591	1	10/16/2018 19:01	WG1181654
Iodomethane	U		0.00715	0.0148	1	10/16/2018 19:01	WG1181654
Isopropylbenzene	U		0.00102	0.00295	1	10/16/2018 19:01	WG1181654
p-Isopropyltoluene	U		0.00275	0.00591	1	10/16/2018 19:01	WG1181654
2-Butanone (MEK)	U		0.0148	0.0295	1	10/16/2018 19:01	WG1181654
Methylene Chloride	U		0.00785	0.0295	1	10/16/2018 19:01	WG1181654
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	10/16/2018 19:01	WG1181654

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	UJ J0	0.000349	0.00118	1	10/16/2018 19:01	WG1181654
Naphthalene	U		0.00369	0.0148	1	10/16/2018 19:01	WG1181654
n-Propylbenzene	U		0.00139	0.00591	1	10/16/2018 19:01	WG1181654
Styrene	U		0.00323	0.0148	1	10/16/2018 19:01	WG1181654
1,1,1,2-Tetrachloroethane	U		0.000591	0.00295	1	10/16/2018 19:01	WG1181654
1,1,2,2-Tetrachloroethane	U	U J4	0.000461	0.00295	1	10/16/2018 19:01	WG1181654
1,1,2-Trichlorotrifluoroethane	U		0.000798	0.00295	1	10/16/2018 19:01	WG1181654
Tetrachloroethene	10.3		0.579	2.07	700	10/17/2018 13:12	WG1182096
Toluene	U		0.00148	0.00591	1	10/16/2018 19:01	WG1181654
1,2,3-Trichlorobenzene	U		0.000738	0.00295	1	10/16/2018 19:01	WG1181654
1,2,4-Trichlorobenzene	U		0.00569	0.0148	1	10/16/2018 19:01	WG1181654
1,1,1-Trichloroethane	U		0.000325	0.00295	1	10/16/2018 19:01	WG1181654
1,1,2-Trichloroethane	U	U J4	0.00104	0.00295	1	10/16/2018 19:01	WG1181654
Trichloroethene	0.661		0.000473	0.00118	1	10/16/2018 19:01	WG1181654
Trichlorofluoromethane	U		0.000591	0.00295	1	10/16/2018 19:01	WG1181654
1,2,3-Trichloropropane	U		0.00603	0.0148	1	10/16/2018 19:01	WG1181654
1,2,4-Trimethylbenzene	U		0.00137	0.00591	1	10/16/2018 19:01	WG1181654
1,2,3-Trimethylbenzene	U		0.00136	0.00591	1	10/16/2018 19:01	WG1181654
1,3,5-Trimethylbenzene	U		0.00128	0.00591	1	10/16/2018 19:01	WG1181654
Vinyl acetate	U		0.00416	0.0148	1	10/16/2018 19:01	WG1181654
Vinyl chloride	U		0.000807	0.00295	1	10/16/2018 19:01	WG1181654
Xylenes, Total	U		0.00565	0.00768	1	10/16/2018 19:01	WG1181654
(S) Toluene-d8	*118*			*75.0-131*		*10/16/2018 19:01*	WG1181654
(S) Toluene-d8	*99.4*			*75.0-131*		*10/17/2018 13:12*	WG1182096
(S) Dibromofluoromethane	*74.9*			*65.0-129*		*10/16/2018 19:01*	WG1181654
(S) Dibromofluoromethane	*119*			*65.0-129*		*10/17/2018 13:12*	WG1182096
(S) 4-Bromofluorobenzene	*88.6*			*67.0-138*		*10/16/2018 19:01*	WG1181654
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/17/2018 13:12*	WG1182096

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.6		1	10/19/2018 15:14	WG1183341

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0151	0.0276	1	10/21/2018 14:36	WG1184188
Acrylonitrile	U			0.00210	0.0138	1	10/18/2018 17:07	WG1182742
Benzene	U			0.000442	0.00110	1	10/18/2018 17:07	WG1182742
Bromobenzene	U			0.00116	0.0138	1	10/18/2018 17:07	WG1182742
Bromodichloromethane	U			0.000870	0.00276	1	10/18/2018 17:07	WG1182742
Bromochloromethane	U			0.00125	0.00552	1	10/18/2018 17:07	WG1182742
Bromoform	U			0.00660	0.0276	1	10/18/2018 17:07	WG1182742
Bromomethane	U			0.00409	0.0138	1	10/18/2018 17:07	WG1182742
n-Butylbenzene	U			0.00424	0.0138	1	10/18/2018 17:07	WG1182742
sec-Butylbenzene	U			0.00279	0.0138	1	10/18/2018 17:07	WG1182742
tert-Butylbenzene	U			0.00171	0.00552	1	10/18/2018 17:07	WG1182742
Carbon disulfide	U			0.00448	0.0138	1	10/18/2018 17:07	WG1182742
Carbon tetrachloride	U			0.00119	0.00552	1	10/18/2018 17:07	WG1182742
Chlorobenzene	U			0.000633	0.00276	1	10/18/2018 17:07	WG1182742
Chlorodibromomethane	U			0.000497	0.00276	1	10/18/2018 17:07	WG1182742
Chloroethane	U			0.00119	0.00552	1	10/18/2018 17:07	WG1182742
Chloroform	0.000710	J	J	0.000458	0.00276	1	10/18/2018 17:07	WG1182742
Chloromethane	U			0.00153	0.0138	1	10/18/2018 17:07	WG1182742
2-Chlorotoluene	U			0.00102	0.00276	1	10/18/2018 17:07	WG1182742
4-Chlorotoluene	U			0.00125	0.00552	1	10/18/2018 17:07	WG1182742
1,2-Dibromo-3-Chloropropane	U			0.00563	0.0276	1	10/18/2018 17:07	WG1182742
1,2-Dibromoethane	U			0.000580	0.00276	1	10/18/2018 17:07	WG1182742
Dibromomethane	U	U	J4	0.00110	0.00552	1	10/18/2018 17:07	WG1182742
1,2-Dichlorobenzene	U			0.00160	0.00552	1	10/18/2018 17:07	WG1182742
1,3-Dichlorobenzene	U			0.00188	0.00552	1	10/18/2018 17:07	WG1182742
1,4-Dichlorobenzene	U			0.00218	0.00552	1	10/18/2018 17:07	WG1182742
Dichlorodifluoromethane	U			0.000903	0.00276	1	10/18/2018 17:07	WG1182742
1,1-Dichloroethane	U			0.000635	0.00276	1	10/18/2018 17:07	WG1182742
1,2-Dichloroethane	U			0.000524	0.00276	1	10/18/2018 17:07	WG1182742
1,1-Dichloroethene	U			0.000552	0.00276	1	10/18/2018 17:07	WG1182742
cis-1,2-Dichloroethene	0.00164	J	J	0.000762	0.00276	1	10/18/2018 17:07	WG1182742
trans-1,2-Dichloroethene	U			0.00158	0.00552	1	10/18/2018 17:07	WG1182742
1,2-Dichloropropane	U			0.00140	0.00552	1	10/18/2018 17:07	WG1182742
1,1-Dichloropropene	U			0.000773	0.00276	1	10/18/2018 17:07	WG1182742
1,3-Dichloropropane	U			0.00193	0.00552	1	10/18/2018 17:07	WG1182742
cis-1,3-Dichloropropene	U			0.000749	0.00276	1	10/18/2018 17:07	WG1182742
trans-1,3-Dichloropropene	U			0.00169	0.00552	1	10/18/2018 17:07	WG1182742
trans-1,4-Dichloro-2-butene	U			0.00155	0.00552	1	10/18/2018 17:07	WG1182742
2,2-Dichloropropane	U			0.000876	0.00276	1	10/18/2018 17:07	WG1182742
Di-isopropyl ether	U			0.000386	0.00110	1	10/18/2018 17:07	WG1182742
Ethylbenzene	U			0.000585	0.00276	1	10/18/2018 17:07	WG1182742
Hexachloro-1,3-butadiene	U			0.0140	0.0276	1	10/18/2018 17:07	WG1182742
2-Hexanone	U			0.0110	0.0276	1	10/18/2018 17:07	WG1182742
n-Hexane	0.00136	J	J	0.00117	0.00552	1	10/18/2018 17:07	WG1182742
Iodomethane	U			0.00668	0.0138	1	10/18/2018 17:07	WG1182742
Isopropylbenzene	U			0.000953	0.00276	1	10/18/2018 17:07	WG1182742
p-Isopropyltoluene	U			0.00257	0.00552	1	10/18/2018 17:07	WG1182742
2-Butanone (MEK)	U			0.0138	0.0276	1	10/18/2018 17:07	WG1182742
Methylene Chloride	U			0.00733	0.0276	1	10/18/2018 17:07	WG1182742
4-Methyl-2-pentanone (MIBK)	U			0.0110	0.0276	1	10/18/2018 17:07	WG1182742

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00110	1	10/18/2018 17:07	WG1182742
Naphthalene	U		0.00345	0.0138	1	10/18/2018 17:07	WG1182742
n-Propylbenzene	U		0.00130	0.00552	1	10/18/2018 17:07	WG1182742
Styrene	U		0.00301	0.0138	1	10/18/2018 17:07	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000552	0.00276	1	10/18/2018 17:07	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000431	0.00276	1	10/18/2018 17:07	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000745	0.00276	1	10/18/2018 17:07	WG1182742
Tetrachloroethene	0.701 J	J4	0.000773	0.00276	1	10/18/2018 17:07	WG1182742
Toluene	U		0.00138	0.00552	1	10/18/2018 17:07	WG1182742
1,2,3-Trichlorobenzene	U		0.000690	0.00276	1	10/18/2018 17:07	WG1182742
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	10/18/2018 17:07	WG1182742
1,1,1-Trichloroethane	U		0.000304	0.00276	1	10/18/2018 17:07	WG1182742
1,1,2-Trichloroethane	U U	J4	0.000975	0.00276	1	10/18/2018 17:07	WG1182742
Trichloroethene	0.00576		0.000442	0.00110	1	10/18/2018 17:07	WG1182742
Trichlorofluoromethane	U		0.000552	0.00276	1	10/18/2018 17:07	WG1182742
1,2,3-Trichloropropane	U		0.00563	0.0138	1	10/18/2018 17:07	WG1182742
1,2,4-Trimethylbenzene	U UJ	J4	0.00128	0.00552	1	10/18/2018 17:07	WG1182742
1,2,3-Trimethylbenzene	U		0.00127	0.00552	1	10/18/2018 17:07	WG1182742
1,3,5-Trimethylbenzene	U		0.00119	0.00552	1	10/18/2018 17:07	WG1182742
Vinyl acetate	U		0.00389	0.0138	1	10/18/2018 17:07	WG1182742
Vinyl chloride	U		0.000754	0.00276	1	10/18/2018 17:07	WG1182742
Xylenes, Total	U		0.00528	0.00718	1	10/18/2018 17:07	WG1182742
(S) Toluene-d8	*118*			*75.0-131*		*10/18/2018 17:07*	WG1182742
(S) Toluene-d8	*100*			*75.0-131*		*10/21/2018 14:36*	WG1184188
(S) Dibromofluoromethane	*78.3*			*65.0-129*		*10/18/2018 17:07*	WG1182742
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/21/2018 14:36*	WG1184188
(S) 4-Bromofluorobenzene	*87.0*			*67.0-138*		*10/18/2018 17:07*	WG1182742
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/21/2018 14:36*	WG1184188

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.8		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.122	0.223	8	10/21/2018 16:55	WG1184188
Acrylonitrile	U		0.00212	0.0139	1	10/18/2018 17:27	WG1182742
Benzene	U		0.000445	0.00111	1	10/18/2018 17:27	WG1182742
Bromobenzene	U		0.00117	0.0139	1	10/18/2018 17:27	WG1182742
Bromodichloromethane	U		0.000877	0.00278	1	10/18/2018 17:27	WG1182742
Bromochloromethane	U		0.00126	0.00557	1	10/18/2018 17:27	WG1182742
Bromoform	U		0.00666	0.0278	1	10/18/2018 17:27	WG1182742
Bromomethane	U		0.00412	0.0139	1	10/18/2018 17:27	WG1182742
n-Butylbenzene	U		0.00428	0.0139	1	10/18/2018 17:27	WG1182742
sec-Butylbenzene	U		0.00282	0.0139	1	10/18/2018 17:27	WG1182742
tert-Butylbenzene	U		0.00173	0.00557	1	10/18/2018 17:27	WG1182742
Carbon disulfide	U		0.00452	0.0139	1	10/18/2018 17:27	WG1182742
Carbon tetrachloride	U		0.00120	0.00557	1	10/18/2018 17:27	WG1182742
Chlorobenzene	U		0.000638	0.00278	1	10/18/2018 17:27	WG1182742
Chlorodibromomethane	U		0.000501	0.00278	1	10/18/2018 17:27	WG1182742
Chloroethane	U		0.00120	0.00557	1	10/18/2018 17:27	WG1182742
Chloroform	U		0.000462	0.00278	1	10/18/2018 17:27	WG1182742
Chloromethane	U		0.00155	0.0139	1	10/18/2018 17:27	WG1182742
2-Chlorotoluene	U		0.00102	0.00278	1	10/18/2018 17:27	WG1182742
4-Chlorotoluene	U		0.00126	0.00557	1	10/18/2018 17:27	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00568	0.0278	1	10/18/2018 17:27	WG1182742
1,2-Dibromoethane	U		0.000585	0.00278	1	10/18/2018 17:27	WG1182742
Dibromomethane	U U	J4	0.00111	0.00557	1	10/18/2018 17:27	WG1182742
1,2-Dichlorobenzene	U		0.00161	0.00557	1	10/18/2018 17:27	WG1182742
1,3-Dichlorobenzene	U		0.00189	0.00557	1	10/18/2018 17:27	WG1182742
1,4-Dichlorobenzene	U		0.00219	0.00557	1	10/18/2018 17:27	WG1182742
Dichlorodifluoromethane	U		0.000911	0.00278	1	10/18/2018 17:27	WG1182742
1,1-Dichloroethane	U		0.000640	0.00278	1	10/18/2018 17:27	WG1182742
1,2-Dichloroethane	U		0.000529	0.00278	1	10/18/2018 17:27	WG1182742
1,1-Dichloroethene	U		0.000557	0.00278	1	10/18/2018 17:27	WG1182742
cis-1,2-Dichloroethene	0.00387		0.000768	0.00278	1	10/18/2018 17:27	WG1182742
trans-1,2-Dichloroethene	U		0.00159	0.00557	1	10/18/2018 17:27	WG1182742
1,2-Dichloropropane	U		0.00141	0.00557	1	10/18/2018 17:27	WG1182742
1,1-Dichloropropene	U		0.000779	0.00278	1	10/18/2018 17:27	WG1182742
1,3-Dichloropropane	U		0.00195	0.00557	1	10/18/2018 17:27	WG1182742
cis-1,3-Dichloropropene	U		0.000755	0.00278	1	10/18/2018 17:27	WG1182742
trans-1,3-Dichloropropene	U		0.00170	0.00557	1	10/18/2018 17:27	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00156	0.00557	1	10/18/2018 17:27	WG1182742
2,2-Dichloropropane	U		0.000883	0.00278	1	10/18/2018 17:27	WG1182742
Di-isopropyl ether	U		0.000390	0.00111	1	10/18/2018 17:27	WG1182742
Ethylbenzene	U		0.000590	0.00278	1	10/18/2018 17:27	WG1182742
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	10/18/2018 17:27	WG1182742
2-Hexanone	U		0.0111	0.0278	1	10/18/2018 17:27	WG1182742
n-Hexane	U		0.00118	0.00557	1	10/18/2018 17:27	WG1182742
Iodomethane	U		0.00674	0.0139	1	10/18/2018 17:27	WG1182742
Isopropylbenzene	U		0.000961	0.00278	1	10/18/2018 17:27	WG1182742
p-Isopropyltoluene	U		0.00259	0.00557	1	10/18/2018 17:27	WG1182742
2-Butanone (MEK)	U		0.0139	0.0278	1	10/18/2018 17:27	WG1182742
Methylene Chloride	U		0.00739	0.0278	1	10/18/2018 17:27	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	10/18/2018 17:27	WG1182742

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000328	0.00111	1	10/18/2018 17:27	WG1182742
Naphthalene	U		0.00347	0.0139	1	10/18/2018 17:27	WG1182742
n-Propylbenzene	U		0.00131	0.00557	1	10/18/2018 17:27	WG1182742
Styrene	U		0.00304	0.0139	1	10/18/2018 17:27	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000557	0.00278	1	10/18/2018 17:27	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	10/18/2018 17:27	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000752	0.00278	1	10/18/2018 17:27	WG1182742
Tetrachloroethene	1.81 J	J0	0.00624	0.0223	8	10/21/2018 16:55	WG1184188
Toluene	U		0.00139	0.00557	1	10/18/2018 17:27	WG1182742
1,2,3-Trichlorobenzene	U		0.000696	0.00278	1	10/18/2018 17:27	WG1182742
1,2,4-Trichlorobenzene	U		0.00537	0.0139	1	10/18/2018 17:27	WG1182742
1,1,1-Trichloroethane	U		0.000306	0.00278	1	10/18/2018 17:27	WG1182742
1,1,2-Trichloroethane	U U	J4	0.000983	0.00278	1	10/18/2018 17:27	WG1182742
Trichloroethene	0.0269		0.000445	0.00111	1	10/18/2018 17:27	WG1182742
Trichlorofluoromethane	U		0.000557	0.00278	1	10/18/2018 17:27	WG1182742
1,2,3-Trichloropropane	U		0.00568	0.0139	1	10/18/2018 17:27	WG1182742
1,2,4-Trimethylbenzene	U UJ	J4	0.00129	0.00557	1	10/18/2018 17:27	WG1182742
1,2,3-Trimethylbenzene	U		0.00128	0.00557	1	10/18/2018 17:27	WG1182742
1,3,5-Trimethylbenzene	U		0.00120	0.00557	1	10/18/2018 17:27	WG1182742
Vinyl acetate	U		0.00392	0.0139	1	10/18/2018 17:27	WG1182742
Vinyl chloride	U		0.000760	0.00278	1	10/18/2018 17:27	WG1182742
Xylenes, Total	U		0.00532	0.00724	1	10/18/2018 17:27	WG1182742
(S) Toluene-d8	*118*			*75.0-131*		*10/18/2018 17:27*	WG1182742
(S) Toluene-d8	*101*			*75.0-131*		*10/21/2018 16:55*	WG1184188
(S) Dibromofluoromethane	*76.6*			*65.0-129*		*10/18/2018 17:27*	WG1182742
(S) Dibromofluoromethane	*117*			*65.0-129*		*10/21/2018 16:55*	WG1184188
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*10/18/2018 17:27*	WG1182742
(S) 4-Bromofluorobenzene	*124*			*67.0-138*		*10/21/2018 16:55*	WG1184188

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.9		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		1.22	2.22	80	10/21/2018 17:15	WG1184188
Acrylonitrile	U		0.00211	0.0139	1	10/18/2018 17:47	WG1182742
Benzene	U		0.000445	0.00111	1	10/18/2018 17:47	WG1182742
Bromobenzene	U		0.00117	0.0139	1	10/18/2018 17:47	WG1182742
Bromodichloromethane	U		0.000877	0.00278	1	10/18/2018 17:47	WG1182742
Bromochloromethane	U		0.00126	0.00556	1	10/18/2018 17:47	WG1182742
Bromoform	U		0.00665	0.0278	1	10/18/2018 17:47	WG1182742
Bromomethane	U		0.00412	0.0139	1	10/18/2018 17:47	WG1182742
n-Butylbenzene	U		0.00427	0.0139	1	10/18/2018 17:47	WG1182742
sec-Butylbenzene	U		0.00281	0.0139	1	10/18/2018 17:47	WG1182742
tert-Butylbenzene	U		0.00172	0.00556	1	10/18/2018 17:47	WG1182742
Carbon disulfide	U		0.00452	0.0139	1	10/18/2018 17:47	WG1182742
Carbon tetrachloride	U		0.00120	0.00556	1	10/18/2018 17:47	WG1182742
Chlorobenzene	U		0.000637	0.00278	1	10/18/2018 17:47	WG1182742
Chlorodibromomethane	U		0.000501	0.00278	1	10/18/2018 17:47	WG1182742
Chloroethane	U		0.00120	0.00556	1	10/18/2018 17:47	WG1182742
Chloroform	0.000645 J	J	0.000462	0.00278	1	10/18/2018 17:47	WG1182742
Chloromethane	U		0.00155	0.0139	1	10/18/2018 17:47	WG1182742
2-Chlorotoluene	U		0.00102	0.00278	1	10/18/2018 17:47	WG1182742
4-Chlorotoluene	U		0.00126	0.00556	1	10/18/2018 17:47	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00567	0.0278	1	10/18/2018 17:47	WG1182742
1,2-Dibromoethane	U		0.000584	0.00278	1	10/18/2018 17:47	WG1182742
Dibromomethane	U U	J4	0.00111	0.00556	1	10/18/2018 17:47	WG1182742
1,2-Dichlorobenzene	U		0.00161	0.00556	1	10/18/2018 17:47	WG1182742
1,3-Dichlorobenzene	U		0.00189	0.00556	1	10/18/2018 17:47	WG1182742
1,4-Dichlorobenzene	U		0.00219	0.00556	1	10/18/2018 17:47	WG1182742
Dichlorodifluoromethane	U		0.000910	0.00278	1	10/18/2018 17:47	WG1182742
1,1-Dichloroethane	U		0.000640	0.00278	1	10/18/2018 17:47	WG1182742
1,2-Dichloroethane	U		0.000528	0.00278	1	10/18/2018 17:47	WG1182742
1,1-Dichloroethene	U		0.000556	0.00278	1	10/18/2018 17:47	WG1182742
cis-1,2-Dichloroethene	0.123		0.000768	0.00278	1	10/18/2018 17:47	WG1182742
trans-1,2-Dichloroethene	0.00166 J	J	0.00159	0.00556	1	10/18/2018 17:47	WG1182742
1,2-Dichloropropane	U		0.00141	0.00556	1	10/18/2018 17:47	WG1182742
1,1-Dichloropropene	U		0.000779	0.00278	1	10/18/2018 17:47	WG1182742
1,3-Dichloropropane	U		0.00195	0.00556	1	10/18/2018 17:47	WG1182742
cis-1,3-Dichloropropene	U		0.000754	0.00278	1	10/18/2018 17:47	WG1182742
trans-1,3-Dichloropropene	U		0.00170	0.00556	1	10/18/2018 17:47	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00156	0.00556	1	10/18/2018 17:47	WG1182742
2,2-Dichloropropane	U		0.000882	0.00278	1	10/18/2018 17:47	WG1182742
Di-isopropyl ether	U		0.000389	0.00111	1	10/18/2018 17:47	WG1182742
Ethylbenzene	U		0.000590	0.00278	1	10/18/2018 17:47	WG1182742
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	10/18/2018 17:47	WG1182742
2-Hexanone	U		0.0111	0.0278	1	10/18/2018 17:47	WG1182742
n-Hexane	0.00119 J	J	0.00118	0.00556	1	10/18/2018 17:47	WG1182742
Iodomethane	U		0.00673	0.0139	1	10/18/2018 17:47	WG1182742
Isopropylbenzene	U		0.000960	0.00278	1	10/18/2018 17:47	WG1182742
p-Isopropyltoluene	U		0.00259	0.00556	1	10/18/2018 17:47	WG1182742
2-Butanone (MEK)	U		0.0139	0.0278	1	10/18/2018 17:47	WG1182742
Methylene Chloride	U		0.00739	0.0278	1	10/18/2018 17:47	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	10/18/2018 17:47	WG1182742

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000328	0.00111	1	10/18/2018 17:47	WG1182742
Naphthalene	U			0.00347	0.0139	1	10/18/2018 17:47	WG1182742
n-Propylbenzene	U			0.00131	0.00556	1	10/18/2018 17:47	WG1182742
Styrene	U			0.00304	0.0139	1	10/18/2018 17:47	WG1182742
1,1,1,2-Tetrachloroethane	U			0.000556	0.00278	1	10/18/2018 17:47	WG1182742
1,1,2,2-Tetrachloroethane	U			0.000434	0.00278	1	10/18/2018 17:47	WG1182742
1,1,2-Trichlorotrifluoroethane	U			0.000751	0.00278	1	10/18/2018 17:47	WG1182742
Tetrachloroethene	21.7	J	J0	0.0623	0.222	80	10/21/2018 17:15	WG1184188
Toluene	U			0.00139	0.00556	1	10/18/2018 17:47	WG1182742
1,2,3-Trichlorobenzene	U			0.000695	0.00278	1	10/18/2018 17:47	WG1182742
1,2,4-Trichlorobenzene	U			0.00536	0.0139	1	10/18/2018 17:47	WG1182742
1,1,1-Trichloroethane	U			0.000306	0.00278	1	10/18/2018 17:47	WG1182742
1,1,2-Trichloroethane	U	U	J4	0.000982	0.00278	1	10/18/2018 17:47	WG1182742
Trichloroethene	0.0762			0.000445	0.00111	1	10/18/2018 17:47	WG1182742
Trichlorofluoromethane	U			0.000556	0.00278	1	10/18/2018 17:47	WG1182742
1,2,3-Trichloropropane	U			0.00567	0.0139	1	10/18/2018 17:47	WG1182742
1,2,4-Trimethylbenzene	U	UJ	J4	0.00129	0.00556	1	10/18/2018 17:47	WG1182742
1,2,3-Trimethylbenzene	U			0.00128	0.00556	1	10/18/2018 17:47	WG1182742
1,3,5-Trimethylbenzene	U			0.00120	0.00556	1	10/18/2018 17:47	WG1182742
Vinyl acetate	U			0.00392	0.0139	1	10/18/2018 17:47	WG1182742
Vinyl chloride	U			0.000760	0.00278	1	10/18/2018 17:47	WG1182742
Xylenes, Total	U			0.00532	0.00723	1	10/18/2018 17:47	WG1182742
(S) Toluene-d8	*118*				*75.0-131*		*10/18/2018 17:47*	WG1182742
(S) Toluene-d8	*98.7*				*75.0-131*		*10/21/2018 17:15*	WG1184188
(S) Dibromofluoromethane	*79.0*				*65.0-129*		*10/18/2018 17:47*	WG1182742
(S) Dibromofluoromethane	*119*				*65.0-129*		*10/21/2018 17:15*	WG1184188
(S) 4-Bromofluorobenzene	*89.3*				*67.0-138*		*10/18/2018 17:47*	WG1182742
(S) 4-Bromofluorobenzene	*125*				*67.0-138*		*10/21/2018 17:15*	WG1184188

JC 11/16/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	89.0		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.24	2.25	80	10/21/2018 17:35	WG1184188
Acrylonitrile	U		0.00213	0.0140	1	10/18/2018 18:07	WG1182742
Benzene	U		0.000449	0.00112	1	10/18/2018 18:07	WG1182742
Bromobenzene	U		0.00118	0.0140	1	10/18/2018 18:07	WG1182742
Bromodichloromethane	U		0.000885	0.00281	1	10/18/2018 18:07	WG1182742
Bromochloromethane	U		0.00127	0.00562	1	10/18/2018 18:07	WG1182742
Bromoform	U		0.00672	0.0281	1	10/18/2018 18:07	WG1182742
Bromomethane	U		0.00416	0.0140	1	10/18/2018 18:07	WG1182742
n-Butylbenzene	U		0.00431	0.0140	1	10/18/2018 18:07	WG1182742
sec-Butylbenzene	U		0.00284	0.0140	1	10/18/2018 18:07	WG1182742
tert-Butylbenzene	U		0.00174	0.00562	1	10/18/2018 18:07	WG1182742
Carbon disulfide	U		0.00456	0.0140	1	10/18/2018 18:07	WG1182742
Carbon tetrachloride	U		0.00121	0.00562	1	10/18/2018 18:07	WG1182742
Chlorobenzene	U		0.000644	0.00281	1	10/18/2018 18:07	WG1182742
Chlorodibromomethane	U		0.000505	0.00281	1	10/18/2018 18:07	WG1182742
Chloroethane	U		0.00121	0.00562	1	10/18/2018 18:07	WG1182742
Chloroform	0.000708 J	J	0.000466	0.00281	1	10/18/2018 18:07	WG1182742
Chloromethane	U		0.00156	0.0140	1	10/18/2018 18:07	WG1182742
2-Chlorotoluene	U		0.00103	0.00281	1	10/18/2018 18:07	WG1182742
4-Chlorotoluene	U		0.00127	0.00562	1	10/18/2018 18:07	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	10/18/2018 18:07	WG1182742
1,2-Dibromoethane	U		0.000590	0.00281	1	10/18/2018 18:07	WG1182742
Dibromomethane	U U	J4	0.00112	0.00562	1	10/18/2018 18:07	WG1182742
1,2-Dichlorobenzene	U		0.00163	0.00562	1	10/18/2018 18:07	WG1182742
1,3-Dichlorobenzene	U		0.00191	0.00562	1	10/18/2018 18:07	WG1182742
1,4-Dichlorobenzene	U		0.00221	0.00562	1	10/18/2018 18:07	WG1182742
Dichlorodifluoromethane	U		0.000919	0.00281	1	10/18/2018 18:07	WG1182742
1,1-Dichloroethane	U		0.000646	0.00281	1	10/18/2018 18:07	WG1182742
1,2-Dichloroethane	U		0.000534	0.00281	1	10/18/2018 18:07	WG1182742
1,1-Dichloroethene	U		0.000562	0.00281	1	10/18/2018 18:07	WG1182742
cis-1,2-Dichloroethene	0.288		0.000775	0.00281	1	10/18/2018 18:07	WG1182742
trans-1,2-Dichloroethene	0.00285 J	J	0.00161	0.00562	1	10/18/2018 18:07	WG1182742
1,2-Dichloropropane	U		0.00143	0.00562	1	10/18/2018 18:07	WG1182742
1,1-Dichloropropene	U		0.000786	0.00281	1	10/18/2018 18:07	WG1182742
1,3-Dichloropropane	U		0.00197	0.00562	1	10/18/2018 18:07	WG1182742
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	10/18/2018 18:07	WG1182742
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	10/18/2018 18:07	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	10/18/2018 18:07	WG1182742
2,2-Dichloropropane	U		0.000891	0.00281	1	10/18/2018 18:07	WG1182742
Di-isopropyl ether	U		0.000393	0.00112	1	10/18/2018 18:07	WG1182742
Ethylbenzene	U		0.000595	0.00281	1	10/18/2018 18:07	WG1182742
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/18/2018 18:07	WG1182742
2-Hexanone	U		0.0112	0.0281	1	10/18/2018 18:07	WG1182742
n-Hexane	U		0.00119	0.00562	1	10/18/2018 18:07	WG1182742
Iodomethane	U		0.00680	0.0140	1	10/18/2018 18:07	WG1182742
Isopropylbenzene	U		0.000969	0.00281	1	10/18/2018 18:07	WG1182742
p-Isopropyltoluene	U		0.00262	0.00562	1	10/18/2018 18:07	WG1182742
2-Butanone (MEK)	U		0.0140	0.0281	1	10/18/2018 18:07	WG1182742
Methylene Chloride	U		0.00746	0.0281	1	10/18/2018 18:07	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	10/18/2018 18:07	WG1182742

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B-250-13

SAMPLE RESULTS - 09

Collected date/time: 10/15/18 10:30

L1034970

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	10/18/2018 18:07	WG1182742
Naphthalene	U		0.00350	0.0140	1	10/18/2018 18:07	WG1182742
n-Propylbenzene	U		0.00133	0.00562	1	10/18/2018 18:07	WG1182742
Styrene	U		0.00307	0.0140	1	10/18/2018 18:07	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	10/18/2018 18:07	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	10/18/2018 18:07	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	10/18/2018 18:07	WG1182742
Tetrachloroethene	18.2 J	J0	0.0629	0.225	80	10/21/2018 17:35	WG1184188
Toluene	U		0.00140	0.00562	1	10/18/2018 18:07	WG1182742
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	10/18/2018 18:07	WG1182742
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	10/18/2018 18:07	WG1182742
1,1,1-Trichloroethane	U		0.000309	0.00281	1	10/18/2018 18:07	WG1182742
1,1,2-Trichloroethane	U U	J4	0.000992	0.00281	1	10/18/2018 18:07	WG1182742
Trichloroethene	0.553		0.000449	0.00112	1	10/18/2018 18:07	WG1182742
Trichlorofluoromethane	U		0.000562	0.00281	1	10/18/2018 18:07	WG1182742
1,2,3-Trichloropropane	U		0.00573	0.0140	1	10/18/2018 18:07	WG1182742
1,2,4-Trimethylbenzene	U UJ	J4	0.00130	0.00562	1	10/18/2018 18:07	WG1182742
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	10/18/2018 18:07	WG1182742
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	10/18/2018 18:07	WG1182742
Vinyl acetate	U		0.00395	0.0140	1	10/18/2018 18:07	WG1182742
Vinyl chloride	U		0.000767	0.00281	1	10/18/2018 18:07	WG1182742
Xylenes, Total	U		0.00537	0.00730	1	10/18/2018 18:07	WG1182742
(S) Toluene-d8	*118*			*75.0-131*		*10/18/2018 18:07*	WG1182742
(S) Toluene-d8	*98.4*			*75.0-131*		*10/21/2018 17:35*	WG1184188
(S) Dibromofluoromethane	*79.5*			*65.0-129*		*10/18/2018 18:07*	WG1182742
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/21/2018 17:35*	WG1184188
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*10/18/2018 18:07*	WG1182742
(S) 4-Bromofluorobenzene	*127*			*67.0-138*		*10/21/2018 17:35*	WG1184188

JC 11/16/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.3		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.635	1.16	40	10/21/2018 17:55	WG1184188
Acrylonitrile	U		0.00220	0.0145	1	10/18/2018 18:27	WG1182742
Benzene	U		0.000463	0.00116	1	10/18/2018 18:27	WG1182742
Bromobenzene	U		0.00122	0.0145	1	10/18/2018 18:27	WG1182742
Bromodichloromethane	U		0.000913	0.00290	1	10/18/2018 18:27	WG1182742
Bromochloromethane	U		0.00131	0.00579	1	10/18/2018 18:27	WG1182742
Bromoform	U		0.00693	0.0290	1	10/18/2018 18:27	WG1182742
Bromomethane	U		0.00429	0.0145	1	10/18/2018 18:27	WG1182742
n-Butylbenzene	U		0.00445	0.0145	1	10/18/2018 18:27	WG1182742
sec-Butylbenzene	U		0.00293	0.0145	1	10/18/2018 18:27	WG1182742
tert-Butylbenzene	U		0.00180	0.00579	1	10/18/2018 18:27	WG1182742
Carbon disulfide	U		0.00470	0.0145	1	10/18/2018 18:27	WG1182742
Carbon tetrachloride	U		0.00125	0.00579	1	10/18/2018 18:27	WG1182742
Chlorobenzene	U		0.000664	0.00290	1	10/18/2018 18:27	WG1182742
Chlorodibromomethane	U		0.000521	0.00290	1	10/18/2018 18:27	WG1182742
Chloroethane	U		0.00125	0.00579	1	10/18/2018 18:27	WG1182742
Chloroform	0.000752	J J	0.000481	0.00290	1	10/18/2018 18:27	WG1182742
Chloromethane	U		0.00161	0.0145	1	10/18/2018 18:27	WG1182742
2-Chlorotoluene	U		0.00107	0.00290	1	10/18/2018 18:27	WG1182742
4-Chlorotoluene	U		0.00131	0.00579	1	10/18/2018 18:27	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0290	1	10/18/2018 18:27	WG1182742
1,2-Dibromoethane	U		0.000608	0.00290	1	10/18/2018 18:27	WG1182742
Dibromomethane	U	U J4	0.00116	0.00579	1	10/18/2018 18:27	WG1182742
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/18/2018 18:27	WG1182742
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/18/2018 18:27	WG1182742
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/18/2018 18:27	WG1182742
Dichlorodifluoromethane	U		0.000947	0.00290	1	10/18/2018 18:27	WG1182742
1,1-Dichloroethane	U		0.000666	0.00290	1	10/18/2018 18:27	WG1182742
1,2-Dichloroethane	U		0.000550	0.00290	1	10/18/2018 18:27	WG1182742
1,1-Dichloroethene	0.00138	J J	0.000579	0.00290	1	10/18/2018 18:27	WG1182742
cis-1,2-Dichloroethene	0.833		0.000799	0.00290	1	10/18/2018 18:27	WG1182742
trans-1,2-Dichloroethene	0.00435	J J	0.00166	0.00579	1	10/18/2018 18:27	WG1182742
1,2-Dichloropropane	U		0.00147	0.00579	1	10/18/2018 18:27	WG1182742
1,1-Dichloropropene	U		0.000811	0.00290	1	10/18/2018 18:27	WG1182742
1,3-Dichloropropane	U		0.00203	0.00579	1	10/18/2018 18:27	WG1182742
cis-1,3-Dichloropropene	U		0.000785	0.00290	1	10/18/2018 18:27	WG1182742
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	10/18/2018 18:27	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/18/2018 18:27	WG1182742
2,2-Dichloropropane	U		0.000919	0.00290	1	10/18/2018 18:27	WG1182742
Di-isopropyl ether	U		0.000405	0.00116	1	10/18/2018 18:27	WG1182742
Ethylbenzene	U		0.000614	0.00290	1	10/18/2018 18:27	WG1182742
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/18/2018 18:27	WG1182742
2-Hexanone	U		0.0116	0.0290	1	10/18/2018 18:27	WG1182742
n-Hexane	0.00134	J J	0.00123	0.00579	1	10/18/2018 18:27	WG1182742
Iodomethane	U		0.00701	0.0145	1	10/18/2018 18:27	WG1182742
Isopropylbenzene	U		0.00100	0.00290	1	10/18/2018 18:27	WG1182742
p-Isopropyltoluene	U		0.00270	0.00579	1	10/18/2018 18:27	WG1182742
2-Butanone (MEK)	U		0.0145	0.0290	1	10/18/2018 18:27	WG1182742
Methylene Chloride	U		0.00769	0.0290	1	10/18/2018 18:27	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/18/2018 18:27	WG1182742

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B-250-20

Collected date/time: 10/15/18 10:40

SAMPLE RESULTS - 10

L1034970

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	10/18/2018 18:27	WG1182742
Naphthalene	U		0.00361	0.0145	1	10/18/2018 18:27	WG1182742
n-Propylbenzene	U		0.00137	0.00579	1	10/18/2018 18:27	WG1182742
Styrene	U		0.00316	0.0145	1	10/18/2018 18:27	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	10/18/2018 18:27	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	10/18/2018 18:27	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	10/18/2018 18:27	WG1182742
Tetrachloroethene	8.68 J	J0	0.0324	0.116	40	10/21/2018 17:55	WG1184188
Toluene	U		0.00145	0.00579	1	10/18/2018 18:27	WG1182742
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	10/18/2018 18:27	WG1182742
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	10/18/2018 18:27	WG1182742
1,1,1-Trichloroethane	U		0.000319	0.00290	1	10/18/2018 18:27	WG1182742
1,1,2-Trichloroethane	U U	J4	0.00102	0.00290	1	10/18/2018 18:27	WG1182742
Trichloroethene	0.528		0.000463	0.00116	1	10/18/2018 18:27	WG1182742
Trichlorofluoromethane	U		0.000579	0.00290	1	10/18/2018 18:27	WG1182742
1,2,3-Trichloropropane	U		0.00591	0.0145	1	10/18/2018 18:27	WG1182742
1,2,4-Trimethylbenzene	U UJ	J4	0.00134	0.00579	1	10/18/2018 18:27	WG1182742
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	10/18/2018 18:27	WG1182742
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	10/18/2018 18:27	WG1182742
Vinyl acetate	U		0.00408	0.0145	1	10/18/2018 18:27	WG1182742
Vinyl chloride	0.00304		0.000791	0.00290	1	10/18/2018 18:27	WG1182742
Xylenes, Total	U		0.00554	0.00753	1	10/18/2018 18:27	WG1182742
(S) Toluene-d8	*117*			*75.0-131*		*10/18/2018 18:27*	WG1182742
(S) Toluene-d8	*100*			*75.0-131*		*10/21/2018 17:55*	WG1184188
(S) Dibromofluoromethane	*77.8*			*65.0-129*		*10/18/2018 18:27*	WG1182742
(S) Dibromofluoromethane	*118*			*65.0-129*		*10/21/2018 17:55*	WG1184188
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/18/2018 18:27*	WG1182742
(S) 4-Bromofluorobenzene	*125*			*67.0-138*		*10/21/2018 17:55*	WG1184188

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.4		1	10/16/2018 14:25	WG1181703

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		10.0	18.3	670	10/17/2018 13:32	WG1182096
Acrylonitrile	U		0.00208	0.0137	1	10/16/2018 19:21	WG1181654
Benzene	U		0.000438	0.00109	1	10/16/2018 19:21	WG1181654
Bromobenzene	U		0.00115	0.0137	1	10/16/2018 19:21	WG1181654
Bromodichloromethane	U		0.000862	0.00273	1	10/16/2018 19:21	WG1181654
Bromochloromethane	U		0.00124	0.00547	1	10/16/2018 19:21	WG1181654
Bromoform	U		0.00654	0.0273	1	10/16/2018 19:21	WG1181654
Bromomethane	U		0.00405	0.0137	1	10/16/2018 19:21	WG1181654
n-Butylbenzene	U		0.00420	0.0137	1	10/16/2018 19:21	WG1181654
sec-Butylbenzene	U		0.00277	0.0137	1	10/16/2018 19:21	WG1181654
tert-Butylbenzene	U		0.00170	0.00547	1	10/16/2018 19:21	WG1181654
Carbon disulfide	U		0.00444	0.0137	1	10/16/2018 19:21	WG1181654
Carbon tetrachloride	U		0.00118	0.00547	1	10/16/2018 19:21	WG1181654
Chlorobenzene	U		0.000627	0.00273	1	10/16/2018 19:21	WG1181654
Chlorodibromomethane	U		0.000492	0.00273	1	10/16/2018 19:21	WG1181654
Chloroethane	U		0.00118	0.00547	1	10/16/2018 19:21	WG1181654
Chloroform	0.000592 U	B J	0.000454	0.00273	1	10/16/2018 19:21	WG1181654
Chloromethane	U		0.00152	0.0137	1	10/16/2018 19:21	WG1181654
2-Chlorotoluene	U		0.00101	0.00273	1	10/16/2018 19:21	WG1181654
4-Chlorotoluene	U		0.00124	0.00547	1	10/16/2018 19:21	WG1181654
1,2-Dibromo-3-Chloropropane	U		0.00558	0.0273	1	10/16/2018 19:21	WG1181654
1,2-Dibromoethane	U		0.000574	0.00273	1	10/16/2018 19:21	WG1181654
Dibromomethane	U U	J4	0.00109	0.00547	1	10/16/2018 19:21	WG1181654
1,2-Dichlorobenzene	U		0.00159	0.00547	1	10/16/2018 19:21	WG1181654
1,3-Dichlorobenzene	U		0.00186	0.00547	1	10/16/2018 19:21	WG1181654
1,4-Dichlorobenzene	U		0.00215	0.00547	1	10/16/2018 19:21	WG1181654
Dichlorodifluoromethane	U		0.000895	0.00273	1	10/16/2018 19:21	WG1181654
1,1-Dichloroethane	U		0.000629	0.00273	1	10/16/2018 19:21	WG1181654
1,2-Dichloroethane	U		0.000520	0.00273	1	10/16/2018 19:21	WG1181654
1,1-Dichloroethene	0.00105 J	J	0.000547	0.00273	1	10/16/2018 19:21	WG1181654
cis-1,2-Dichloroethene	0.614		0.000755	0.00273	1	10/16/2018 19:21	WG1181654
trans-1,2-Dichloroethene	0.00344 J	J	0.00156	0.00547	1	10/16/2018 19:21	WG1181654
1,2-Dichloropropane	U		0.00139	0.00547	1	10/16/2018 19:21	WG1181654
1,1-Dichloropropene	U		0.000766	0.00273	1	10/16/2018 19:21	WG1181654
1,3-Dichloropropane	U		0.00191	0.00547	1	10/16/2018 19:21	WG1181654
cis-1,3-Dichloropropene	U		0.000742	0.00273	1	10/16/2018 19:21	WG1181654
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	10/16/2018 19:21	WG1181654
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	10/16/2018 19:21	WG1181654
2,2-Dichloropropane	U		0.000867	0.00273	1	10/16/2018 19:21	WG1181654
Di-isopropyl ether	U		0.000383	0.00109	1	10/16/2018 19:21	WG1181654
Ethylbenzene	U		0.000580	0.00273	1	10/16/2018 19:21	WG1181654
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	10/16/2018 19:21	WG1181654
2-Hexanone	U		0.0109	0.0273	1	10/16/2018 19:21	WG1181654
n-Hexane	U		0.00116	0.00547	1	10/16/2018 19:21	WG1181654
Iodomethane	U		0.00662	0.0137	1	10/16/2018 19:21	WG1181654
Isopropylbenzene	U		0.000944	0.00273	1	10/16/2018 19:21	WG1181654
p-Isopropyltoluene	U		0.00255	0.00547	1	10/16/2018 19:21	WG1181654
2-Butanone (MEK)	U		0.0137	0.0273	1	10/16/2018 19:21	WG1181654
Methylene Chloride	U		0.00726	0.0273	1	10/16/2018 19:21	WG1181654
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/16/2018 19:21	WG1181654

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000323	0.00109	1	10/16/2018 19:21	WG1181654
Naphthalene	U		0.00341	0.0137	1	10/16/2018 19:21	WG1181654
n-Propylbenzene	U		0.00129	0.00547	1	10/16/2018 19:21	WG1181654
Styrene	U		0.00299	0.0137	1	10/16/2018 19:21	WG1181654
1,1,1,2-Tetrachloroethane	U		0.000547	0.00273	1	10/16/2018 19:21	WG1181654
1,1,2,2-Tetrachloroethane	U U	J4	0.000427	0.00273	1	10/16/2018 19:21	WG1181654
1,1,2-Trichlorotrifluoroethane	U		0.000738	0.00273	1	10/16/2018 19:21	WG1181654
Tetrachloroethene	7.69		0.513	1.83	670	10/17/2018 13:32	WG1182096
Toluene	U		0.00137	0.00547	1	10/16/2018 19:21	WG1181654
1,2,3-Trichlorobenzene	U		0.000684	0.00273	1	10/16/2018 19:21	WG1181654
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	10/16/2018 19:21	WG1181654
1,1,1-Trichloroethane	U		0.000301	0.00273	1	10/16/2018 19:21	WG1181654
1,1,2-Trichloroethane	U U	J4	0.000966	0.00273	1	10/16/2018 19:21	WG1181654
Trichloroethene	0.407		0.000438	0.00109	1	10/16/2018 19:21	WG1181654
Trichlorofluoromethane	U		0.000547	0.00273	1	10/16/2018 19:21	WG1181654
1,2,3-Trichloropropane	U		0.00558	0.0137	1	10/16/2018 19:21	WG1181654
1,2,4-Trimethylbenzene	0.00130 J	J	0.00127	0.00547	1	10/16/2018 19:21	WG1181654
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	10/16/2018 19:21	WG1181654
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	10/16/2018 19:21	WG1181654
Vinyl acetate	U		0.00385	0.0137	1	10/16/2018 19:21	WG1181654
Vinyl chloride	0.00318		0.000747	0.00273	1	10/16/2018 19:21	WG1181654
Xylenes, Total	U		0.00523	0.00711	1	10/16/2018 19:21	WG1181654
(S) Toluene-d8	*118*			*75.0-131*		*10/16/2018 19:21*	WG1181654
(S) Toluene-d8	*101*			*75.0-131*		*10/17/2018 13:32*	WG1182096
(S) Dibromofluoromethane	*77.0*			*65.0-129*		*10/16/2018 19:21*	WG1181654
(S) Dibromofluoromethane	*120*			*65.0-129*		*10/17/2018 13:32*	WG1182096
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/16/2018 19:21*	WG1181654
(S) 4-Bromofluorobenzene	*117*			*67.0-138*		*10/17/2018 13:32*	WG1182096

JC 11/16/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0144	0.0263	1	10/21/2018 14:55	WG1184188
Acrylonitrile	U U	J3	0.00200	0.0131	1	10/18/2018 18:47	WG1182742
Benzene	U		0.000420	0.00105	1	10/18/2018 18:47	WG1182742
Bromobenzene	U		0.00110	0.0131	1	10/18/2018 18:47	WG1182742
Bromodichloromethane	U		0.000828	0.00263	1	10/18/2018 18:47	WG1182742
Bromochloromethane	U		0.00119	0.00525	1	10/18/2018 18:47	WG1182742
Bromoform	U		0.00628	0.0263	1	10/18/2018 18:47	WG1182742
Bromomethane	U		0.00389	0.0131	1	10/18/2018 18:47	WG1182742
n-Butylbenzene	U		0.00403	0.0131	1	10/18/2018 18:47	WG1182742
sec-Butylbenzene	U		0.00266	0.0131	1	10/18/2018 18:47	WG1182742
tert-Butylbenzene	U		0.00163	0.00525	1	10/18/2018 18:47	WG1182742
Carbon disulfide	U		0.00427	0.0131	1	10/18/2018 18:47	WG1182742
Carbon tetrachloride	U		0.00113	0.00525	1	10/18/2018 18:47	WG1182742
Chlorobenzene	U		0.000602	0.00263	1	10/18/2018 18:47	WG1182742
Chlorodibromomethane	U		0.000473	0.00263	1	10/18/2018 18:47	WG1182742
Chloroethane	U		0.00113	0.00525	1	10/18/2018 18:47	WG1182742
Chloroform	0.000670 J	J	0.000436	0.00263	1	10/18/2018 18:47	WG1182742
Chloromethane	U		0.00146	0.0131	1	10/18/2018 18:47	WG1182742
2-Chlorotoluene	U		0.000967	0.00263	1	10/18/2018 18:47	WG1182742
4-Chlorotoluene	U		0.00119	0.00525	1	10/18/2018 18:47	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00536	0.0263	1	10/18/2018 18:47	WG1182742
1,2-Dibromoethane	U		0.000552	0.00263	1	10/18/2018 18:47	WG1182742
Dibromomethane	U U	J4	0.00105	0.00525	1	10/18/2018 18:47	WG1182742
1,2-Dichlorobenzene	U		0.00152	0.00525	1	10/18/2018 18:47	WG1182742
1,3-Dichlorobenzene	U		0.00179	0.00525	1	10/18/2018 18:47	WG1182742
1,4-Dichlorobenzene	U		0.00207	0.00525	1	10/18/2018 18:47	WG1182742
Dichlorodifluoromethane	U		0.000859	0.00263	1	10/18/2018 18:47	WG1182742
1,1-Dichloroethane	U		0.000604	0.00263	1	10/18/2018 18:47	WG1182742
1,2-Dichloroethane	U		0.000499	0.00263	1	10/18/2018 18:47	WG1182742
1,1-Dichloroethene	U		0.000525	0.00263	1	10/18/2018 18:47	WG1182742
cis-1,2-Dichloroethene	0.0153		0.000725	0.00263	1	10/21/2018 14:55	WG1184188
trans-1,2-Dichloroethene	U		0.00150	0.00525	1	10/18/2018 18:47	WG1182742
1,2-Dichloropropane	U		0.00133	0.00525	1	10/18/2018 18:47	WG1182742
1,1-Dichloropropene	U		0.000735	0.00263	1	10/18/2018 18:47	WG1182742
1,3-Dichloropropane	U		0.00184	0.00525	1	10/18/2018 18:47	WG1182742
cis-1,3-Dichloropropene	U		0.000712	0.00263	1	10/18/2018 18:47	WG1182742
trans-1,3-Dichloropropene	U		0.00161	0.00525	1	10/18/2018 18:47	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00147	0.00525	1	10/18/2018 18:47	WG1182742
2,2-Dichloropropane	U		0.000833	0.00263	1	10/18/2018 18:47	WG1182742
Di-isopropyl ether	U		0.000368	0.00105	1	10/18/2018 18:47	WG1182742 JC 11/16/18
Ethylbenzene	U		0.000557	0.00263	1	10/18/2018 18:47	WG1182742
Hexachloro-1,3-butadiene	U		0.0133	0.0263	1	10/18/2018 18:47	WG1182742
2-Hexanone	U		0.0105	0.0263	1	10/18/2018 18:47	WG1182742
n-Hexane	U		0.00111	0.00525	1	10/18/2018 18:47	WG1182742
Iodomethane	U		0.00636	0.0131	1	10/18/2018 18:47	WG1182742
Isopropylbenzene	U		0.000907	0.00263	1	10/18/2018 18:47	WG1182742
p-Isopropyltoluene	U		0.00245	0.00525	1	10/18/2018 18:47	WG1182742
2-Butanone (MEK)	U		0.0131	0.0263	1	10/18/2018 18:47	WG1182742
Methylene Chloride	U		0.00698	0.0263	1	10/18/2018 18:47	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0263	1	10/18/2018 18:47	WG1182742

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000310	0.00105	1	10/18/2018 18:47	WG1182742
Naphthalene	U			0.00328	0.0131	1	10/18/2018 18:47	WG1182742
n-Propylbenzene	U			0.00124	0.00525	1	10/18/2018 18:47	WG1182742
Styrene	U			0.00287	0.0131	1	10/18/2018 18:47	WG1182742
1,1,1,2-Tetrachloroethane	U			0.000525	0.00263	1	10/18/2018 18:47	WG1182742
1,1,2,2-Tetrachloroethane	U			0.000410	0.00263	1	10/18/2018 18:47	WG1182742
1,1,2-Trichlorotrifluoroethane	U			0.000709	0.00263	1	10/18/2018 18:47	WG1182742
Tetrachloroethene	0.0286			0.000735	0.00263	1	10/21/2018 14:55	WG1184188
Toluene	U			0.00131	0.00525	1	10/18/2018 18:47	WG1182742
1,2,3-Trichlorobenzene	U			0.000657	0.00263	1	10/18/2018 18:47	WG1182742
1,2,4-Trichlorobenzene	U			0.00506	0.0131	1	10/18/2018 18:47	WG1182742
1,1,1-Trichloroethane	U			0.000289	0.00263	1	10/18/2018 18:47	WG1182742
1,1,2-Trichloroethane	U	U	J4	0.000928	0.00263	1	10/18/2018 18:47	WG1182742
Trichloroethene	0.146			0.000420	0.00105	1	10/22/2018 11:39	WG1184438
Trichlorofluoromethane	U			0.000525	0.00263	1	10/18/2018 18:47	WG1182742
1,2,3-Trichloropropane	U			0.00536	0.0131	1	10/18/2018 18:47	WG1182742
1,2,4-Trimethylbenzene	U	UJ	J4	0.00122	0.00525	1	10/18/2018 18:47	WG1182742
1,2,3-Trimethylbenzene	U			0.00121	0.00525	1	10/18/2018 18:47	WG1182742
1,3,5-Trimethylbenzene	U			0.00113	0.00525	1	10/18/2018 18:47	WG1182742
Vinyl acetate	U	U	J3	0.00370	0.0131	1	10/18/2018 18:47	WG1182742
Vinyl chloride	U	R	J6	0.000718	0.00263	1	10/18/2018 18:47	WG1182742
Xylenes, Total	U			0.00502	0.00683	1	10/18/2018 18:47	WG1182742
(S) Toluene-d8	*118*				*75.0-131*		*10/18/2018 18:47*	WG1182742
(S) Toluene-d8	*100*				*75.0-131*		*10/21/2018 14:55*	WG1184188
(S) Toluene-d8	*113*				*75.0-131*		*10/22/2018 11:39*	WG1184438
(S) Dibromofluoromethane	*76.0*				*65.0-129*		*10/18/2018 18:47*	WG1182742
(S) Dibromofluoromethane	*112*				*65.0-129*		*10/21/2018 14:55*	WG1184188
(S) Dibromofluoromethane	*87.3*				*65.0-129*		*10/22/2018 11:39*	WG1184438
(S) 4-Bromofluorobenzene	*88.8*				*67.0-138*		*10/18/2018 18:47*	WG1182742
(S) 4-Bromofluorobenzene	*118*				*67.0-138*		*10/21/2018 14:55*	WG1184188
(S) 4-Bromofluorobenzene	*88.0*				*67.0-138*		*10/22/2018 11:39*	WG1184438

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.2		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0152	0.0277	1	10/19/2018 21:50	WG1183157
Acrylonitrile	U		0.00211	0.0139	1	10/19/2018 21:50	WG1183157
Benzene	U		0.000444	0.00111	1	10/19/2018 21:50	WG1183157
Bromobenzene	U		0.00116	0.0139	1	10/19/2018 21:50	WG1183157
Bromodichloromethane	U		0.000874	0.00277	1	10/19/2018 21:50	WG1183157
Bromochloromethane	U		0.00125	0.00555	1	10/19/2018 21:50	WG1183157
Bromoform	U UJ	J0	0.00663	0.0277	1	10/19/2018 21:50	WG1183157
Bromomethane	U		0.00410	0.0139	1	10/19/2018 21:50	WG1183157
n-Butylbenzene	U		0.00426	0.0139	1	10/19/2018 21:50	WG1183157
sec-Butylbenzene	U		0.00281	0.0139	1	10/19/2018 21:50	WG1183157
tert-Butylbenzene	U		0.00172	0.00555	1	10/19/2018 21:50	WG1183157
Carbon disulfide	U UJ	J0	0.00450	0.0139	1	10/19/2018 21:50	WG1183157
Carbon tetrachloride	U		0.00120	0.00555	1	10/19/2018 21:50	WG1183157
Chlorobenzene	U		0.000636	0.00277	1	10/19/2018 21:50	WG1183157
Chlorodibromomethane	U		0.000499	0.00277	1	10/19/2018 21:50	WG1183157
Chloroethane	U		0.00120	0.00555	1	10/19/2018 21:50	WG1183157
Chloroform	0.000707 U	B J	0.000460	0.00277	1	10/19/2018 21:50	WG1183157
Chloromethane	U		0.00154	0.0139	1	10/19/2018 21:50	WG1183157
2-Chlorotoluene	U		0.00102	0.00277	1	10/19/2018 21:50	WG1183157
4-Chlorotoluene	U		0.00125	0.00555	1	10/19/2018 21:50	WG1183157
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00566	0.0277	1	10/19/2018 21:50	WG1183157
1,2-Dibromoethane	U		0.000582	0.00277	1	10/19/2018 21:50	WG1183157
Dibromomethane	U		0.00111	0.00555	1	10/19/2018 21:50	WG1183157
1,2-Dichlorobenzene	U		0.00161	0.00555	1	10/19/2018 21:50	WG1183157
1,3-Dichlorobenzene	U		0.00189	0.00555	1	10/19/2018 21:50	WG1183157
1,4-Dichlorobenzene	U		0.00219	0.00555	1	10/19/2018 21:50	WG1183157
Dichlorodifluoromethane	U		0.000907	0.00277	1	10/19/2018 21:50	WG1183157
1,1-Dichloroethane	U		0.000638	0.00277	1	10/19/2018 21:50	WG1183157
1,2-Dichloroethane	U		0.000527	0.00277	1	10/19/2018 21:50	WG1183157
1,1-Dichloroethene	U		0.000555	0.00277	1	10/19/2018 21:50	WG1183157 JC 11/16/18
cis-1,2-Dichloroethene	0.0879		0.000765	0.00277	1	10/19/2018 21:50	WG1183157
trans-1,2-Dichloroethene	U		0.00159	0.00555	1	10/19/2018 21:50	WG1183157
1,2-Dichloropropane	U		0.00141	0.00555	1	10/22/2018 16:23	WG1184604
1,1-Dichloropropene	U		0.000776	0.00277	1	10/19/2018 21:50	WG1183157
1,3-Dichloropropane	U		0.00194	0.00555	1	10/19/2018 21:50	WG1183157
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	10/19/2018 21:50	WG1183157
trans-1,3-Dichloropropene	U		0.00170	0.00555	1	10/19/2018 21:50	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00155	0.00555	1	10/19/2018 21:50	WG1183157
2,2-Dichloropropane	U		0.000880	0.00277	1	10/19/2018 21:50	WG1183157
Di-isopropyl ether	U		0.000388	0.00111	1	10/19/2018 21:50	WG1183157
Ethylbenzene	U		0.000588	0.00277	1	10/19/2018 21:50	WG1183157
Hexachloro-1,3-butadiene	U UJ	J0	0.0141	0.0277	1	10/19/2018 21:50	WG1183157
2-Hexanone	U		0.0111	0.0277	1	10/19/2018 21:50	WG1183157
n-Hexane	U		0.00118	0.00555	1	10/19/2018 21:50	WG1183157
Iodomethane	U		0.00671	0.0139	1	10/19/2018 21:50	WG1183157
Isopropylbenzene	U		0.000957	0.00277	1	10/19/2018 21:50	WG1183157
p-Isopropyltoluene	U		0.00258	0.00555	1	10/19/2018 21:50	WG1183157
2-Butanone (MEK)	0.0603 J	J0	0.0139	0.0277	1	10/22/2018 16:23	WG1184604
Methylene Chloride	U		0.00737	0.0277	1	10/19/2018 21:50	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	10/19/2018 21:50	WG1183157

B-251-8

Collected date/time: 10/15/18 12:45

SAMPLE RESULTS - 13

L1034970

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	10/19/2018 21:50	WG1183157
Naphthalene	U		0.00346	0.0139	1	10/19/2018 21:50	WG1183157
n-Propylbenzene	U		0.00131	0.00555	1	10/19/2018 21:50	WG1183157
Styrene	U	UJ J0	0.00303	0.0139	1	10/19/2018 21:50	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000555	0.00277	1	10/19/2018 21:50	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000433	0.00277	1	10/19/2018 21:50	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000749	0.00277	1	10/19/2018 21:50	WG1183157
Tetrachloroethene	0.230		0.000776	0.00277	1	10/19/2018 21:50	WG1183157
Toluene	U		0.00139	0.00555	1	10/19/2018 21:50	WG1183157
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	10/19/2018 21:50	WG1183157
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	10/19/2018 21:50	WG1183157
1,1,1-Trichloroethane	U		0.000305	0.00277	1	10/19/2018 21:50	WG1183157
1,1,2-Trichloroethane	0.00157	J J	0.000979	0.00277	1	10/22/2018 16:23	WG1184604
Trichloroethene	0.135		0.000444	0.00111	1	10/19/2018 21:50	WG1183157
Trichlorofluoromethane	U		0.000555	0.00277	1	10/19/2018 21:50	WG1183157
1,2,3-Trichloropropane	U		0.00566	0.0139	1	10/19/2018 21:50	WG1183157
1,2,4-Trimethylbenzene	U		0.00129	0.00555	1	10/19/2018 21:50	WG1183157
1,2,3-Trimethylbenzene	U		0.00128	0.00555	1	10/19/2018 21:50	WG1183157
1,3,5-Trimethylbenzene	U		0.00120	0.00555	1	10/19/2018 21:50	WG1183157
Vinyl acetate	U		0.00390	0.0139	1	10/19/2018 21:50	WG1183157
Vinyl chloride	U		0.000758	0.00277	1	10/19/2018 21:50	WG1183157
Xylenes, Total	U		0.00530	0.00721	1	10/19/2018 21:50	WG1183157
(S) Toluene-d8	*127*			*75.0-131*		*10/19/2018 21:50*	WG1183157
(S) Toluene-d8	*97.8*			*75.0-131*		*10/22/2018 16:23*	WG1184604
(S) Dibromofluoromethane	*96.3*			*65.0-129*		*10/19/2018 21:50*	WG1183157
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/22/2018 16:23*	WG1184604
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*		*10/19/2018 21:50*	WG1183157
(S) 4-Bromofluorobenzene	*117*			*67.0-138*		*10/22/2018 16:23*	WG1184604

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.9		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0152	0.0278	1	10/19/2018 22:11	WG1183157
Acrylonitrile	U		0.00211	0.0139	1	10/19/2018 22:11	WG1183157
Benzene	U		0.000445	0.00111	1	10/19/2018 22:11	WG1183157
Bromobenzene	U		0.00117	0.0139	1	10/19/2018 22:11	WG1183157
Bromodichloromethane	U		0.000877	0.00278	1	10/19/2018 22:11	WG1183157
Bromochloromethane	U		0.00126	0.00556	1	10/19/2018 22:11	WG1183157
Bromoform	U UJ	J0	0.00665	0.0278	1	10/19/2018 22:11	WG1183157
Bromomethane	U		0.00412	0.0139	1	10/19/2018 22:11	WG1183157
n-Butylbenzene	U		0.00427	0.0139	1	10/19/2018 22:11	WG1183157
sec-Butylbenzene	U		0.00281	0.0139	1	10/19/2018 22:11	WG1183157
tert-Butylbenzene	U		0.00172	0.00556	1	10/19/2018 22:11	WG1183157
Carbon disulfide	U UJ	J0	0.00452	0.0139	1	10/19/2018 22:11	WG1183157
Carbon tetrachloride	U		0.00120	0.00556	1	10/19/2018 22:11	WG1183157
Chlorobenzene	U		0.000637	0.00278	1	10/19/2018 22:11	WG1183157
Chlorodibromomethane	U		0.000501	0.00278	1	10/19/2018 22:11	WG1183157
Chloroethane	U		0.00120	0.00556	1	10/19/2018 22:11	WG1183157
Chloroform	0.000940 U	B J	0.000462	0.00278	1	10/19/2018 22:11	WG1183157
Chloromethane	U		0.00155	0.0139	1	10/19/2018 22:11	WG1183157
2-Chlorotoluene	U		0.00102	0.00278	1	10/19/2018 22:11	WG1183157
4-Chlorotoluene	U		0.00126	0.00556	1	10/19/2018 22:11	WG1183157
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00567	0.0278	1	10/19/2018 22:11	WG1183157
1,2-Dibromoethane	U		0.000584	0.00278	1	10/19/2018 22:11	WG1183157
Dibromomethane	U		0.00111	0.00556	1	10/19/2018 22:11	WG1183157
1,2-Dichlorobenzene	U		0.00161	0.00556	1	10/19/2018 22:11	WG1183157
1,3-Dichlorobenzene	U		0.00189	0.00556	1	10/19/2018 22:11	WG1183157
1,4-Dichlorobenzene	U		0.00219	0.00556	1	10/19/2018 22:11	WG1183157
Dichlorodifluoromethane	U		0.000910	0.00278	1	10/19/2018 22:11	WG1183157
1,1-Dichloroethane	U		0.000640	0.00278	1	10/19/2018 22:11	WG1183157
1,2-Dichloroethane	U		0.000528	0.00278	1	10/19/2018 22:11	WG1183157
1,1-Dichloroethene	U		0.000556	0.00278	1	10/19/2018 22:11	WG1183157
cis-1,2-Dichloroethene	0.0191		0.000768	0.00278	1	10/19/2018 22:11	WG1183157
trans-1,2-Dichloroethene	U		0.00159	0.00556	1	10/19/2018 22:11	WG1183157
1,2-Dichloropropane	U		0.0565	0.222	40	10/22/2018 20:23	WG1184604
1,1-Dichloropropene	U		0.000779	0.00278	1	10/19/2018 22:11	WG1183157
1,3-Dichloropropane	U		0.00195	0.00556	1	10/19/2018 22:11	WG1183157
cis-1,3-Dichloropropene	U		0.000754	0.00278	1	10/19/2018 22:11	WG1183157
trans-1,3-Dichloropropene	U		0.00170	0.00556	1	10/19/2018 22:11	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00156	0.00556	1	10/19/2018 22:11	WG1183157
2,2-Dichloropropane	U		0.000882	0.00278	1	10/19/2018 22:11	WG1183157
Di-isopropyl ether	U		0.000389	0.00111	1	10/19/2018 22:11	WG1183157
Ethylbenzene	U		0.000590	0.00278	1	10/19/2018 22:11	WG1183157
Hexachloro-1,3-butadiene	U UJ	J0	0.0141	0.0278	1	10/19/2018 22:11	WG1183157
2-Hexanone	U		0.0111	0.0278	1	10/19/2018 22:11	WG1183157
n-Hexane	U		0.00118	0.00556	1	10/19/2018 22:11	WG1183157
Iodomethane	U		0.00673	0.0139	1	10/19/2018 22:11	WG1183157
Isopropylbenzene	U		0.000960	0.00278	1	10/19/2018 22:11	WG1183157
p-Isopropyltoluene	U		0.00259	0.00556	1	10/19/2018 22:11	WG1183157
2-Butanone (MEK)	U UJ	J0	0.556	1.11	40	10/22/2018 20:23	WG1184604
Methylene Chloride	U		0.00739	0.0278	1	10/19/2018 22:11	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	10/19/2018 22:11	WG1183157

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000328	0.00111	1	10/19/2018 22:11	WG1183157
Naphthalene	U		0.00347	0.0139	1	10/19/2018 22:11	WG1183157
n-Propylbenzene	U		0.00131	0.00556	1	10/19/2018 22:11	WG1183157
Styrene	U UJ	J0	0.00304	0.0139	1	10/19/2018 22:11	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000556	0.00278	1	10/19/2018 22:11	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	10/19/2018 22:11	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000751	0.00278	1	10/19/2018 22:11	WG1183157
Tetrachloroethene	10.3		0.0311	0.111	40	10/22/2018 20:23	WG1184604
Toluene	U		0.00139	0.00556	1	10/19/2018 22:11	WG1183157
1,2,3-Trichlorobenzene	U		0.000695	0.00278	1	10/19/2018 22:11	WG1183157
1,2,4-Trichlorobenzene	U		0.00536	0.0139	1	10/19/2018 22:11	WG1183157
1,1,1-Trichloroethane	U		0.000306	0.00278	1	10/19/2018 22:11	WG1183157
1,1,2-Trichloroethane	U		0.0393	0.111	40	10/22/2018 20:23	WG1184604
Trichloroethene	0.0501		0.000445	0.00111	1	10/19/2018 22:11	WG1183157
Trichlorofluoromethane	U		0.000556	0.00278	1	10/19/2018 22:11	WG1183157
1,2,3-Trichloropropane	U		0.00567	0.0139	1	10/19/2018 22:11	WG1183157
1,2,4-Trimethylbenzene	U		0.00129	0.00556	1	10/19/2018 22:11	WG1183157
1,2,3-Trimethylbenzene	U		0.00128	0.00556	1	10/19/2018 22:11	WG1183157
1,3,5-Trimethylbenzene	U		0.00120	0.00556	1	10/19/2018 22:11	WG1183157
Vinyl acetate	U		0.00392	0.0139	1	10/19/2018 22:11	WG1183157
Vinyl chloride	U		0.000760	0.00278	1	10/19/2018 22:11	WG1183157
Xylenes, Total	U		0.00532	0.00723	1	10/19/2018 22:11	WG1183157
(S) Toluene-d8	*123*			*75.0-131*		*10/19/2018 22:11*	WG1183157
(S) Toluene-d8	*98.0*			*75.0-131*		*10/22/2018 20:23*	WG1184604
(S) Dibromofluoromethane	*94.8*			*65.0-129*		*10/19/2018 22:11*	WG1183157
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/22/2018 20:23*	WG1184604
(S) 4-Bromofluorobenzene	*91.5*			*67.0-138*		*10/19/2018 22:11*	WG1183157
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*10/22/2018 20:23*	WG1184604

Sample Narrative:

L1034970-14 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-14 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 11/16/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.4		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0155	0.0283	1	10/19/2018 22:31	WG1183157
Acrylonitrile	U		0.00215	0.0141	1	10/19/2018 22:31	WG1183157
Benzene	U		0.000452	0.00113	1	10/19/2018 22:31	WG1183157
Bromobenzene	U		0.00119	0.0141	1	10/19/2018 22:31	WG1183157
Bromodichloromethane	U		0.000891	0.00283	1	10/19/2018 22:31	WG1183157
Bromochloromethane	U		0.00128	0.00565	1	10/19/2018 22:31	WG1183157
Bromoform	U	UJ J0	0.00676	0.0283	1	10/19/2018 22:31	WG1183157
Bromomethane	U		0.00418	0.0141	1	10/19/2018 22:31	WG1183157
n-Butylbenzene	U		0.00434	0.0141	1	10/19/2018 22:31	WG1183157
sec-Butylbenzene	U		0.00286	0.0141	1	10/19/2018 22:31	WG1183157
tert-Butylbenzene	U		0.00175	0.00565	1	10/19/2018 22:31	WG1183157
Carbon disulfide	U	UJ J0	0.00459	0.0141	1	10/19/2018 22:31	WG1183157
Carbon tetrachloride	U		0.00122	0.00565	1	10/19/2018 22:31	WG1183157
Chlorobenzene	U		0.000648	0.00283	1	10/19/2018 22:31	WG1183157
Chlorodibromomethane	U		0.000509	0.00283	1	10/19/2018 22:31	WG1183157
Chloroethane	U		0.00122	0.00565	1	10/19/2018 22:31	WG1183157
Chloroform	0.000654	U B J	0.000469	0.00283	1	10/19/2018 22:31	WG1183157
Chloromethane	U		0.00157	0.0141	1	10/19/2018 22:31	WG1183157
2-Chlorotoluene	U		0.00104	0.00283	1	10/19/2018 22:31	WG1183157
4-Chlorotoluene	U		0.00128	0.00565	1	10/19/2018 22:31	WG1183157
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00577	0.0283	1	10/19/2018 22:31	WG1183157
1,2-Dibromoethane	U		0.000594	0.00283	1	10/19/2018 22:31	WG1183157
Dibromomethane	U		0.00113	0.00565	1	10/19/2018 22:31	WG1183157
1,2-Dichlorobenzene	U		0.00164	0.00565	1	10/19/2018 22:31	WG1183157
1,3-Dichlorobenzene	U		0.00192	0.00565	1	10/19/2018 22:31	WG1183157
1,4-Dichlorobenzene	U		0.00223	0.00565	1	10/19/2018 22:31	WG1183157
Dichlorodifluoromethane	U		0.000925	0.00283	1	10/19/2018 22:31	WG1183157
1,1-Dichloroethane	U		0.000650	0.00283	1	10/19/2018 22:31	WG1183157
1,2-Dichloroethane	U		0.000537	0.00283	1	10/19/2018 22:31	WG1183157
1,1-Dichloroethene	U		0.000565	0.00283	1	10/19/2018 22:31	WG1183157
cis-1,2-Dichloroethene	0.0366		0.000780	0.00283	1	10/19/2018 22:31	WG1183157
trans-1,2-Dichloroethene	U		0.00162	0.00565	1	10/19/2018 22:31	WG1183157
1,2-Dichloropropane	U		0.0574	0.226	40	10/22/2018 20:44	WG1184604
1,1-Dichloropropene	U		0.000791	0.00283	1	10/19/2018 22:31	WG1183157
1,3-Dichloropropane	U		0.00198	0.00565	1	10/19/2018 22:31	WG1183157
cis-1,3-Dichloropropene	U		0.000767	0.00283	1	10/19/2018 22:31	WG1183157
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	10/19/2018 22:31	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	10/19/2018 22:31	WG1183157
2,2-Dichloropropane	U		0.000897	0.00283	1	10/19/2018 22:31	WG1183157
Di-isopropyl ether	U		0.000396	0.00113	1	10/19/2018 22:31	WG1183157
Ethylbenzene	U		0.000599	0.00283	1	10/19/2018 22:31	WG1183157
Hexachloro-1,3-butadiene	U	UJ J0	0.0144	0.0283	1	10/19/2018 22:31	WG1183157
2-Hexanone	U		0.0113	0.0283	1	10/19/2018 22:31	WG1183157
n-Hexane	U		0.00120	0.00565	1	10/19/2018 22:31	WG1183157
Iodomethane	U		0.00684	0.0141	1	10/19/2018 22:31	WG1183157
Isopropylbenzene	U		0.000976	0.00283	1	10/19/2018 22:31	WG1183157
p-Isopropyltoluene	U		0.00263	0.00565	1	10/19/2018 22:31	WG1183157
2-Butanone (MEK)	U	UJ J0	0.565	1.13	40	10/22/2018 20:44	WG1184604
Methylene Chloride	U		0.00751	0.0283	1	10/19/2018 22:31	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	10/19/2018 22:31	WG1183157

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	10/19/2018 22:31	WG1183157
Naphthalene	U		0.00353	0.0141	1	10/19/2018 22:31	WG1183157
n-Propylbenzene	U		0.00133	0.00565	1	10/19/2018 22:31	WG1183157
Styrene	U UJ	J0	0.00309	0.0141	1	10/19/2018 22:31	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000565	0.00283	1	10/19/2018 22:31	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	10/19/2018 22:31	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00283	1	10/19/2018 22:31	WG1183157
Tetrachloroethene	12.0		0.0317	0.113	40	10/22/2018 20:44	WG1184604
Toluene	U		0.00141	0.00565	1	10/19/2018 22:31	WG1183157
1,2,3-Trichlorobenzene	U		0.000707	0.00283	1	10/19/2018 22:31	WG1183157
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	10/19/2018 22:31	WG1183157
1,1,1-Trichloroethane	U		0.000311	0.00283	1	10/19/2018 22:31	WG1183157
1,1,2-Trichloroethane	U		0.0399	0.113	40	10/22/2018 20:44	WG1184604
Trichloroethene	0.102		0.000452	0.00113	1	10/19/2018 22:31	WG1183157
Trichlorofluoromethane	U		0.000565	0.00283	1	10/19/2018 22:31	WG1183157
1,2,3-Trichloropropane	U		0.00577	0.0141	1	10/19/2018 22:31	WG1183157
1,2,4-Trimethylbenzene	U		0.00131	0.00565	1	10/19/2018 22:31	WG1183157
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	10/19/2018 22:31	WG1183157
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	10/19/2018 22:31	WG1183157
Vinyl acetate	U		0.00398	0.0141	1	10/19/2018 22:31	WG1183157
Vinyl chloride	U		0.000772	0.00283	1	10/19/2018 22:31	WG1183157
Xylenes, Total	U		0.00540	0.00735	1	10/19/2018 22:31	WG1183157
(S) Toluene-d8	*123*			*75.0-131*		*10/19/2018 22:31*	WG1183157
(S) Toluene-d8	*99.0*			*75.0-131*		*10/22/2018 20:44*	WG1184604
(S) Dibromofluoromethane	*95.3*			*65.0-129*		*10/19/2018 22:31*	WG1183157
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/22/2018 20:44*	WG1184604
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*		*10/19/2018 22:31*	WG1183157
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/22/2018 20:44*	WG1184604

Sample Narrative:

L1034970-15 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-15 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 11/16/18

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.4		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0178	U	J	0.0160	0.0293	1	10/19/2018 22:52	WG1183157
Acrylonitrile	U			0.00222	0.0146	1	10/19/2018 22:52	WG1183157
Benzene	U			0.000468	0.00117	1	10/19/2018 22:52	WG1183157
Bromobenzene	U			0.00123	0.0146	1	10/19/2018 22:52	WG1183157
Bromodichloromethane	U			0.000923	0.00293	1	10/19/2018 22:52	WG1183157
Bromochloromethane	U			0.00132	0.00586	1	10/19/2018 22:52	WG1183157
Bromoform	U	UJ	J0	0.00700	0.0293	1	10/19/2018 22:52	WG1183157
Bromomethane	U			0.00433	0.0146	1	10/19/2018 22:52	WG1183157
n-Butylbenzene	U			0.00450	0.0146	1	10/19/2018 22:52	WG1183157
sec-Butylbenzene	U			0.00296	0.0146	1	10/19/2018 22:52	WG1183157
tert-Butylbenzene	U			0.00182	0.00586	1	10/19/2018 22:52	WG1183157
Carbon disulfide	U	UJ	J0	0.00475	0.0146	1	10/19/2018 22:52	WG1183157
Carbon tetrachloride	U			0.00126	0.00586	1	10/19/2018 22:52	WG1183157
Chlorobenzene	U			0.000671	0.00293	1	10/19/2018 22:52	WG1183157
Chlorodibromomethane	U			0.000527	0.00293	1	10/19/2018 22:52	WG1183157
Chloroethane	U			0.00126	0.00586	1	10/19/2018 22:52	WG1183157
Chloroform	0.000952	U	B J	0.000486	0.00293	1	10/19/2018 22:52	WG1183157
Chloromethane	U			0.00163	0.0146	1	10/19/2018 22:52	WG1183157
2-Chlorotoluene	U			0.00108	0.00293	1	10/19/2018 22:52	WG1183157
4-Chlorotoluene	U			0.00132	0.00586	1	10/19/2018 22:52	WG1183157
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00597	0.0293	1	10/19/2018 22:52	WG1183157
1,2-Dibromoethane	U			0.000615	0.00293	1	10/19/2018 22:52	WG1183157
Dibromomethane	U			0.00117	0.00586	1	10/19/2018 22:52	WG1183157
1,2-Dichlorobenzene	U			0.00170	0.00586	1	10/19/2018 22:52	WG1183157
1,3-Dichlorobenzene	U			0.00199	0.00586	1	10/19/2018 22:52	WG1183157
1,4-Dichlorobenzene	U			0.00231	0.00586	1	10/19/2018 22:52	WG1183157
Dichlorodifluoromethane	U			0.000958	0.00293	1	10/19/2018 22:52	WG1183157
1,1-Dichloroethane	U			0.000673	0.00293	1	10/19/2018 22:52	WG1183157
1,2-Dichloroethane	U			0.000556	0.00293	1	10/19/2018 22:52	WG1183157
1,1-Dichloroethene	U			0.000586	0.00293	1	10/19/2018 22:52	WG1183157
cis-1,2-Dichloroethene	0.0474			0.000808	0.00293	1	10/19/2018 22:52	WG1183157
trans-1,2-Dichloroethene	U			0.00167	0.00586	1	10/19/2018 22:52	WG1183157
1,2-Dichloropropane	U			0.0595	0.234	40	10/22/2018 21:03	WG1184604
1,1-Dichloropropene	U			0.000820	0.00293	1	10/19/2018 22:52	WG1183157
1,3-Dichloropropane	U			0.00205	0.00586	1	10/19/2018 22:52	WG1183157
cis-1,3-Dichloropropene	U			0.000794	0.00293	1	10/19/2018 22:52	WG1183157
trans-1,3-Dichloropropene	U			0.00179	0.00586	1	10/19/2018 22:52	WG1183157
trans-1,4-Dichloro-2-butene	U			0.00164	0.00586	1	10/19/2018 22:52	WG1183157
2,2-Dichloropropane	U			0.000929	0.00293	1	10/19/2018 22:52	WG1183157
Di-isopropyl ether	U			0.000410	0.00117	1	10/19/2018 22:52	WG1183157
Ethylbenzene	U			0.000621	0.00293	1	10/19/2018 22:52	WG1183157
Hexachloro-1,3-butadiene	U	UJ	J0	0.0149	0.0293	1	10/19/2018 22:52	WG1183157
2-Hexanone	U			0.0117	0.0293	1	10/19/2018 22:52	WG1183157
n-Hexane	U			0.00124	0.00586	1	10/19/2018 22:52	WG1183157
Iodomethane	U			0.00708	0.0146	1	10/19/2018 22:52	WG1183157
Isopropylbenzene	U			0.00101	0.00293	1	10/19/2018 22:52	WG1183157
p-Isopropyltoluene	U			0.00273	0.00586	1	10/19/2018 22:52	WG1183157
2-Butanone (MEK)	U	UJ	J0	0.586	1.17	40	10/22/2018 21:03	WG1184604
Methylene Chloride	U			0.00778	0.0293	1	10/19/2018 22:52	WG1183157
4-Methyl-2-pentanone (MIBK)	U			0.0117	0.0293	1	10/19/2018 22:52	WG1183157

JC 11/16/18

B-251-20

Collected date/time: 10/15/18 12:57

SAMPLE RESULTS - 16

L1034970

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	10/19/2018 22:52	WG1183157
Naphthalene	U		0.00365	0.0146	1	10/19/2018 22:52	WG1183157
n-Propylbenzene	U		0.00138	0.00586	1	10/19/2018 22:52	WG1183157
Styrene	U UJ	J0	0.00320	0.0146	1	10/19/2018 22:52	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000586	0.00293	1	10/19/2018 22:52	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000457	0.00293	1	10/19/2018 22:52	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000790	0.00293	1	10/19/2018 22:52	WG1183157
Tetrachloroethene	6.66		0.0328	0.117	40	10/22/2018 21:03	WG1184604
Toluene	U		0.00146	0.00586	1	10/19/2018 22:52	WG1183157
1,2,3-Trichlorobenzene	U		0.000732	0.00293	1	10/19/2018 22:52	WG1183157
1,2,4-Trichlorobenzene	U		0.00564	0.0146	1	10/19/2018 22:52	WG1183157
1,1,1-Trichloroethane	U		0.000322	0.00293	1	10/19/2018 22:52	WG1183157
1,1,2-Trichloroethane	U		0.0413	0.117	40	10/22/2018 21:03	WG1184604
Trichloroethene	0.154		0.000468	0.00117	1	10/19/2018 22:52	WG1183157
Trichlorofluoromethane	U		0.000586	0.00293	1	10/19/2018 22:52	WG1183157
1,2,3-Trichloropropane	U		0.00597	0.0146	1	10/19/2018 22:52	WG1183157
1,2,4-Trimethylbenzene	U		0.00136	0.00586	1	10/19/2018 22:52	WG1183157
1,2,3-Trimethylbenzene	U		0.00135	0.00586	1	10/19/2018 22:52	WG1183157
1,3,5-Trimethylbenzene	U		0.00126	0.00586	1	10/19/2018 22:52	WG1183157
Vinyl acetate	U		0.00412	0.0146	1	10/19/2018 22:52	WG1183157
Vinyl chloride	U		0.000800	0.00293	1	10/19/2018 22:52	WG1183157
Xylenes, Total	U		0.00560	0.00761	1	10/19/2018 22:52	WG1183157
(S) Toluene-d8	*122*			*75.0-131*		*10/19/2018 22:52*	WG1183157
(S) Toluene-d8	*97.4*			*75.0-131*		*10/22/2018 21:03*	WG1184604
(S) Dibromofluoromethane	*94.6*			*65.0-129*		*10/19/2018 22:52*	WG1183157
(S) Dibromofluoromethane	*117*			*65.0-129*		*10/22/2018 21:03*	WG1184604
(S) 4-Bromofluorobenzene	*92.7*			*67.0-138*		*10/19/2018 22:52*	WG1183157
(S) 4-Bromofluorobenzene	*128*			*67.0-138*		*10/22/2018 21:03*	WG1184604

Sample Narrative:

L1034970-16 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-16 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 11/16/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	10/16/2018 14:25	WG1181703

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		13.1	23.8	830	10/17/2018 13:52	WG1182096
Acrylonitrile	U		0.00218	0.0144	1	10/16/2018 19:40	WG1181654
Benzene	U		0.000459	0.00115	1	10/16/2018 19:40	WG1181654
Bromobenzene	U		0.00121	0.0144	1	10/16/2018 19:40	WG1181654
Bromodichloromethane	U		0.000905	0.00287	1	10/16/2018 19:40	WG1181654
Bromochloromethane	U		0.00130	0.00574	1	10/16/2018 19:40	WG1181654
Bromoform	U		0.00687	0.0287	1	10/16/2018 19:40	WG1181654
Bromomethane	U		0.00425	0.0144	1	10/16/2018 19:40	WG1181654
n-Butylbenzene	U		0.00441	0.0144	1	10/16/2018 19:40	WG1181654
sec-Butylbenzene	U		0.00291	0.0144	1	10/16/2018 19:40	WG1181654
tert-Butylbenzene	U		0.00178	0.00574	1	10/16/2018 19:40	WG1181654
Carbon disulfide	U		0.00466	0.0144	1	10/16/2018 19:40	WG1181654
Carbon tetrachloride	U		0.00124	0.00574	1	10/16/2018 19:40	WG1181654
Chlorobenzene	U		0.000658	0.00287	1	10/16/2018 19:40	WG1181654
Chlorodibromomethane	U		0.000517	0.00287	1	10/16/2018 19:40	WG1181654
Chloroethane	U		0.00124	0.00574	1	10/16/2018 19:40	WG1181654
Chloroform	0.000767 U	B J	0.000477	0.00287	1	10/16/2018 19:40	WG1181654
Chloromethane	U		0.00160	0.0144	1	10/16/2018 19:40	WG1181654
2-Chlorotoluene	U		0.00106	0.00287	1	10/16/2018 19:40	WG1181654
4-Chlorotoluene	U		0.00130	0.00574	1	10/16/2018 19:40	WG1181654
1,2-Dibromo-3-Chloropropane	U		0.00586	0.0287	1	10/16/2018 19:40	WG1181654
1,2-Dibromoethane	U		0.000603	0.00287	1	10/16/2018 19:40	WG1181654
Dibromomethane	U U	J4	0.00115	0.00574	1	10/16/2018 19:40	WG1181654
1,2-Dichlorobenzene	U		0.00167	0.00574	1	10/16/2018 19:40	WG1181654
1,3-Dichlorobenzene	U		0.00195	0.00574	1	10/16/2018 19:40	WG1181654
1,4-Dichlorobenzene	U		0.00226	0.00574	1	10/16/2018 19:40	WG1181654
Dichlorodifluoromethane	U		0.000940	0.00287	1	10/16/2018 19:40	WG1181654
1,1-Dichloroethane	U		0.000660	0.00287	1	10/16/2018 19:40	WG1181654
1,2-Dichloroethane	U		0.000546	0.00287	1	10/16/2018 19:40	WG1181654
1,1-Dichloroethene	U		0.000574	0.00287	1	10/16/2018 19:40	WG1181654
cis-1,2-Dichloroethene	0.191		0.000793	0.00287	1	10/16/2018 19:40	WG1181654
trans-1,2-Dichloroethene	U		0.00164	0.00574	1	10/16/2018 19:40	WG1181654
1,2-Dichloropropane	U		0.00146	0.00574	1	10/16/2018 19:40	WG1181654
1,1-Dichloropropene	U		0.000804	0.00287	1	10/16/2018 19:40	WG1181654
1,3-Dichloropropane	U		0.00201	0.00574	1	10/16/2018 19:40	WG1181654
cis-1,3-Dichloropropene	U		0.000779	0.00287	1	10/16/2018 19:40	WG1181654
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	10/16/2018 19:40	WG1181654
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	10/16/2018 19:40	WG1181654
2,2-Dichloropropane	U		0.000911	0.00287	1	10/16/2018 19:40	WG1181654
Di-isopropyl ether	U		0.000402	0.00115	1	10/16/2018 19:40	WG1181654
Ethylbenzene	U		0.000609	0.00287	1	10/16/2018 19:40	WG1181654
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	10/16/2018 19:40	WG1181654
2-Hexanone	U		0.0115	0.0287	1	10/16/2018 19:40	WG1181654
n-Hexane	0.00180 J	J	0.00122	0.00574	1	10/16/2018 19:40	WG1181654
Iodomethane	U		0.00695	0.0144	1	10/16/2018 19:40	WG1181654
Isopropylbenzene	U		0.000991	0.00287	1	10/16/2018 19:40	WG1181654
p-Isopropyltoluene	U		0.00268	0.00574	1	10/16/2018 19:40	WG1181654
2-Butanone (MEK)	U		0.0144	0.0287	1	10/16/2018 19:40	WG1181654
Methylene Chloride	U		0.00763	0.0287	1	10/16/2018 19:40	WG1181654
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	10/16/2018 19:40	WG1181654

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000339	0.00115	1	10/16/2018 19:40	WG1181654
Naphthalene	U		0.00358	0.0144	1	10/16/2018 19:40	WG1181654
n-Propylbenzene	U		0.00136	0.00574	1	10/16/2018 19:40	WG1181654
Styrene	U		0.00314	0.0144	1	10/16/2018 19:40	WG1181654
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	10/16/2018 19:40	WG1181654
1,1,2,2-Tetrachloroethane	U U	J4	0.000448	0.00287	1	10/16/2018 19:40	WG1181654
1,1,2-Trichlorotrifluoroethane	U		0.000775	0.00287	1	10/16/2018 19:40	WG1181654
Tetrachloroethene	6.09		0.667	2.38	830	10/17/2018 13:52	WG1182096
Toluene	U		0.00144	0.00574	1	10/16/2018 19:40	WG1181654
1,2,3-Trichlorobenzene	U		0.000718	0.00287	1	10/16/2018 19:40	WG1181654
1,2,4-Trichlorobenzene	U		0.00554	0.0144	1	10/16/2018 19:40	WG1181654
1,1,1-Trichloroethane	U		0.000316	0.00287	1	10/16/2018 19:40	WG1181654
1,1,2-Trichloroethane	U U	J4	0.00101	0.00287	1	10/16/2018 19:40	WG1181654
Trichloroethene	0.512		0.000459	0.00115	1	10/16/2018 19:40	WG1181654
Trichlorofluoromethane	U		0.000574	0.00287	1	10/16/2018 19:40	WG1181654
1,2,3-Trichloropropane	U		0.00586	0.0144	1	10/16/2018 19:40	WG1181654
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	10/16/2018 19:40	WG1181654
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	10/16/2018 19:40	WG1181654
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	10/16/2018 19:40	WG1181654
Vinyl acetate	U		0.00404	0.0144	1	10/16/2018 19:40	WG1181654
Vinyl chloride	U		0.000785	0.00287	1	10/16/2018 19:40	WG1181654
Xylenes, Total	U		0.00549	0.00747	1	10/16/2018 19:40	WG1181654
(S) Toluene-d8	*119*			*75.0-131*		*10/16/2018 19:40*	WG1181654
(S) Toluene-d8	*99.1*			*75.0-131*		*10/17/2018 13:52*	WG1182096
(S) Dibromofluoromethane	*74.6*			*65.0-129*		*10/16/2018 19:40*	WG1181654
(S) Dibromofluoromethane	*120*			*65.0-129*		*10/17/2018 13:52*	WG1182096
(S) 4-Bromofluorobenzene	*98.7*			*67.0-138*		*10/16/2018 19:40*	WG1181654
(S) 4-Bromofluorobenzene	*118*			*67.0-138*		*10/17/2018 13:52*	WG1182096

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.7		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0143	0.0261	1	10/19/2018 23:12	WG1183157
Acrylonitrile	U		0.00199	0.0131	1	10/19/2018 23:12	WG1183157
Benzene	U		0.000418	0.00104	1	10/19/2018 23:12	WG1183157
Bromobenzene	U		0.00110	0.0131	1	10/19/2018 23:12	WG1183157
Bromodichloromethane	U		0.000823	0.00261	1	10/19/2018 23:12	WG1183157
Bromochloromethane	U		0.00118	0.00522	1	10/19/2018 23:12	WG1183157
Bromoform	U UJ	J0	0.00625	0.0261	1	10/19/2018 23:12	WG1183157
Bromomethane	U		0.00387	0.0131	1	10/19/2018 23:12	WG1183157
n-Butylbenzene	U		0.00401	0.0131	1	10/19/2018 23:12	WG1183157
sec-Butylbenzene	U		0.00264	0.0131	1	10/19/2018 23:12	WG1183157
tert-Butylbenzene	U		0.00162	0.00522	1	10/19/2018 23:12	WG1183157
Carbon disulfide	U UJ	J0	0.00424	0.0131	1	10/19/2018 23:12	WG1183157
Carbon tetrachloride	U		0.00113	0.00522	1	10/19/2018 23:12	WG1183157
Chlorobenzene	U		0.000599	0.00261	1	10/19/2018 23:12	WG1183157
Chlorodibromomethane	U		0.000470	0.00261	1	10/19/2018 23:12	WG1183157
Chloroethane	U		0.00113	0.00522	1	10/19/2018 23:12	WG1183157
Chloroform	0.000887 U	B J	0.000434	0.00261	1	10/19/2018 23:12	WG1183157
Chloromethane	U		0.00145	0.0131	1	10/19/2018 23:12	WG1183157
2-Chlorotoluene	U		0.000961	0.00261	1	10/19/2018 23:12	WG1183157
4-Chlorotoluene	U		0.00118	0.00522	1	10/19/2018 23:12	WG1183157
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00533	0.0261	1	10/19/2018 23:12	WG1183157
1,2-Dibromoethane	U		0.000549	0.00261	1	10/19/2018 23:12	WG1183157
Dibromomethane	U		0.00104	0.00522	1	10/19/2018 23:12	WG1183157
1,2-Dichlorobenzene	U		0.00151	0.00522	1	10/19/2018 23:12	WG1183157
1,3-Dichlorobenzene	U		0.00178	0.00522	1	10/19/2018 23:12	WG1183157
1,4-Dichlorobenzene	U		0.00206	0.00522	1	10/19/2018 23:12	WG1183157
Dichlorodifluoromethane	U		0.000855	0.00261	1	10/19/2018 23:12	WG1183157
1,1-Dichloroethane	U		0.000601	0.00261	1	10/19/2018 23:12	WG1183157
1,2-Dichloroethane	U		0.000496	0.00261	1	10/19/2018 23:12	WG1183157
1,1-Dichloroethene	U		0.000522	0.00261	1	10/19/2018 23:12	WG1183157
cis-1,2-Dichloroethene	0.0146		0.000721	0.00261	1	10/19/2018 23:12	WG1183157
trans-1,2-Dichloroethene	U		0.00149	0.00522	1	10/19/2018 23:12	WG1183157
1,2-Dichloropropane	U		0.00133	0.00522	1	10/22/2018 16:44	WG1184604
1,1-Dichloropropene	U		0.000731	0.00261	1	10/19/2018 23:12	WG1183157
1,3-Dichloropropane	U		0.00183	0.00522	1	10/19/2018 23:12	WG1183157
cis-1,3-Dichloropropene	U		0.000708	0.00261	1	10/19/2018 23:12	WG1183157
trans-1,3-Dichloropropene	U		0.00160	0.00522	1	10/19/2018 23:12	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00146	0.00522	1	10/19/2018 23:12	WG1183157
2,2-Dichloropropane	U		0.000829	0.00261	1	10/19/2018 23:12	WG1183157
Di-isopropyl ether	U		0.000366	0.00104	1	10/19/2018 23:12	WG1183157
Ethylbenzene	U		0.000554	0.00261	1	10/19/2018 23:12	WG1183157
Hexachloro-1,3-butadiene	U UJ	J0	0.0133	0.0261	1	10/19/2018 23:12	WG1183157
2-Hexanone	U		0.0104	0.0261	1	10/19/2018 23:12	WG1183157
n-Hexane	0.00228 J	J	0.00111	0.00522	1	10/19/2018 23:12	WG1183157
Iodomethane	U		0.00632	0.0131	1	10/19/2018 23:12	WG1183157
Isopropylbenzene	U		0.000902	0.00261	1	10/19/2018 23:12	WG1183157
p-Isopropyltoluene	U		0.00243	0.00522	1	10/19/2018 23:12	WG1183157
2-Butanone (MEK)	0.0516 J	J0	0.0131	0.0261	1	10/22/2018 16:44	WG1184604
Methylene Chloride	0.00853 U	B J	0.00694	0.0261	1	10/19/2018 23:12	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0104	0.0261	1	10/19/2018 23:12	WG1183157

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000308	0.00104	1	10/19/2018 23:12	WG1183157
Naphthalene	U		0.00326	0.0131	1	10/19/2018 23:12	WG1183157
n-Propylbenzene	U		0.00123	0.00522	1	10/19/2018 23:12	WG1183157
Styrene	U UJ	J0	0.00285	0.0131	1	10/19/2018 23:12	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000522	0.00261	1	10/19/2018 23:12	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000407	0.00261	1	10/19/2018 23:12	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000705	0.00261	1	10/19/2018 23:12	WG1183157
Tetrachloroethene	0.306		0.000731	0.00261	1	10/19/2018 23:12	WG1183157
Toluene	U		0.00131	0.00522	1	10/19/2018 23:12	WG1183157
1,2,3-Trichlorobenzene	U		0.000653	0.00261	1	10/19/2018 23:12	WG1183157
1,2,4-Trichlorobenzene	U		0.00504	0.0131	1	10/19/2018 23:12	WG1183157
1,1,1-Trichloroethane	U		0.000287	0.00261	1	10/19/2018 23:12	WG1183157
1,1,2-Trichloroethane	U		0.000923	0.00261	1	10/22/2018 16:44	WG1184604
Trichloroethene	0.0201		0.000418	0.00104	1	10/19/2018 23:12	WG1183157
Trichlorofluoromethane	U		0.000522	0.00261	1	10/19/2018 23:12	WG1183157
1,2,3-Trichloropropane	U		0.00533	0.0131	1	10/19/2018 23:12	WG1183157
1,2,4-Trimethylbenzene	U		0.00121	0.00522	1	10/19/2018 23:12	WG1183157
1,2,3-Trimethylbenzene	U		0.00120	0.00522	1	10/19/2018 23:12	WG1183157
1,3,5-Trimethylbenzene	U		0.00113	0.00522	1	10/19/2018 23:12	WG1183157
Vinyl acetate	U		0.00368	0.0131	1	10/19/2018 23:12	WG1183157
Vinyl chloride	U		0.000714	0.00261	1	10/19/2018 23:12	WG1183157
Xylenes, Total	U		0.00499	0.00679	1	10/19/2018 23:12	WG1183157
(S) Toluene-d8	*126*			*75.0-131*		*10/19/2018 23:12*	WG1183157
(S) Toluene-d8	*99.9*			*75.0-131*		*10/22/2018 16:44*	WG1184604
(S) Dibromofluoromethane	*93.5*			*65.0-129*		*10/19/2018 23:12*	WG1183157
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/22/2018 16:44*	WG1184604
(S) 4-Bromofluorobenzene	*91.7*			*67.0-138*		*10/19/2018 23:12*	WG1183157
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/22/2018 16:44*	WG1184604

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.2		1	10/22/2018 09:45	WG1183344

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0152	0.0277	1	10/19/2018 23:33	WG1183157
Acrylonitrile	U		0.00211	0.0139	1	10/19/2018 23:33	WG1183157
Benzene	U		0.000443	0.00111	1	10/19/2018 23:33	WG1183157
Bromobenzene	U		0.00116	0.0139	1	10/19/2018 23:33	WG1183157
Bromodichloromethane	U		0.000874	0.00277	1	10/19/2018 23:33	WG1183157
Bromochloromethane	U		0.00125	0.00554	1	10/19/2018 23:33	WG1183157
Bromoform	U UJ	J0	0.00663	0.0277	1	10/19/2018 23:33	WG1183157
Bromomethane	U		0.00410	0.0139	1	10/19/2018 23:33	WG1183157
n-Butylbenzene	U		0.00426	0.0139	1	10/19/2018 23:33	WG1183157
sec-Butylbenzene	U		0.00281	0.0139	1	10/19/2018 23:33	WG1183157
tert-Butylbenzene	U		0.00172	0.00554	1	10/19/2018 23:33	WG1183157
Carbon disulfide	U UJ	J0	0.00450	0.0139	1	10/19/2018 23:33	WG1183157
Carbon tetrachloride	U		0.00120	0.00554	1	10/19/2018 23:33	WG1183157
Chlorobenzene	U		0.000635	0.00277	1	10/19/2018 23:33	WG1183157
Chlorodibromomethane	U		0.000499	0.00277	1	10/19/2018 23:33	WG1183157
Chloroethane	U		0.00120	0.00554	1	10/19/2018 23:33	WG1183157
Chloroform	0.000808 U	B J	0.000460	0.00277	1	10/19/2018 23:33	WG1183157
Chloromethane	U		0.00154	0.0139	1	10/19/2018 23:33	WG1183157
2-Chlorotoluene	U		0.00102	0.00277	1	10/19/2018 23:33	WG1183157
4-Chlorotoluene	U		0.00125	0.00554	1	10/19/2018 23:33	WG1183157
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00565	0.0277	1	10/19/2018 23:33	WG1183157
1,2-Dibromoethane	U		0.000582	0.00277	1	10/19/2018 23:33	WG1183157
Dibromomethane	U		0.00111	0.00554	1	10/19/2018 23:33	WG1183157
1,2-Dichlorobenzene	U		0.00161	0.00554	1	10/19/2018 23:33	WG1183157
1,3-Dichlorobenzene	U		0.00188	0.00554	1	10/19/2018 23:33	WG1183157
1,4-Dichlorobenzene	U		0.00218	0.00554	1	10/19/2018 23:33	WG1183157
Dichlorodifluoromethane	U		0.000907	0.00277	1	10/19/2018 23:33	WG1183157
1,1-Dichloroethane	U		0.000638	0.00277	1	10/19/2018 23:33	WG1183157
1,2-Dichloroethane	U		0.000527	0.00277	1	10/19/2018 23:33	WG1183157
1,1-Dichloroethene	U		0.000554	0.00277	1	10/19/2018 23:33	WG1183157
cis-1,2-Dichloroethene	0.0600		0.000765	0.00277	1	10/19/2018 23:33	WG1183157
trans-1,2-Dichloroethene	U		0.00159	0.00554	1	10/19/2018 23:33	WG1183157
1,2-Dichloropropane	U		0.00141	0.00554	1	10/22/2018 17:04	WG1184604
1,1-Dichloropropene	U		0.000776	0.00277	1	10/19/2018 23:33	WG1183157
1,3-Dichloropropane	U		0.00194	0.00554	1	10/19/2018 23:33	WG1183157
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	10/19/2018 23:33	WG1183157
trans-1,3-Dichloropropene	U		0.00170	0.00554	1	10/19/2018 23:33	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00155	0.00554	1	10/19/2018 23:33	WG1183157
2,2-Dichloropropane	U		0.000879	0.00277	1	10/19/2018 23:33	WG1183157
Di-isopropyl ether	U		0.000388	0.00111	1	10/19/2018 23:33	WG1183157
Ethylbenzene	U		0.000588	0.00277	1	10/19/2018 23:33	WG1183157
Hexachloro-1,3-butadiene	U UJ	J0	0.0141	0.0277	1	10/19/2018 23:33	WG1183157
2-Hexanone	U		0.0111	0.0277	1	10/19/2018 23:33	WG1183157
n-Hexane	0.00177 J	J	0.00118	0.00554	1	10/19/2018 23:33	WG1183157
Iodomethane	U		0.00671	0.0139	1	10/19/2018 23:33	WG1183157
Isopropylbenzene	U		0.000957	0.00277	1	10/19/2018 23:33	WG1183157
p-Isopropyltoluene	U		0.00258	0.00554	1	10/19/2018 23:33	WG1183157
2-Butanone (MEK)	0.0333 J	J0	0.0139	0.0277	1	10/22/2018 17:04	WG1184604
Methylene Chloride	U		0.00736	0.0277	1	10/19/2018 23:33	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	10/19/2018 23:33	WG1183157

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L1034970

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	10/19/2018 23:33	WG1183157
Naphthalene	U		0.00346	0.0139	1	10/19/2018 23:33	WG1183157
n-Propylbenzene	U		0.00131	0.00554	1	10/19/2018 23:33	WG1183157
Styrene	U	UJ J0	0.00303	0.0139	1	10/19/2018 23:33	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000554	0.00277	1	10/19/2018 23:33	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	10/19/2018 23:33	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000748	0.00277	1	10/19/2018 23:33	WG1183157
Tetrachloroethene	0.356		0.000776	0.00277	1	10/19/2018 23:33	WG1183157
Toluene	U		0.00139	0.00554	1	10/19/2018 23:33	WG1183157
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	10/19/2018 23:33	WG1183157
1,2,4-Trichlorobenzene	U		0.00534	0.0139	1	10/19/2018 23:33	WG1183157
1,1,1-Trichloroethane	U		0.000305	0.00277	1	10/19/2018 23:33	WG1183157
1,1,2-Trichloroethane	U		0.000979	0.00277	1	10/22/2018 17:04	WG1184604
Trichloroethene	0.0503		0.000443	0.00111	1	10/19/2018 23:33	WG1183157
Trichlorofluoromethane	U		0.000554	0.00277	1	10/19/2018 23:33	WG1183157
1,2,3-Trichloropropane	U		0.00565	0.0139	1	10/19/2018 23:33	WG1183157
1,2,4-Trimethylbenzene	U		0.00129	0.00554	1	10/19/2018 23:33	WG1183157
1,2,3-Trimethylbenzene	U		0.00128	0.00554	1	10/19/2018 23:33	WG1183157
1,3,5-Trimethylbenzene	U		0.00120	0.00554	1	10/19/2018 23:33	WG1183157
Vinyl acetate	U		0.00390	0.0139	1	10/19/2018 23:33	WG1183157
Vinyl chloride	U		0.000757	0.00277	1	10/19/2018 23:33	WG1183157
Xylenes, Total	U		0.00530	0.00721	1	10/19/2018 23:33	WG1183157
(S) Toluene-d8	*125*			*75.0-131*		*10/19/2018 23:33*	WG1183157
(S) Toluene-d8	*99.4*			*75.0-131*		*10/22/2018 17:04*	WG1184604
(S) Dibromofluoromethane	*91.7*			*65.0-129*		*10/19/2018 23:33*	WG1183157
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/22/2018 17:04*	WG1184604
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*10/19/2018 23:33*	WG1183157
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/22/2018 17:04*	WG1184604

JC 11/16/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.5		1	10/22/2018 09:45	WG1183344

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0147	0.0267	1	10/19/2018 23:54	WG1183157
Acrylonitrile	U		0.00203	0.0134	1	10/19/2018 23:54	WG1183157
Benzene	U		0.000428	0.00107	1	10/19/2018 23:54	WG1183157
Bromobenzene	U		0.00112	0.0134	1	10/19/2018 23:54	WG1183157
Bromodichloromethane	U		0.000843	0.00267	1	10/19/2018 23:54	WG1183157
Bromochloromethane	U		0.00121	0.00535	1	10/19/2018 23:54	WG1183157
Bromoform	U UJ	J0	0.00640	0.0267	1	10/19/2018 23:54	WG1183157
Bromomethane	U		0.00396	0.0134	1	10/19/2018 23:54	WG1183157
n-Butylbenzene	U		0.00411	0.0134	1	10/19/2018 23:54	WG1183157
sec-Butylbenzene	U		0.00271	0.0134	1	10/19/2018 23:54	WG1183157
tert-Butylbenzene	U		0.00166	0.00535	1	10/19/2018 23:54	WG1183157
Carbon disulfide	U UJ	J0	0.00434	0.0134	1	10/19/2018 23:54	WG1183157
Carbon tetrachloride	U		0.00116	0.00535	1	10/19/2018 23:54	WG1183157
Chlorobenzene	U		0.000613	0.00267	1	10/19/2018 23:54	WG1183157
Chlorodibromomethane	U		0.000481	0.00267	1	10/19/2018 23:54	WG1183157
Chloroethane	U		0.00116	0.00535	1	10/19/2018 23:54	WG1183157
Chloroform	U		0.000444	0.00267	1	10/19/2018 23:54	WG1183157
Chloromethane	U		0.00149	0.0134	1	10/19/2018 23:54	WG1183157
2-Chlorotoluene	U		0.000984	0.00267	1	10/19/2018 23:54	WG1183157
4-Chlorotoluene	U		0.00121	0.00535	1	10/19/2018 23:54	WG1183157
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00546	0.0267	1	10/19/2018 23:54	WG1183157
1,2-Dibromoethane	U		0.000562	0.00267	1	10/19/2018 23:54	WG1183157
Dibromomethane	U		0.00107	0.00535	1	10/19/2018 23:54	WG1183157
1,2-Dichlorobenzene	U		0.00155	0.00535	1	10/19/2018 23:54	WG1183157
1,3-Dichlorobenzene	U		0.00182	0.00535	1	10/19/2018 23:54	WG1183157
1,4-Dichlorobenzene	U		0.00211	0.00535	1	10/19/2018 23:54	WG1183157
Dichlorodifluoromethane	U		0.000875	0.00267	1	10/19/2018 23:54	WG1183157
1,1-Dichloroethane	U		0.000615	0.00267	1	10/19/2018 23:54	WG1183157
1,2-Dichloroethane	U		0.000508	0.00267	1	10/19/2018 23:54	WG1183157
1,1-Dichloroethene	U		0.000535	0.00267	1	10/19/2018 23:54	WG1183157
cis-1,2-Dichloroethene	0.0312		0.000738	0.00267	1	10/19/2018 23:54	WG1183157
trans-1,2-Dichloroethene	U		0.00153	0.00535	1	10/19/2018 23:54	WG1183157
1,2-Dichloropropane	U		0.00136	0.00535	1	10/22/2018 17:24	WG1184604
1,1-Dichloropropene	U		0.000749	0.00267	1	10/19/2018 23:54	WG1183157
1,3-Dichloropropane	U		0.00187	0.00535	1	10/19/2018 23:54	WG1183157
cis-1,3-Dichloropropene	U		0.000725	0.00267	1	10/19/2018 23:54	WG1183157
trans-1,3-Dichloropropene	U		0.00164	0.00535	1	10/19/2018 23:54	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00150	0.00535	1	10/19/2018 23:54	WG1183157
2,2-Dichloropropane	U		0.000848	0.00267	1	10/19/2018 23:54	WG1183157
Di-isopropyl ether	U		0.000374	0.00107	1	10/19/2018 23:54	WG1183157
Ethylbenzene	U		0.000567	0.00267	1	10/19/2018 23:54	WG1183157
Hexachloro-1,3-butadiene	U UJ	J0	0.0136	0.0267	1	10/19/2018 23:54	WG1183157
2-Hexanone	U		0.0107	0.0267	1	10/19/2018 23:54	WG1183157
n-Hexane	U		0.00113	0.00535	1	10/19/2018 23:54	WG1183157
Iodomethane	U		0.00647	0.0134	1	10/19/2018 23:54	WG1183157
Isopropylbenzene	U		0.000923	0.00267	1	10/19/2018 23:54	WG1183157
p-Isopropyltoluene	U		0.00249	0.00535	1	10/19/2018 23:54	WG1183157
2-Butanone (MEK)	0.0507 UJ	J0	0.0134	0.0267	1	10/22/2018 17:24	WG1184604
Methylene Chloride	U		0.00710	0.0267	1	10/19/2018 23:54	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	10/19/2018 23:54	WG1183157

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000316	0.00107	1	10/19/2018 23:54	WG1183157
Naphthalene	U			0.00334	0.0134	1	10/19/2018 23:54	WG1183157
n-Propylbenzene	U			0.00126	0.00535	1	10/19/2018 23:54	WG1183157
Styrene	U	UJ	J0	0.00292	0.0134	1	10/19/2018 23:54	WG1183157
1,1,1,2-Tetrachloroethane	U			0.000535	0.00267	1	10/19/2018 23:54	WG1183157
1,1,2,2-Tetrachloroethane	U			0.000417	0.00267	1	10/19/2018 23:54	WG1183157
1,1,2-Trichlorotrifluoroethane	U			0.000722	0.00267	1	10/19/2018 23:54	WG1183157
Tetrachloroethene	0.0783			0.000749	0.00267	1	10/19/2018 23:54	WG1183157
Toluene	U			0.00134	0.00535	1	10/19/2018 23:54	WG1183157
1,2,3-Trichlorobenzene	U			0.000669	0.00267	1	10/19/2018 23:54	WG1183157
1,2,4-Trichlorobenzene	U			0.00516	0.0134	1	10/19/2018 23:54	WG1183157
1,1,1-Trichloroethane	U			0.000294	0.00267	1	10/19/2018 23:54	WG1183157
1,1,2-Trichloroethane	U			0.000945	0.00267	1	10/22/2018 17:24	WG1184604
Trichloroethene	0.0156			0.000428	0.00107	1	10/19/2018 23:54	WG1183157
Trichlorofluoromethane	U			0.000535	0.00267	1	10/19/2018 23:54	WG1183157
1,2,3-Trichloropropane	U			0.00546	0.0134	1	10/19/2018 23:54	WG1183157
1,2,4-Trimethylbenzene	U			0.00124	0.00535	1	10/19/2018 23:54	WG1183157
1,2,3-Trimethylbenzene	U			0.00123	0.00535	1	10/19/2018 23:54	WG1183157
1,3,5-Trimethylbenzene	U			0.00116	0.00535	1	10/19/2018 23:54	WG1183157
Vinyl acetate	U			0.00377	0.0134	1	10/19/2018 23:54	WG1183157
Vinyl chloride	U			0.000731	0.00267	1	10/19/2018 23:54	WG1183157
Xylenes, Total	U			0.00511	0.00695	1	10/19/2018 23:54	WG1183157
(S) Toluene-d8	*124*				*75.0-131*		*10/19/2018 23:54*	WG1183157
(S) Toluene-d8	*100*				*75.0-131*		*10/22/2018 17:24*	WG1184604
(S) Dibromofluoromethane	*91.8*				*65.0-129*		*10/19/2018 23:54*	WG1183157
(S) Dibromofluoromethane	*112*				*65.0-129*		*10/22/2018 17:24*	WG1184604
(S) 4-Bromofluorobenzene	*93.1*				*67.0-138*		*10/19/2018 23:54*	WG1183157
(S) 4-Bromofluorobenzene	*119*				*67.0-138*		*10/22/2018 17:24*	WG1184604

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 11/16/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.9		1	10/22/2018 09:45	WG1183344

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U			0.0161	0.0295	1	10/20/2018 00:14	WG1183157	
Acrylonitrile	U			0.00224	0.0147	1	10/20/2018 00:14	WG1183157	
Benzene	U			0.000471	0.00118	1	10/20/2018 00:14	WG1183157	
Bromobenzene	U			0.00124	0.0147	1	10/20/2018 00:14	WG1183157	
Bromodichloromethane	U			0.000928	0.00295	1	10/20/2018 00:14	WG1183157	
Bromochloromethane	U			0.00133	0.00589	1	10/20/2018 00:14	WG1183157	
Bromoform	U	UJ	J0	0.00705	0.0295	1	10/20/2018 00:14	WG1183157	
Bromomethane	U			0.00436	0.0147	1	10/20/2018 00:14	WG1183157	
n-Butylbenzene	U			0.00452	0.0147	1	10/20/2018 00:14	WG1183157	
sec-Butylbenzene	U			0.00298	0.0147	1	10/20/2018 00:14	WG1183157	
tert-Butylbenzene	U			0.00183	0.00589	1	10/20/2018 00:14	WG1183157	
Carbon disulfide	U	UJ	J0	0.00478	0.0147	1	10/20/2018 00:14	WG1183157	
Carbon tetrachloride	U			0.00127	0.00589	1	10/20/2018 00:14	WG1183157	
Chlorobenzene	U			0.000675	0.00295	1	10/20/2018 00:14	WG1183157	
Chlorodibromomethane	U			0.000530	0.00295	1	10/20/2018 00:14	WG1183157	
Chloroethane	U			0.00127	0.00589	1	10/20/2018 00:14	WG1183157	
Chloroform	0.00130	U	B J	0.000489	0.00295	1	10/20/2018 00:14	WG1183157	
Chloromethane	U			0.00164	0.0147	1	10/20/2018 00:14	WG1183157	
2-Chlorotoluene	U			0.00108	0.00295	1	10/20/2018 00:14	WG1183157	
4-Chlorotoluene	U			0.00133	0.00589	1	10/20/2018 00:14	WG1183157	
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00601	0.0295	1	10/20/2018 00:14	WG1183157	
1,2-Dibromoethane	U			0.000619	0.00295	1	10/20/2018 00:14	WG1183157	
Dibromomethane	U			0.00118	0.00589	1	10/20/2018 00:14	WG1183157	
1,2-Dichlorobenzene	U			0.00171	0.00589	1	10/20/2018 00:14	WG1183157	
1,3-Dichlorobenzene	U			0.00200	0.00589	1	10/20/2018 00:14	WG1183157	
1,4-Dichlorobenzene	U			0.00232	0.00589	1	10/20/2018 00:14	WG1183157	
Dichlorodifluoromethane	U			0.000964	0.00295	1	10/20/2018 00:14	WG1183157	
1,1-Dichloroethane	U			0.000677	0.00295	1	10/20/2018 00:14	WG1183157	
1,2-Dichloroethane	U			0.000560	0.00295	1	10/20/2018 00:14	WG1183157	
1,1-Dichloroethene	U			0.000589	0.00295	1	10/20/2018 00:14	WG1183157	
cis-1,2-Dichloroethene	0.340			0.000813	0.00295	1	10/20/2018 00:14	WG1183157	
trans-1,2-Dichloroethene	U			0.00168	0.00589	1	10/20/2018 00:14	WG1183157	
1,2-Dichloropropane	U			0.0299	0.118	20	10/22/2018 21:23	WG1184604	
1,1-Dichloropropene	U			0.000825	0.00295	1	10/20/2018 00:14	WG1183157	
1,3-Dichloropropane	U			0.00206	0.00589	1	10/20/2018 00:14	WG1183157	
cis-1,3-Dichloropropene	U			0.000799	0.00295	1	10/20/2018 00:14	WG1183157	
trans-1,3-Dichloropropene	U			0.00180	0.00589	1	10/20/2018 00:14	WG1183157	
trans-1,4-Dichloro-2-butene	U			0.00165	0.00589	1	10/20/2018 00:14	WG1183157	
2,2-Dichloropropane	U			0.000934	0.00295	1	10/20/2018 00:14	WG1183157	
Di-isopropyl ether	U			0.000412	0.00118	1	10/20/2018 00:14	WG1183157	
Ethylbenzene	U			0.000624	0.00295	1	10/20/2018 00:14	WG1183157	
Hexachloro-1,3-butadiene	U	UJ	J0	0.0150	0.0295	1	10/20/2018 00:14	WG1183157	
2-Hexanone	U			0.0118	0.0295	1	10/20/2018 00:14	WG1183157	
n-Hexane	U			0.00125	0.00589	1	10/20/2018 00:14	WG1183157	
Iodomethane	U			0.00713	0.0147	1	10/20/2018 00:14	WG1183157	
Isopropylbenzene	U			0.00102	0.00295	1	10/20/2018 00:14	WG1183157	
p-Isopropyltoluene	U			0.00275	0.00589	1	10/20/2018 00:14	WG1183157	
2-Butanone (MEK)	U	UJ	J0	0.295	0.589	20	10/22/2018 21:23	WG1184604	JC 11/16/18
Methylene Chloride	U			0.00782	0.0295	1	10/20/2018 00:14	WG1183157	
4-Methyl-2-pentanone (MIBK)	U			0.0118	0.0295	1	10/20/2018 00:14	WG1183157	

B-252-15

Collected date/time: 10/15/18 14:35

SAMPLE RESULTS - 21

L1034970

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000348	0.00118	1	10/20/2018 00:14	WG1183157
Naphthalene	U		0.00368	0.0147	1	10/20/2018 00:14	WG1183157
n-Propylbenzene	U		0.00139	0.00589	1	10/20/2018 00:14	WG1183157
Styrene	U	UJ J0	0.00322	0.0147	1	10/20/2018 00:14	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000589	0.00295	1	10/20/2018 00:14	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000460	0.00295	1	10/20/2018 00:14	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000795	0.00295	1	10/20/2018 00:14	WG1183157
Tetrachloroethene	3.43		0.0165	0.0589	20	10/22/2018 21:23	WG1184604
Toluene	U		0.00147	0.00589	1	10/20/2018 00:14	WG1183157
1,2,3-Trichlorobenzene	U		0.000736	0.00295	1	10/20/2018 00:14	WG1183157
1,2,4-Trichlorobenzene	U		0.00568	0.0147	1	10/20/2018 00:14	WG1183157
1,1,1-Trichloroethane	U		0.000324	0.00295	1	10/20/2018 00:14	WG1183157
1,1,2-Trichloroethane	U		0.0209	0.0589	20	10/22/2018 21:23	WG1184604
Trichloroethene	0.682		0.000471	0.00118	1	10/20/2018 00:14	WG1183157
Trichlorofluoromethane	U		0.000589	0.00295	1	10/20/2018 00:14	WG1183157
1,2,3-Trichloropropane	U		0.00601	0.0147	1	10/20/2018 00:14	WG1183157
1,2,4-Trimethylbenzene	U		0.00137	0.00589	1	10/20/2018 00:14	WG1183157
1,2,3-Trimethylbenzene	U		0.00135	0.00589	1	10/20/2018 00:14	WG1183157
1,3,5-Trimethylbenzene	U		0.00127	0.00589	1	10/20/2018 00:14	WG1183157
Vinyl acetate	U		0.00415	0.0147	1	10/20/2018 00:14	WG1183157
Vinyl chloride	U		0.000805	0.00295	1	10/20/2018 00:14	WG1183157
Xylenes, Total	U		0.00563	0.00766	1	10/20/2018 00:14	WG1183157
(S) Toluene-d8	*126*			*75.0-131*		*10/20/2018 00:14*	WG1183157
(S) Toluene-d8	*99.6*			*75.0-131*		*10/22/2018 21:23*	WG1184604
(S) Dibromofluoromethane	*91.6*			*65.0-129*		*10/20/2018 00:14*	WG1183157
(S) Dibromofluoromethane	*117*			*65.0-129*		*10/22/2018 21:23*	WG1184604
(S) 4-Bromofluorobenzene	*98.7*			*67.0-138*		*10/20/2018 00:14*	WG1183157
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/22/2018 21:23*	WG1184604

Sample Narrative:

L1034970-21 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-21 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 11/16/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.9		1	10/22/2018 09:45	WG1183344

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0165	0.0302	1	10/20/2018 00:35	WG1183157
Acrylonitrile	U		0.00229	0.0151	1	10/20/2018 00:35	WG1183157
Benzene	U		0.000483	0.00121	1	10/20/2018 00:35	WG1183157
Bromobenzene	U		0.00127	0.0151	1	10/20/2018 00:35	WG1183157
Bromodichloromethane	U		0.000951	0.00302	1	10/20/2018 00:35	WG1183157
Bromochloromethane	U		0.00136	0.00603	1	10/20/2018 00:35	WG1183157
Bromoform	U UJ	J0	0.00722	0.0302	1	10/20/2018 00:35	WG1183157
Bromomethane	U		0.00447	0.0151	1	10/20/2018 00:35	WG1183157
n-Butylbenzene	U		0.00463	0.0151	1	10/20/2018 00:35	WG1183157
sec-Butylbenzene	U		0.00305	0.0151	1	10/20/2018 00:35	WG1183157
tert-Butylbenzene	U		0.00187	0.00603	1	10/20/2018 00:35	WG1183157
Carbon disulfide	U UJ	J0	0.00490	0.0151	1	10/20/2018 00:35	WG1183157
Carbon tetrachloride	U		0.00130	0.00603	1	10/20/2018 00:35	WG1183157
Chlorobenzene	U		0.000692	0.00302	1	10/20/2018 00:35	WG1183157
Chlorodibromomethane	U		0.000543	0.00302	1	10/20/2018 00:35	WG1183157
Chloroethane	U		0.00130	0.00603	1	10/20/2018 00:35	WG1183157
Chloroform	U		0.000501	0.00302	1	10/20/2018 00:35	WG1183157
Chloromethane	U		0.00168	0.0151	1	10/20/2018 00:35	WG1183157
2-Chlorotoluene	U		0.00111	0.00302	1	10/20/2018 00:35	WG1183157
4-Chlorotoluene	U		0.00136	0.00603	1	10/20/2018 00:35	WG1183157
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00616	0.0302	1	10/20/2018 00:35	WG1183157
1,2-Dibromoethane	U		0.000634	0.00302	1	10/20/2018 00:35	WG1183157
Dibromomethane	U		0.00121	0.00603	1	10/20/2018 00:35	WG1183157
1,2-Dichlorobenzene	U		0.00175	0.00603	1	10/20/2018 00:35	WG1183157
1,3-Dichlorobenzene	U		0.00205	0.00603	1	10/20/2018 00:35	WG1183157
1,4-Dichlorobenzene	U		0.00238	0.00603	1	10/20/2018 00:35	WG1183157
Dichlorodifluoromethane	U		0.000987	0.00302	1	10/20/2018 00:35	WG1183157
1,1-Dichloroethane	U		0.000694	0.00302	1	10/20/2018 00:35	WG1183157
1,2-Dichloroethane	U		0.000573	0.00302	1	10/20/2018 00:35	WG1183157
1,1-Dichloroethene	0.00476 J		0.000603	0.00302	1	10/20/2018 00:35	WG1183157
cis-1,2-Dichloroethene	1.36		0.00833	0.0302	10	10/22/2018 21:43	WG1184604
trans-1,2-Dichloroethene	0.00231 J	J	0.00173	0.00603	1	10/20/2018 00:35	WG1183157
1,2-Dichloropropane	U		0.0153	0.0603	10	10/22/2018 21:43	WG1184604
1,1-Dichloropropene	U		0.000845	0.00302	1	10/20/2018 00:35	WG1183157
1,3-Dichloropropane	U		0.00211	0.00603	1	10/20/2018 00:35	WG1183157
cis-1,3-Dichloropropene	U		0.000818	0.00302	1	10/20/2018 00:35	WG1183157
trans-1,3-Dichloropropene	U		0.00185	0.00603	1	10/20/2018 00:35	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00169	0.00603	1	10/20/2018 00:35	WG1183157
2,2-Dichloropropane	U		0.000957	0.00302	1	10/20/2018 00:35	WG1183157
Di-isopropyl ether	U		0.000422	0.00121	1	10/20/2018 00:35	WG1183157
Ethylbenzene	U		0.000640	0.00302	1	10/20/2018 00:35	WG1183157
Hexachloro-1,3-butadiene	U UJ	J0	0.0153	0.0302	1	10/20/2018 00:35	WG1183157
2-Hexanone	U		0.0121	0.0302	1	10/20/2018 00:35	WG1183157
n-Hexane	U		0.00128	0.00603	1	10/20/2018 00:35	WG1183157
Iodomethane	U		0.00730	0.0151	1	10/20/2018 00:35	WG1183157
Isopropylbenzene	U		0.00104	0.00302	1	10/20/2018 00:35	WG1183157
p-Isopropyltoluene	U		0.00281	0.00603	1	10/20/2018 00:35	WG1183157
2-Butanone (MEK)	U UJ	J0	0.151	0.302	10	10/22/2018 21:43	WG1184604
Methylene Chloride	U		0.00801	0.0302	1	10/20/2018 00:35	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0302	1	10/20/2018 00:35	WG1183157

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B-252-19

Collected date/time: 10/15/18 14:43

SAMPLE RESULTS - 22

L1034970

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000356	0.00121	1	10/20/2018 00:35	WG1183157
Naphthalene	U		0.00377	0.0151	1	10/20/2018 00:35	WG1183157
n-Propylbenzene	U		0.00142	0.00603	1	10/20/2018 00:35	WG1183157
Styrene	U	UJ J0	0.00330	0.0151	1	10/20/2018 00:35	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000603	0.00302	1	10/20/2018 00:35	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000471	0.00302	1	10/20/2018 00:35	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000815	0.00302	1	10/20/2018 00:35	WG1183157
Tetrachloroethene	2.88		0.00845	0.0302	10	10/22/2018 21:43	WG1184604
Toluene	U		0.00151	0.00603	1	10/20/2018 00:35	WG1183157
1,2,3-Trichlorobenzene	U		0.000754	0.00302	1	10/20/2018 00:35	WG1183157
1,2,4-Trichlorobenzene	U		0.00582	0.0151	1	10/20/2018 00:35	WG1183157
1,1,1-Trichloroethane	U		0.000332	0.00302	1	10/20/2018 00:35	WG1183157
1,1,2-Trichloroethane	U		0.0107	0.0302	10	10/22/2018 21:43	WG1184604
Trichlorofluoromethane	U		0.000603	0.00302	1	10/20/2018 00:35	WG1183157
1,2,3-Trichloropropane	U		0.00616	0.0151	1	10/20/2018 00:35	WG1183157
1,2,4-Trimethylbenzene	U		0.00140	0.00603	1	10/20/2018 00:35	WG1183157
1,2,3-Trimethylbenzene	U		0.00139	0.00603	1	10/20/2018 00:35	WG1183157
1,3,5-Trimethylbenzene	U		0.00130	0.00603	1	10/20/2018 00:35	WG1183157
Vinyl acetate	U		0.00425	0.0151	1	10/20/2018 00:35	WG1183157
Vinyl chloride	0.138	J	0.000824	0.00302	1	10/20/2018 00:35	WG1183157
Xylenes, Total	U		0.00577	0.00785	1	10/20/2018 00:35	WG1183157
(S) Toluene-d8	*138*	J1		*75.0-131*		*10/20/2018 00:35*	WG1183157
(S) Toluene-d8	*99.2*			*75.0-131*		*10/22/2018 21:43*	WG1184604
(S) Dibromofluoromethane	*86.8*			*65.0-129*		*10/20/2018 00:35*	WG1183157
(S) Dibromofluoromethane	*117*			*65.0-129*		*10/22/2018 21:43*	WG1184604
(S) 4-Bromofluorobenzene	*77.7*			*67.0-138*		*10/20/2018 00:35*	WG1183157
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/22/2018 21:43*	WG1184604

Sample Narrative:

L1034970-22 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-22 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.0		1	10/22/2018 09:45	WG1183344

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0275	1	10/20/2018 00:55	WG1183157
Acrylonitrile	U		0.00209	0.0137	1	10/20/2018 00:55	WG1183157
Benzene	U		0.000439	0.00110	1	10/20/2018 00:55	WG1183157
Bromobenzene	U		0.00115	0.0137	1	10/20/2018 00:55	WG1183157
Bromodichloromethane	U		0.000866	0.00275	1	10/20/2018 00:55	WG1183157
Bromochloromethane	U		0.00124	0.00549	1	10/20/2018 00:55	WG1183157
Bromoform	U	UJ J0	0.00657	0.0275	1	10/20/2018 00:55	WG1183157
Bromomethane	U		0.00406	0.0137	1	10/20/2018 00:55	WG1183157
n-Butylbenzene	U		0.00422	0.0137	1	10/20/2018 00:55	WG1183157
sec-Butylbenzene	U		0.00278	0.0137	1	10/20/2018 00:55	WG1183157
tert-Butylbenzene	U		0.00170	0.00549	1	10/20/2018 00:55	WG1183157
Carbon disulfide	U	UJ J0	0.00446	0.0137	1	10/20/2018 00:55	WG1183157
Carbon tetrachloride	U		0.00119	0.00549	1	10/20/2018 00:55	WG1183157
Chlorobenzene	U		0.000629	0.00275	1	10/20/2018 00:55	WG1183157
Chlorodibromomethane	U		0.000494	0.00275	1	10/20/2018 00:55	WG1183157
Chloroethane	U		0.00119	0.00549	1	10/20/2018 00:55	WG1183157
Chloroform	U		0.000456	0.00275	1	10/20/2018 00:55	WG1183157
Chloromethane	U		0.00153	0.0137	1	10/20/2018 00:55	WG1183157
2-Chlorotoluene	U		0.00101	0.00275	1	10/20/2018 00:55	WG1183157
4-Chlorotoluene	U		0.00124	0.00549	1	10/20/2018 00:55	WG1183157
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00560	0.0275	1	10/20/2018 00:55	WG1183157
1,2-Dibromoethane	U		0.000577	0.00275	1	10/20/2018 00:55	WG1183157
Dibromomethane	U		0.00110	0.00549	1	10/20/2018 00:55	WG1183157
1,2-Dichlorobenzene	U		0.00159	0.00549	1	10/20/2018 00:55	WG1183157
1,3-Dichlorobenzene	U		0.00187	0.00549	1	10/20/2018 00:55	WG1183157
1,4-Dichlorobenzene	U		0.00216	0.00549	1	10/20/2018 00:55	WG1183157
Dichlorodifluoromethane	U		0.000898	0.00275	1	10/20/2018 00:55	WG1183157
1,1-Dichloroethane	U		0.000632	0.00275	1	10/20/2018 00:55	WG1183157
1,2-Dichloroethane	U		0.000522	0.00275	1	10/20/2018 00:55	WG1183157
1,1-Dichloroethene	U		0.000549	0.00275	1	10/20/2018 00:55	WG1183157
cis-1,2-Dichloroethene	0.207		0.000758	0.00275	1	10/20/2018 00:55	WG1183157
trans-1,2-Dichloroethene	U		0.00157	0.00549	1	10/20/2018 00:55	WG1183157
1,2-Dichloropropane	U		0.00558	0.0220	4	10/22/2018 22:03	WG1184604
1,1-Dichloropropene	U		0.000769	0.00275	1	10/20/2018 00:55	WG1183157
1,3-Dichloropropane	U		0.00192	0.00549	1	10/20/2018 00:55	WG1183157
cis-1,3-Dichloropropene	U		0.000745	0.00275	1	10/20/2018 00:55	WG1183157
trans-1,3-Dichloropropene	U		0.00168	0.00549	1	10/20/2018 00:55	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	10/20/2018 00:55	WG1183157
2,2-Dichloropropane	U		0.000871	0.00275	1	10/20/2018 00:55	WG1183157
Di-isopropyl ether	U		0.000384	0.00110	1	10/20/2018 00:55	WG1183157
Ethylbenzene	U		0.000582	0.00275	1	10/20/2018 00:55	WG1183157
Hexachloro-1,3-butadiene	U	UJ J0	0.0139	0.0275	1	10/20/2018 00:55	WG1183157
2-Hexanone	U		0.0110	0.0275	1	10/20/2018 00:55	WG1183157
n-Hexane	U		0.00116	0.00549	1	10/20/2018 00:55	WG1183157
Iodomethane	U		0.00665	0.0137	1	10/20/2018 00:55	WG1183157
Isopropylbenzene	U		0.000948	0.00275	1	10/20/2018 00:55	WG1183157
p-Isopropyltoluene	U		0.00256	0.00549	1	10/20/2018 00:55	WG1183157
2-Butanone (MEK)	U	UJ J0	0.0549	0.110	4	10/22/2018 22:03	WG1184604
Methylene Chloride	U		0.00729	0.0275	1	10/20/2018 00:55	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/20/2018 00:55	WG1183157

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	10/20/2018 00:55	WG1183157
Naphthalene	U		0.00343	0.0137	1	10/20/2018 00:55	WG1183157
n-Propylbenzene	U		0.00130	0.00549	1	10/20/2018 00:55	WG1183157
Styrene	U UJ	J0	0.00300	0.0137	1	10/20/2018 00:55	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000549	0.00275	1	10/20/2018 00:55	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000428	0.00275	1	10/20/2018 00:55	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000741	0.00275	1	10/20/2018 00:55	WG1183157
Tetrachloroethene	1.35		0.00308	0.0110	4	10/22/2018 22:03	WG1184604
Toluene	U		0.00137	0.00549	1	10/20/2018 00:55	WG1183157
1,2,3-Trichlorobenzene	U		0.000686	0.00275	1	10/20/2018 00:55	WG1183157
1,2,4-Trichlorobenzene	U		0.00529	0.0137	1	10/20/2018 00:55	WG1183157
1,1,1-Trichloroethane	U		0.000302	0.00275	1	10/20/2018 00:55	WG1183157
1,1,2-Trichloroethane	U		0.00388	0.0110	4	10/22/2018 22:03	WG1184604
Trichloroethene	0.266		0.000439	0.00110	1	10/20/2018 00:55	WG1183157
Trichlorofluoromethane	U		0.000549	0.00275	1	10/20/2018 00:55	WG1183157
1,2,3-Trichloropropane	U		0.00560	0.0137	1	10/20/2018 00:55	WG1183157
1,2,4-Trimethylbenzene	U		0.00127	0.00549	1	10/20/2018 00:55	WG1183157
1,2,3-Trimethylbenzene	U		0.00126	0.00549	1	10/20/2018 00:55	WG1183157
1,3,5-Trimethylbenzene	U		0.00119	0.00549	1	10/20/2018 00:55	WG1183157
Vinyl acetate	U		0.00387	0.0137	1	10/20/2018 00:55	WG1183157
Vinyl chloride	0.00602		0.000750	0.00275	1	10/20/2018 00:55	WG1183157
Xylenes, Total	U		0.00525	0.00714	1	10/20/2018 00:55	WG1183157
(S) Toluene-d8	*122*			*75.0-131*		*10/20/2018 00:55*	WG1183157
(S) Toluene-d8	*98.9*			*75.0-131*		*10/22/2018 22:03*	WG1184604
(S) Dibromofluoromethane	*91.6*			*65.0-129*		*10/20/2018 00:55*	WG1183157
(S) Dibromofluoromethane	*117*			*65.0-129*		*10/22/2018 22:03*	WG1184604
(S) 4-Bromofluorobenzene	*93.0*			*67.0-138*		*10/20/2018 00:55*	WG1183157
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/22/2018 22:03*	WG1184604

Sample Narrative:

L1034970-23 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-23 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.4		1	10/16/2018 14:25	WG1181703

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		2.75	5.01	175	10/17/2018 12:52	WG1182096
Acrylonitrile	U		0.00217	0.0143	1	10/16/2018 20:00	WG1181654
Benzene	U		0.000458	0.00114	1	10/16/2018 20:00	WG1181654
Bromobenzene	U		0.00120	0.0143	1	10/16/2018 20:00	WG1181654
Bromodichloromethane	U		0.000902	0.00286	1	10/16/2018 20:00	WG1181654
Bromochloromethane	U		0.00129	0.00572	1	10/16/2018 20:00	WG1181654
Bromoform	U		0.00684	0.0286	1	10/16/2018 20:00	WG1181654
Bromomethane	U		0.00423	0.0143	1	10/16/2018 20:00	WG1181654
n-Butylbenzene	U		0.00439	0.0143	1	10/16/2018 20:00	WG1181654
sec-Butylbenzene	U		0.00290	0.0143	1	10/16/2018 20:00	WG1181654
tert-Butylbenzene	U		0.00177	0.00572	1	10/16/2018 20:00	WG1181654
Carbon disulfide	U		0.00465	0.0143	1	10/16/2018 20:00	WG1181654
Carbon tetrachloride	U		0.00124	0.00572	1	10/16/2018 20:00	WG1181654
Chlorobenzene	U		0.000656	0.00286	1	10/16/2018 20:00	WG1181654
Chlorodibromomethane	U		0.000515	0.00286	1	10/16/2018 20:00	WG1181654
Chloroethane	U		0.00124	0.00572	1	10/16/2018 20:00	WG1181654
Chloroform	U		0.000475	0.00286	1	10/16/2018 20:00	WG1181654
Chloromethane	U		0.00159	0.0143	1	10/16/2018 20:00	WG1181654
2-Chlorotoluene	U		0.00105	0.00286	1	10/16/2018 20:00	WG1181654
4-Chlorotoluene	U		0.00129	0.00572	1	10/16/2018 20:00	WG1181654
1,2-Dibromo-3-Chloropropane	U		0.00584	0.0286	1	10/16/2018 20:00	WG1181654
1,2-Dibromoethane	U		0.000601	0.00286	1	10/16/2018 20:00	WG1181654
Dibromomethane	U	U J4	0.00114	0.00572	1	10/16/2018 20:00	WG1181654
1,2-Dichlorobenzene	U		0.00166	0.00572	1	10/16/2018 20:00	WG1181654
1,3-Dichlorobenzene	U		0.00195	0.00572	1	10/16/2018 20:00	WG1181654
1,4-Dichlorobenzene	U		0.00225	0.00572	1	10/16/2018 20:00	WG1181654
Dichlorodifluoromethane	U		0.000936	0.00286	1	10/16/2018 20:00	WG1181654
1,1-Dichloroethane	U		0.000658	0.00286	1	10/16/2018 20:00	WG1181654
1,2-Dichloroethane	U		0.000544	0.00286	1	10/16/2018 20:00	WG1181654
1,1-Dichloroethene	0.00436		0.000572	0.00286	1	10/16/2018 20:00	WG1181654
cis-1,2-Dichloroethene	0.484		0.000790	0.00286	1	10/16/2018 20:00	WG1181654
trans-1,2-Dichloroethene	0.00656		0.00164	0.00572	1	10/16/2018 20:00	WG1181654
1,2-Dichloropropane	U		0.00145	0.00572	1	10/16/2018 20:00	WG1181654
1,1-Dichloropropene	U		0.000801	0.00286	1	10/16/2018 20:00	WG1181654
1,3-Dichloropropane	U		0.00200	0.00572	1	10/16/2018 20:00	WG1181654
cis-1,3-Dichloropropene	U		0.000776	0.00286	1	10/16/2018 20:00	WG1181654
trans-1,3-Dichloropropene	U		0.00175	0.00572	1	10/16/2018 20:00	WG1181654
trans-1,4-Dichloro-2-butene	U		0.00160	0.00572	1	10/16/2018 20:00	WG1181654
2,2-Dichloropropane	U		0.000907	0.00286	1	10/16/2018 20:00	WG1181654
Di-isopropyl ether	U		0.000400	0.00114	1	10/16/2018 20:00	WG1181654
Ethylbenzene	U		0.000606	0.00286	1	10/16/2018 20:00	WG1181654
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	10/16/2018 20:00	WG1181654
2-Hexanone	U		0.0114	0.0286	1	10/16/2018 20:00	WG1181654
n-Hexane	U		0.00121	0.00572	1	10/16/2018 20:00	WG1181654
Iodomethane	U		0.00692	0.0143	1	10/16/2018 20:00	WG1181654
Isopropylbenzene	U		0.000988	0.00286	1	10/16/2018 20:00	WG1181654
p-Isopropyltoluene	U		0.00267	0.00572	1	10/16/2018 20:00	WG1181654
2-Butanone (MEK)	U		0.0143	0.0286	1	10/16/2018 20:00	WG1181654
Methylene Chloride	U		0.00760	0.0286	1	10/16/2018 20:00	WG1181654
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	10/16/2018 20:00	WG1181654

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000338	0.00114	1	10/16/2018 20:00	WG1181654
Naphthalene	U		0.00357	0.0143	1	10/16/2018 20:00	WG1181654
n-Propylbenzene	U		0.00135	0.00572	1	10/16/2018 20:00	WG1181654
Styrene	U		0.00312	0.0143	1	10/16/2018 20:00	WG1181654
1,1,1,2-Tetrachloroethane	U		0.000572	0.00286	1	10/16/2018 20:00	WG1181654
1,1,2,2-Tetrachloroethane	U U	J4	0.000446	0.00286	1	10/16/2018 20:00	WG1181654
1,1,2-Trichlorotrifluoroethane	U		0.000772	0.00286	1	10/16/2018 20:00	WG1181654
Tetrachloroethene	1.99		0.140	0.501	175	10/17/2018 12:52	WG1182096
Toluene	U		0.00143	0.00572	1	10/16/2018 20:00	WG1181654
1,2,3-Trichlorobenzene	U		0.000715	0.00286	1	10/16/2018 20:00	WG1181654
1,2,4-Trichlorobenzene	U		0.00552	0.0143	1	10/16/2018 20:00	WG1181654
1,1,1-Trichloroethane	U		0.000315	0.00286	1	10/16/2018 20:00	WG1181654
1,1,2-Trichloroethane	U U	J4	0.00101	0.00286	1	10/16/2018 20:00	WG1181654
Trichloroethene	0.483		0.000458	0.00114	1	10/16/2018 20:00	WG1181654
Trichlorofluoromethane	U		0.000572	0.00286	1	10/16/2018 20:00	WG1181654
1,2,3-Trichloropropane	U		0.00584	0.0143	1	10/16/2018 20:00	WG1181654
1,2,4-Trimethylbenzene	U		0.00133	0.00572	1	10/16/2018 20:00	WG1181654
1,2,3-Trimethylbenzene	U		0.00132	0.00572	1	10/16/2018 20:00	WG1181654
1,3,5-Trimethylbenzene	U		0.00124	0.00572	1	10/16/2018 20:00	WG1181654
Vinyl acetate	U		0.00403	0.0143	1	10/16/2018 20:00	WG1181654
Vinyl chloride	0.00634		0.000782	0.00286	1	10/16/2018 20:00	WG1181654
Xylenes, Total	U		0.00547	0.00744	1	10/16/2018 20:00	WG1181654
(S) Toluene-d8	*119*			*75.0-131*		*10/16/2018 20:00*	WG1181654
(S) Toluene-d8	*98.6*			*75.0-131*		*10/17/2018 12:52*	WG1182096
(S) Dibromofluoromethane	*78.1*			*65.0-129*		*10/16/2018 20:00*	WG1181654
(S) Dibromofluoromethane	*118*			*65.0-129*		*10/17/2018 12:52*	WG1182096
(S) 4-Bromofluorobenzene	*95.2*			*67.0-138*		*10/16/2018 20:00*	WG1181654
(S) 4-Bromofluorobenzene	*118*			*67.0-138*		*10/17/2018 12:52*	WG1182096

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.59	J	1.05	25.0	1	10/16/2018 13:36	WG1181551
Acrylonitrile	U		0.873	5.00	1	10/16/2018 13:36	WG1181551
Benzene	U		0.0896	0.500	1	10/16/2018 13:36	WG1181551
Bromobenzene	U		0.133	0.500	1	10/16/2018 13:36	WG1181551
Bromodichloromethane	U		0.0800	0.500	1	10/16/2018 13:36	WG1181551
Bromochloromethane	U		0.145	0.500	1	10/16/2018 13:36	WG1181551
Bromoform	U		0.186	0.500	1	10/16/2018 13:36	WG1181551
Bromomethane	U		0.157	2.50	1	10/16/2018 13:36	WG1181551
n-Butylbenzene	U		0.143	0.500	1	10/16/2018 13:36	WG1181551
sec-Butylbenzene	U		0.134	0.500	1	10/16/2018 13:36	WG1181551
tert-Butylbenzene	U		0.183	0.500	1	10/16/2018 13:36	WG1181551
Carbon disulfide	U		0.101	0.500	1	10/16/2018 13:36	WG1181551
Carbon tetrachloride	U		0.159	0.500	1	10/16/2018 13:36	WG1181551
Chlorobenzene	U		0.140	0.500	1	10/16/2018 13:36	WG1181551
Chlorodibromomethane	U		0.128	0.500	1	10/16/2018 13:36	WG1181551
Chloroethane	U		0.141	2.50	1	10/16/2018 13:36	WG1181551
Chloroform	U		0.0860	0.500	1	10/16/2018 13:36	WG1181551
Chloromethane	U		0.153	1.25	1	10/16/2018 13:36	WG1181551
2-Chlorotoluene	U		0.111	0.500	1	10/16/2018 13:36	WG1181551
4-Chlorotoluene	U		0.0972	0.500	1	10/16/2018 13:36	WG1181551
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/16/2018 13:36	WG1181551
1,2-Dibromoethane	U		0.193	0.500	1	10/16/2018 13:36	WG1181551
Dibromomethane	U		0.117	0.500	1	10/16/2018 13:36	WG1181551
1,2-Dichlorobenzene	U		0.101	0.500	1	10/16/2018 13:36	WG1181551
1,3-Dichlorobenzene	U		0.130	0.500	1	10/16/2018 13:36	WG1181551
1,4-Dichlorobenzene	U		0.121	0.500	1	10/16/2018 13:36	WG1181551
Dichlorodifluoromethane	U		0.127	2.50	1	10/16/2018 13:36	WG1181551
1,1-Dichloroethane	U		0.114	0.500	1	10/16/2018 13:36	WG1181551
1,2-Dichloroethane	U		0.108	0.500	1	10/16/2018 13:36	WG1181551
1,1-Dichloroethene	U		0.188	0.500	1	10/16/2018 13:36	WG1181551
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/16/2018 13:36	WG1181551
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/16/2018 13:36	WG1181551
1,2-Dichloropropane	U		0.190	0.500	1	10/16/2018 13:36	WG1181551
1,1-Dichloropropene	U		0.128	0.500	1	10/16/2018 13:36	WG1181551
1,3-Dichloropropane	U		0.147	1.00	1	10/16/2018 13:36	WG1181551
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/16/2018 13:36	WG1181551
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/16/2018 13:36	WG1181551
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/16/2018 13:36	WG1181551
2,2-Dichloropropane	U		0.0929	0.500	1	10/16/2018 13:36	WG1181551
Di-isopropyl ether	U		0.0924	0.500	1	10/16/2018 13:36	WG1181551
Ethylbenzene	U		0.158	0.500	1	10/16/2018 13:36	WG1181551
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/16/2018 13:36	WG1181551
2-Hexanone	U		0.757	5.00	1	10/16/2018 13:36	WG1181551
n-Hexane	U		0.305	5.00	1	10/16/2018 13:36	WG1181551
Iodomethane	U		0.377	10.0	1	10/16/2018 13:36	WG1181551
Isopropylbenzene	U		0.126	0.500	1	10/16/2018 13:36	WG1181551
p-Isopropyltoluene	U		0.138	0.500	1	10/16/2018 13:36	WG1181551
2-Butanone (MEK)	U		1.28	5.00	1	10/16/2018 13:36	WG1181551
Methylene Chloride	U		1.07	2.50	1	10/16/2018 13:36	WG1181551
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/16/2018 13:36	WG1181551
Methyl tert-butyl ether	U		0.102	0.500	1	10/16/2018 13:36	WG1181551
Naphthalene	U		0.174	2.50	1	10/16/2018 13:36	WG1181551
n-Propylbenzene	U		0.162	0.500	1	10/16/2018 13:36	WG1181551
Styrene	U		0.117	0.500	1	10/16/2018 13:36	WG1181551
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/16/2018 13:36	WG1181551
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/16/2018 13:36	WG1181551

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Collected date/time: 10/15/18 00:00

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/16/2018 13:36	WG1181551
Tetrachloroethene	U		0.199	0.500	1	10/16/2018 13:36	WG1181551
Toluene	U		0.412	0.500	1	10/16/2018 13:36	WG1181551
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/16/2018 13:36	WG1181551
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/16/2018 13:36	WG1181551
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/16/2018 13:36	WG1181551
1,1,2-Trichloroethane	U		0.186	0.500	1	10/16/2018 13:36	WG1181551
Trichloroethene	U		0.153	0.500	1	10/16/2018 13:36	WG1181551
Trichlorofluoromethane	U		0.130	2.50	1	10/16/2018 13:36	WG1181551
1,2,3-Trichloropropane	U		0.247	2.50	1	10/16/2018 13:36	WG1181551
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/16/2018 13:36	WG1181551
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/16/2018 13:36	WG1181551
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/16/2018 13:36	WG1181551
Vinyl acetate	U		0.645	5.00	1	10/16/2018 13:36	WG1181551
Vinyl chloride	U		0.118	0.500	1	10/16/2018 13:36	WG1181551
Xylenes, Total	U		0.316	1.50	1	10/16/2018 13:36	WG1181551
(S) Toluene-d8	*97.5*			*80.0-120*		*10/16/2018 13:36*	WG1181551
(S) Dibromofluoromethane	*107*			*75.0-120*		*10/16/2018 13:36*	WG1181551
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*10/16/2018 13:36*	WG1181551

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.7		1	10/22/2018 11:48	WG1184402

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0149	0.0273	1	10/23/2018 01:18	WG1184696
Acrylonitrile	U		0.00207	0.0136	1	10/19/2018 14:52	WG1183540
Benzene	U		0.000436	0.00109	1	10/19/2018 14:52	WG1183540
Bromobenzene	U		0.00115	0.0136	1	10/19/2018 14:52	WG1183540
Bromodichloromethane	U		0.000859	0.00273	1	10/19/2018 14:52	WG1183540
Bromochloromethane	U		0.00123	0.00545	1	10/19/2018 14:52	WG1183540
Bromoform	U		0.00652	0.0273	1	10/19/2018 14:52	WG1183540
Bromomethane	U		0.00403	0.0136	1	10/19/2018 14:52	WG1183540
n-Butylbenzene	U		0.00419	0.0136	1	10/19/2018 14:52	WG1183540
sec-Butylbenzene	U		0.00276	0.0136	1	10/19/2018 14:52	WG1183540
tert-Butylbenzene	U		0.00169	0.00545	1	10/19/2018 14:52	WG1183540
Carbon disulfide	U UJ	J0	0.00443	0.0136	1	10/19/2018 14:52	WG1183540
Carbon tetrachloride	U		0.00118	0.00545	1	10/19/2018 14:52	WG1183540
Chlorobenzene	U		0.000625	0.00273	1	10/19/2018 14:52	WG1183540
Chlorodibromomethane	U		0.000491	0.00273	1	10/19/2018 14:52	WG1183540
Chloroethane	U		0.00118	0.00545	1	10/19/2018 14:52	WG1183540
Chloroform	U		0.000453	0.00273	1	10/19/2018 14:52	WG1183540
Chloromethane	U		0.00152	0.0136	1	10/19/2018 14:52	WG1183540
2-Chlorotoluene	U		0.00100	0.00273	1	10/19/2018 14:52	WG1183540
4-Chlorotoluene	U		0.00123	0.00545	1	10/19/2018 14:52	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	10/19/2018 14:52	WG1183540
1,2-Dibromoethane	U		0.000573	0.00273	1	10/19/2018 14:52	WG1183540
Dibromomethane	U		0.00109	0.00545	1	10/19/2018 14:52	WG1183540
1,2-Dichlorobenzene	U		0.00158	0.00545	1	10/19/2018 14:52	WG1183540
1,3-Dichlorobenzene	U		0.00185	0.00545	1	10/19/2018 14:52	WG1183540
1,4-Dichlorobenzene	U		0.00215	0.00545	1	10/19/2018 14:52	WG1183540
Dichlorodifluoromethane	U U	J4	0.000892	0.00273	1	10/23/2018 01:18	WG1184696
1,1-Dichloroethane	U		0.000627	0.00273	1	10/19/2018 14:52	WG1183540
1,2-Dichloroethane	U		0.000518	0.00273	1	10/19/2018 14:52	WG1183540
1,1-Dichloroethene	U		0.000545	0.00273	1	10/19/2018 14:52	WG1183540
cis-1,2-Dichloroethene	0.533		0.000752	0.00273	1	10/19/2018 14:52	WG1183540
trans-1,2-Dichloroethene	0.0138		0.00156	0.00545	1	10/19/2018 14:52	WG1183540
1,2-Dichloropropane	U		0.00138	0.00545	1	10/19/2018 14:52	WG1183540
1,1-Dichloropropene	U		0.000763	0.00273	1	10/19/2018 14:52	WG1183540
1,3-Dichloropropane	U		0.00191	0.00545	1	10/19/2018 14:52	WG1183540
cis-1,3-Dichloropropene	U		0.000739	0.00273	1	10/19/2018 14:52	WG1183540
trans-1,3-Dichloropropene	U U	J4	0.00167	0.00545	1	10/19/2018 14:52	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00153	0.00545	1	10/19/2018 14:52	WG1183540
2,2-Dichloropropane	U		0.000865	0.00273	1	10/19/2018 14:52	WG1183540
Di-isopropyl ether	U		0.000382	0.00109	1	10/19/2018 14:52	WG1183540
Ethylbenzene	0.000590 J	J J0	0.000578	0.00273	1	10/19/2018 14:52	WG1183540
Hexachloro-1,3-butadiene	U		0.0138	0.0273	1	10/19/2018 14:52	WG1183540
2-Hexanone	U		0.0109	0.0273	1	10/19/2018 14:52	WG1183540
n-Hexane	0.00621 J	J0 J4	0.00116	0.00545	1	10/19/2018 14:52	WG1183540
Iodomethane	U		0.00660	0.0136	1	10/19/2018 14:52	WG1183540
Isopropylbenzene	U		0.000941	0.00273	1	10/19/2018 14:52	WG1183540
p-Isopropyltoluene	U		0.00254	0.00545	1	10/19/2018 14:52	WG1183540
2-Butanone (MEK)	0.0327 J	B J4	0.0136	0.0273	1	10/19/2018 14:52	WG1183540
Methylene Chloride	U		0.00724	0.0273	1	10/19/2018 14:52	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/19/2018 14:52	WG1183540

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	10/19/2018 14:52	WG1183540
Naphthalene	U		0.00340	0.0136	1	10/19/2018 14:52	WG1183540
n-Propylbenzene	U		0.00129	0.00545	1	10/19/2018 14:52	WG1183540
Styrene	U		0.00298	0.0136	1	10/19/2018 14:52	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000545	0.00273	1	10/19/2018 14:52	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000425	0.00273	1	10/23/2018 01:18	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000736	0.00273	1	10/23/2018 01:18	WG1184696
Tetrachloroethene	0.288		0.000763	0.00273	1	10/19/2018 14:52	WG1183540
Toluene	0.00259 J	J	0.00136	0.00545	1	10/19/2018 14:52	WG1183540
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	10/23/2018 01:18	WG1184696
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	10/19/2018 14:52	WG1183540
1,1,1-Trichloroethane	U		0.000300	0.00273	1	10/19/2018 14:52	WG1183540
1,1,2-Trichloroethane	U		0.000963	0.00273	1	10/19/2018 14:52	WG1183540
Trichloroethene	0.0519		0.000436	0.00109	1	10/19/2018 14:52	WG1183540
Trichlorofluoromethane	U		0.000545	0.00273	1	10/19/2018 14:52	WG1183540
1,2,3-Trichloropropane	U		0.00556	0.0136	1	10/19/2018 14:52	WG1183540
1,2,4-Trimethylbenzene	0.00182 J	J	0.00126	0.00545	1	10/19/2018 14:52	WG1183540
1,2,3-Trimethylbenzene	U		0.00125	0.00545	1	10/19/2018 14:52	WG1183540
1,3,5-Trimethylbenzene	U		0.00118	0.00545	1	10/19/2018 14:52	WG1183540
Vinyl acetate	U		0.00384	0.0136	1	10/19/2018 14:52	WG1183540
Vinyl chloride	0.358		0.000745	0.00273	1	10/23/2018 01:18	WG1184696
Xylenes, Total	U		0.00521	0.00709	1	10/19/2018 14:52	WG1183540
(S) Toluene-d8	*93.2*			*75.0-131*		*10/19/2018 14:52*	WG1183540
(S) Toluene-d8	*88.5*			*75.0-131*		*10/23/2018 01:18*	WG1184696
(S) Dibromofluoromethane	*95.4*			*65.0-129*		*10/19/2018 14:52*	WG1183540
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/23/2018 01:18*	WG1184696
(S) 4-Bromofluorobenzene	*88.7*			*67.0-138*		*10/19/2018 14:52*	WG1183540
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/23/2018 01:18*	WG1184696

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.5		1	10/22/2018 11:48	WG1184402

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			1.32	2.40	80	10/23/2018 05:38	WG1184696
Acrylonitrile	U			0.00228	0.0150	1	10/19/2018 15:10	WG1183540
Benzene	U			0.000479	0.00120	1	10/19/2018 15:10	WG1183540
Bromobenzene	U			0.00126	0.0150	1	10/19/2018 15:10	WG1183540
Bromodichloromethane	U			0.000944	0.00299	1	10/19/2018 15:10	WG1183540
Bromochloromethane	U			0.00135	0.00599	1	10/19/2018 15:10	WG1183540
Bromoform	U			0.00716	0.0299	1	10/19/2018 15:10	WG1183540
Bromomethane	U			0.00443	0.0150	1	10/19/2018 15:10	WG1183540
n-Butylbenzene	U			0.00460	0.0150	1	10/19/2018 15:10	WG1183540
sec-Butylbenzene	U			0.00303	0.0150	1	10/19/2018 15:10	WG1183540
tert-Butylbenzene	U			0.00186	0.00599	1	10/19/2018 15:10	WG1183540
Carbon disulfide	U	UJ	J0	0.00486	0.0150	1	10/19/2018 15:10	WG1183540
Carbon tetrachloride	U			0.00129	0.00599	1	10/19/2018 15:10	WG1183540
Chlorobenzene	U			0.000686	0.00299	1	10/19/2018 15:10	WG1183540
Chlorodibromomethane	U			0.000539	0.00299	1	10/19/2018 15:10	WG1183540
Chloroethane	U			0.00129	0.00599	1	10/19/2018 15:10	WG1183540
Chloroform	U			0.000497	0.00299	1	10/19/2018 15:10	WG1183540
Chloromethane	U			0.00166	0.0150	1	10/19/2018 15:10	WG1183540
2-Chlorotoluene	U			0.00110	0.00299	1	10/19/2018 15:10	WG1183540
4-Chlorotoluene	U			0.00135	0.00599	1	10/19/2018 15:10	WG1183540
1,2-Dibromo-3-Chloropropane	U			0.00611	0.0299	1	10/19/2018 15:10	WG1183540
1,2-Dibromoethane	U			0.000629	0.00299	1	10/19/2018 15:10	WG1183540
Dibromomethane	U			0.00120	0.00599	1	10/19/2018 15:10	WG1183540
1,2-Dichlorobenzene	U			0.00174	0.00599	1	10/19/2018 15:10	WG1183540
1,3-Dichlorobenzene	U			0.00204	0.00599	1	10/19/2018 15:10	WG1183540
1,4-Dichlorobenzene	U			0.00236	0.00599	1	10/19/2018 15:10	WG1183540
Dichlorodifluoromethane	U	U	J4	0.0783	0.240	80	10/23/2018 05:38	WG1184696
1,1-Dichloroethane	U			0.000689	0.00299	1	10/19/2018 15:10	WG1183540
1,2-Dichloroethane	U			0.000569	0.00299	1	10/19/2018 15:10	WG1183540
1,1-Dichloroethene	U			0.000599	0.00299	1	10/19/2018 15:10	WG1183540
cis-1,2-Dichloroethene	0.0425			0.000826	0.00299	1	10/19/2018 15:10	WG1183540
trans-1,2-Dichloroethene	U			0.00171	0.00599	1	10/19/2018 15:10	WG1183540
1,2-Dichloropropane	U			0.00152	0.00599	1	10/19/2018 15:10	WG1183540
1,1-Dichloropropene	U			0.000838	0.00299	1	10/19/2018 15:10	WG1183540
1,3-Dichloropropane	U			0.00210	0.00599	1	10/19/2018 15:10	WG1183540
cis-1,3-Dichloropropene	U			0.000812	0.00299	1	10/19/2018 15:10	WG1183540
trans-1,3-Dichloropropene	U	U	J4	0.00183	0.00599	1	10/19/2018 15:10	WG1183540
trans-1,4-Dichloro-2-butene	U			0.00168	0.00599	1	10/19/2018 15:10	WG1183540
2,2-Dichloropropane	U			0.000950	0.00299	1	10/19/2018 15:10	WG1183540
Di-isopropyl ether	U			0.000419	0.00120	1	10/19/2018 15:10	WG1183540
Ethylbenzene	U	UJ	J0	0.000635	0.00299	1	10/19/2018 15:10	WG1183540
Hexachloro-1,3-butadiene	U			0.0152	0.0299	1	10/19/2018 15:10	WG1183540
2-Hexanone	U			0.0120	0.0299	1	10/19/2018 15:10	WG1183540
n-Hexane	U	UJ	J0 J4	0.00127	0.00599	1	10/19/2018 15:10	WG1183540
Iodomethane	U			0.00724	0.0150	1	10/19/2018 15:10	WG1183540
Isopropylbenzene	U			0.00103	0.00299	1	10/19/2018 15:10	WG1183540
p-Isopropyltoluene	U			0.00279	0.00599	1	10/19/2018 15:10	WG1183540
2-Butanone (MEK)	0.0513	J	B J4	0.0150	0.0299	1	10/19/2018 15:10	WG1183540
Methylene Chloride	U			0.00795	0.0299	1	10/19/2018 15:10	WG1183540
4-Methyl-2-pentanone (MIBK)	U			0.0120	0.0299	1	10/19/2018 15:10	WG1183540

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1	10/19/2018 15:10	WG1183540
Naphthalene	U		0.00374	0.0150	1	10/19/2018 15:10	WG1183540
n-Propylbenzene	U		0.00141	0.00599	1	10/19/2018 15:10	WG1183540
Styrene	U		0.00327	0.0150	1	10/19/2018 15:10	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000599	0.00299	1	10/19/2018 15:10	WG1183540
1,1,2,2-Tetrachloroethane	U		0.0374	0.240	80	10/23/2018 05:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.0647	0.240	80	10/23/2018 05:38	WG1184696
Tetrachloroethene	9.35		0.0671	0.240	80	10/23/2018 05:38	WG1184696
Toluene	U		0.00150	0.00599	1	10/19/2018 15:10	WG1183540
1,2,3-Trichlorobenzene	U		0.0599	0.240	80	10/23/2018 05:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00577	0.0150	1	10/19/2018 15:10	WG1183540
1,1,1-Trichloroethane	U		0.000329	0.00299	1	10/19/2018 15:10	WG1183540
1,1,2-Trichloroethane	U		0.00106	0.00299	1	10/19/2018 15:10	WG1183540
Trichloroethene	0.0662		0.000479	0.00120	1	10/19/2018 15:10	WG1183540
Trichlorofluoromethane	U		0.000599	0.00299	1	10/19/2018 15:10	WG1183540
1,2,3-Trichloropropane	U		0.00611	0.0150	1	10/19/2018 15:10	WG1183540
1,2,4-Trimethylbenzene	U		0.00139	0.00599	1	10/19/2018 15:10	WG1183540
1,2,3-Trimethylbenzene	U		0.00138	0.00599	1	10/19/2018 15:10	WG1183540
1,3,5-Trimethylbenzene	U		0.00129	0.00599	1	10/19/2018 15:10	WG1183540
Vinyl acetate	U		0.00422	0.0150	1	10/19/2018 15:10	WG1183540
Vinyl chloride	U		0.0654	0.240	80	10/23/2018 05:38	WG1184696
Xylenes, Total	U		0.00572	0.00778	1	10/19/2018 15:10	WG1183540
(S) Toluene-d8	*110*			*75.0-131*		*10/19/2018 15:10*	WG1183540
(S) Toluene-d8	*98.3*			*75.0-131*		*10/23/2018 05:38*	WG1184696
(S) Dibromofluoromethane	*93.6*			*65.0-129*		*10/19/2018 15:10*	WG1183540
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/23/2018 05:38*	WG1184696
(S) 4-Bromofluorobenzene	*88.9*			*67.0-138*		*10/19/2018 15:10*	WG1183540
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/23/2018 05:38*	WG1184696

Sample Narrative:

L1035515-02 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-02 WG1184696, WG1183540: Not all compounds reportable from lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.1		1	10/22/2018 11:24	WG1184403

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.125	0.227	8	10/23/2018 05:58	WG1184696
Acrylonitrile	U			0.00216	0.0142	1	10/19/2018 15:29	WG1183540
Benzene	U			0.000454	0.00114	1	10/19/2018 15:29	WG1183540
Bromobenzene	U			0.00119	0.0142	1	10/19/2018 15:29	WG1183540
Bromodichloromethane	U			0.000895	0.00284	1	10/19/2018 15:29	WG1183540
Bromochloromethane	U			0.00128	0.00568	1	10/19/2018 15:29	WG1183540
Bromoform	U			0.00679	0.0284	1	10/19/2018 15:29	WG1183540
Bromomethane	U			0.00420	0.0142	1	10/19/2018 15:29	WG1183540
n-Butylbenzene	U			0.00436	0.0142	1	10/19/2018 15:29	WG1183540
sec-Butylbenzene	U			0.00287	0.0142	1	10/19/2018 15:29	WG1183540
tert-Butylbenzene	U			0.00176	0.00568	1	10/19/2018 15:29	WG1183540
Carbon disulfide	U	UJ	J0	0.00461	0.0142	1	10/19/2018 15:29	WG1183540
Carbon tetrachloride	U			0.00123	0.00568	1	10/19/2018 15:29	WG1183540
Chlorobenzene	U			0.000651	0.00284	1	10/19/2018 15:29	WG1183540
Chlorodibromomethane	U			0.000511	0.00284	1	10/19/2018 15:29	WG1183540
Chloroethane	U			0.00123	0.00568	1	10/19/2018 15:29	WG1183540
Chloroform	U			0.000471	0.00284	1	10/19/2018 15:29	WG1183540
Chloromethane	U			0.00158	0.0142	1	10/19/2018 15:29	WG1183540
2-Chlorotoluene	U			0.00104	0.00284	1	10/19/2018 15:29	WG1183540
4-Chlorotoluene	U			0.00128	0.00568	1	10/19/2018 15:29	WG1183540
1,2-Dibromo-3-Chloropropane	U			0.00579	0.0284	1	10/19/2018 15:29	WG1183540
1,2-Dibromoethane	U			0.000596	0.00284	1	10/19/2018 15:29	WG1183540
Dibromomethane	U			0.00114	0.00568	1	10/19/2018 15:29	WG1183540
1,2-Dichlorobenzene	U			0.00165	0.00568	1	10/19/2018 15:29	WG1183540
1,3-Dichlorobenzene	U			0.00193	0.00568	1	10/19/2018 15:29	WG1183540
1,4-Dichlorobenzene	U			0.00224	0.00568	1	10/19/2018 15:29	WG1183540
Dichlorodifluoromethane	U	U	J4	0.00743	0.0227	8	10/23/2018 05:58	WG1184696
1,1-Dichloroethane	U			0.000653	0.00284	1	10/19/2018 15:29	WG1183540
1,2-Dichloroethane	U			0.000539	0.00284	1	10/19/2018 15:29	WG1183540
1,1-Dichloroethene	U			0.000568	0.00284	1	10/19/2018 15:29	WG1183540
cis-1,2-Dichloroethene	0.0251			0.000784	0.00284	1	10/19/2018 15:29	WG1183540
trans-1,2-Dichloroethene	U			0.00162	0.00568	1	10/19/2018 15:29	WG1183540
1,2-Dichloropropane	U			0.00144	0.00568	1	10/19/2018 15:29	WG1183540
1,1-Dichloropropene	U			0.000795	0.00284	1	10/19/2018 15:29	WG1183540
1,3-Dichloropropane	U			0.00199	0.00568	1	10/19/2018 15:29	WG1183540
cis-1,3-Dichloropropene	U			0.000770	0.00284	1	10/19/2018 15:29	WG1183540
trans-1,3-Dichloropropene	U	U	J4	0.00174	0.00568	1	10/19/2018 15:29	WG1183540
trans-1,4-Dichloro-2-butene	U			0.00159	0.00568	1	10/19/2018 15:29	WG1183540
2,2-Dichloropropane	U			0.000900	0.00284	1	10/19/2018 15:29	WG1183540
Di-isopropyl ether	U			0.000397	0.00114	1	10/19/2018 15:29	WG1183540
Ethylbenzene	U	UJ	J0	0.000602	0.00284	1	10/19/2018 15:29	WG1183540
Hexachloro-1,3-butadiene	U			0.0144	0.0284	1	10/19/2018 15:29	WG1183540
2-Hexanone	U			0.0114	0.0284	1	10/19/2018 15:29	WG1183540
n-Hexane	U	UJ	J0 J4	0.00120	0.00568	1	10/19/2018 15:29	WG1183540
Iodomethane	U			0.00687	0.0142	1	10/19/2018 15:29	WG1183540
Isopropylbenzene	U			0.000980	0.00284	1	10/19/2018 15:29	WG1183540
p-Isopropyltoluene	U			0.00265	0.00568	1	10/19/2018 15:29	WG1183540
2-Butanone (MEK)	0.0249	U	B J J4	0.0142	0.0284	1	10/19/2018 15:29	WG1183540
Methylene Chloride	U			0.00754	0.0284	1	10/19/2018 15:29	WG1183540
4-Methyl-2-pentanone (MIBK)	U			0.0114	0.0284	1	10/19/2018 15:29	WG1183540

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B-254-10

Collected date/time: 10/16/18 09:50

SAMPLE RESULTS - 03

L1035515

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000335	0.00114	1	10/19/2018 15:29	WG1183540
Naphthalene	U		0.00354	0.0142	1	10/19/2018 15:29	WG1183540
n-Propylbenzene	U		0.00134	0.00568	1	10/19/2018 15:29	WG1183540
Styrene	U		0.00310	0.0142	1	10/19/2018 15:29	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000568	0.00284	1	10/19/2018 15:29	WG1183540
1,1,2,2-Tetrachloroethane	U		0.00354	0.0227	8	10/23/2018 05:58	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.00613	0.0227	8	10/23/2018 05:58	WG1184696
Tetrachloroethene	3.09		0.00636	0.0227	8	10/23/2018 05:58	WG1184696
Toluene	U		0.00142	0.00568	1	10/19/2018 15:29	WG1183540
1,2,3-Trichlorobenzene	U		0.00568	0.0227	8	10/23/2018 05:58	WG1184696
1,2,4-Trichlorobenzene	U		0.00547	0.0142	1	10/19/2018 15:29	WG1183540
1,1,1-Trichloroethane	U		0.000312	0.00284	1	10/19/2018 15:29	WG1183540
1,1,2-Trichloroethane	U		0.00100	0.00284	1	10/19/2018 15:29	WG1183540
Trichloroethene	0.0173		0.000454	0.00114	1	10/19/2018 15:29	WG1183540
Trichlorofluoromethane	U		0.000568	0.00284	1	10/19/2018 15:29	WG1183540
1,2,3-Trichloropropane	U		0.00579	0.0142	1	10/19/2018 15:29	WG1183540
1,2,4-Trimethylbenzene	U		0.00132	0.00568	1	10/19/2018 15:29	WG1183540
1,2,3-Trimethylbenzene	U		0.00131	0.00568	1	10/19/2018 15:29	WG1183540
1,3,5-Trimethylbenzene	U		0.00123	0.00568	1	10/19/2018 15:29	WG1183540
Vinyl acetate	U		0.00400	0.0142	1	10/19/2018 15:29	WG1183540
Vinyl chloride	0.0111 J	J	0.00620	0.0227	8	10/23/2018 05:58	WG1184696
Xylenes, Total	U		0.00543	0.00738	1	10/19/2018 15:29	WG1183540
(S) Toluene-d8	*104*			*75.0-131*		*10/19/2018 15:29*	WG1183540
(S) Toluene-d8	*98.8*			*75.0-131*		*10/23/2018 05:58*	WG1184696
(S) Dibromofluoromethane	*95.0*			*65.0-129*		*10/19/2018 15:29*	WG1183540
(S) Dibromofluoromethane	*118*			*65.0-129*		*10/23/2018 05:58*	WG1184696
(S) 4-Bromofluorobenzene	*89.8*			*67.0-138*		*10/19/2018 15:29*	WG1183540
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/23/2018 05:58*	WG1184696

Sample Narrative:

L1035515-03 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-03 WG1184696, WG1183540: Not all compounds reportable from lower dilution.

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.3		1	10/22/2018 11:24	WG1184403

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Acetone	U			6.43	11.7	400	10/23/2018 06:18	WG1184696
Acrylonitrile	U			0.00223	0.0147	1	10/19/2018 15:48	WG1183540
Benzene	U			0.000469	0.00117	1	10/19/2018 15:48	WG1183540
Bromobenzene	U			0.00123	0.0147	1	10/19/2018 15:48	WG1183540
Bromodichloromethane	U			0.000924	0.00293	1	10/19/2018 15:48	WG1183540
Bromochloromethane	U			0.00133	0.00586	1	10/19/2018 15:48	WG1183540
Bromoform	U			0.00701	0.0293	1	10/19/2018 15:48	WG1183540
Bromomethane	U			0.00434	0.0147	1	10/19/2018 15:48	WG1183540
n-Butylbenzene	U			0.00450	0.0147	1	10/19/2018 15:48	WG1183540
sec-Butylbenzene	U			0.00297	0.0147	1	10/19/2018 15:48	WG1183540
tert-Butylbenzene	U			0.00182	0.00586	1	10/19/2018 15:48	WG1183540
Carbon disulfide	U	UJ	J0	0.00476	0.0147	1	10/19/2018 15:48	WG1183540
Carbon tetrachloride	U			0.00127	0.00586	1	10/19/2018 15:48	WG1183540
Chlorobenzene	U			0.000672	0.00293	1	10/19/2018 15:48	WG1183540
Chlorodibromomethane	U			0.000528	0.00293	1	10/19/2018 15:48	WG1183540
Chloroethane	U			0.00127	0.00586	1	10/19/2018 15:48	WG1183540
Chloroform	U			0.000487	0.00293	1	10/19/2018 15:48	WG1183540
Chloromethane	U			0.00163	0.0147	1	10/19/2018 15:48	WG1183540
2-Chlorotoluene	U			0.00108	0.00293	1	10/19/2018 15:48	WG1183540
4-Chlorotoluene	U			0.00133	0.00586	1	10/19/2018 15:48	WG1183540
1,2-Dibromo-3-Chloropropane	U			0.00598	0.0293	1	10/19/2018 15:48	WG1183540
1,2-Dibromoethane	U			0.000616	0.00293	1	10/19/2018 15:48	WG1183540
Dibromomethane	U			0.00117	0.00586	1	10/19/2018 15:48	WG1183540
1,2-Dichlorobenzene	U			0.00170	0.00586	1	10/19/2018 15:48	WG1183540
1,3-Dichlorobenzene	U			0.00199	0.00586	1	10/19/2018 15:48	WG1183540
1,4-Dichlorobenzene	U			0.00231	0.00586	1	10/19/2018 15:48	WG1183540
Dichlorodifluoromethane	U	U	J4	0.383	1.17	400	10/23/2018 06:18	WG1184696
1,1-Dichloroethane	U			0.000674	0.00293	1	10/19/2018 15:48	WG1183540
1,2-Dichloroethane	U			0.000557	0.00293	1	10/19/2018 15:48	WG1183540
1,1-Dichloroethene	U			0.000586	0.00293	1	10/19/2018 15:48	WG1183540
cis-1,2-Dichloroethene	0.366			0.000809	0.00293	1	10/19/2018 15:48	WG1183540
trans-1,2-Dichloroethene	0.00740			0.00168	0.00586	1	10/19/2018 15:48	WG1183540
1,2-Dichloropropane	U			0.00149	0.00586	1	10/19/2018 15:48	WG1183540
1,1-Dichloropropene	U			0.000821	0.00293	1	10/19/2018 15:48	WG1183540
1,3-Dichloropropane	U			0.00205	0.00586	1	10/19/2018 15:48	WG1183540
cis-1,3-Dichloropropene	U			0.000795	0.00293	1	10/19/2018 15:48	WG1183540
trans-1,3-Dichloropropene	U	U	J4	0.00179	0.00586	1	10/19/2018 15:48	WG1183540
trans-1,4-Dichloro-2-butene	U			0.00164	0.00586	1	10/19/2018 15:48	WG1183540
2,2-Dichloropropane	U			0.000930	0.00293	1	10/19/2018 15:48	WG1183540
Di-isopropyl ether	U			0.000410	0.00117	1	10/19/2018 15:48	WG1183540
Ethylbenzene	U	UJ	J0	0.000622	0.00293	1	10/19/2018 15:48	WG1183540
Hexachloro-1,3-butadiene	U			0.0149	0.0293	1	10/19/2018 15:48	WG1183540
2-Hexanone	U			0.0117	0.0293	1	10/19/2018 15:48	WG1183540
n-Hexane	0.00289	J	J J0 J4	0.00124	0.00586	1	10/19/2018 15:48	WG1183540
Iodomethane	U			0.00709	0.0147	1	10/19/2018 15:48	WG1183540
Isopropylbenzene	U			0.00101	0.00293	1	10/19/2018 15:48	WG1183540
p-Isopropyltoluene	U			0.00273	0.00586	1	10/19/2018 15:48	WG1183540
2-Butanone (MEK)	0.0321	J	B J4	0.0147	0.0293	1	10/19/2018 15:48	WG1183540
Methylene Chloride	U			0.00779	0.0293	1	10/19/2018 15:48	WG1183540
4-Methyl-2-pentanone (MIBK)	U			0.0117	0.0293	1	10/19/2018 15:48	WG1183540

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000346	0.00117	1	10/19/2018 15:48	WG1183540
Naphthalene	U		0.00366	0.0147	1	10/19/2018 15:48	WG1183540
n-Propylbenzene	U		0.00138	0.00586	1	10/19/2018 15:48	WG1183540
Styrene	U		0.00320	0.0147	1	10/19/2018 15:48	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000586	0.00293	1	10/19/2018 15:48	WG1183540
1,1,2,2-Tetrachloroethane	U		0.183	1.17	400	10/23/2018 06:18	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.317	1.17	400	10/23/2018 06:18	WG1184696
Tetrachloroethene	42.2		0.328	1.17	400	10/23/2018 06:18	WG1184696
Toluene	0.00152 J	J	0.00147	0.00586	1	10/19/2018 15:48	WG1183540
1,2,3-Trichlorobenzene	U		0.293	1.17	400	10/23/2018 06:18	WG1184696
1,2,4-Trichlorobenzene	U		0.00565	0.0147	1	10/19/2018 15:48	WG1183540
1,1,1-Trichloroethane	U		0.000322	0.00293	1	10/19/2018 15:48	WG1183540
1,1,2-Trichloroethane	U		0.00104	0.00293	1	10/19/2018 15:48	WG1183540
Trichloroethene	0.353		0.000469	0.00117	1	10/19/2018 15:48	WG1183540
Trichlorofluoromethane	U		0.000586	0.00293	1	10/19/2018 15:48	WG1183540
1,2,3-Trichloropropane	U		0.00598	0.0147	1	10/19/2018 15:48	WG1183540
1,2,4-Trimethylbenzene	0.00657		0.00136	0.00586	1	10/19/2018 15:48	WG1183540
1,2,3-Trimethylbenzene	0.00223 J	J	0.00135	0.00586	1	10/19/2018 15:48	WG1183540
1,3,5-Trimethylbenzene	0.00219 J	J	0.00127	0.00586	1	10/19/2018 15:48	WG1183540
Vinyl acetate	U		0.00413	0.0147	1	10/19/2018 15:48	WG1183540
Vinyl chloride	U		0.320	1.17	400	10/23/2018 06:18	WG1184696
Xylenes, Total	U		0.00561	0.00762	1	10/19/2018 15:48	WG1183540
(S) Toluene-d8	*112*			*75.0-131*		*10/19/2018 15:48*	WG1183540
(S) Toluene-d8	*98.6*			*75.0-131*		*10/23/2018 06:18*	WG1184696
(S) Dibromofluoromethane	*93.1*			*65.0-129*		*10/19/2018 15:48*	WG1183540
(S) Dibromofluoromethane	*118*			*65.0-129*		*10/23/2018 06:18*	WG1184696
(S) 4-Bromofluorobenzene	*88.0*			*67.0-138*		*10/19/2018 15:48*	WG1183540
(S) 4-Bromofluorobenzene	*125*			*67.0-138*		*10/23/2018 06:18*	WG1184696

Sample Narrative:

L1035515-04 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-04 WG1184696, WG1183540: Not all compounds reportable from lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.9		1	10/22/2018 11:24	WG1184403

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			2.95	5.38	200	10/23/2018 06:38	WG1184696
Acrylonitrile	U			0.00204	0.0134	1	10/19/2018 16:06	WG1183540
Benzene	U			0.000430	0.00108	1	10/19/2018 16:06	WG1183540
Bromobenzene	U			0.00113	0.0134	1	10/19/2018 16:06	WG1183540
Bromodichloromethane	U			0.000848	0.00269	1	10/19/2018 16:06	WG1183540
Bromochloromethane	U			0.00122	0.00538	1	10/19/2018 16:06	WG1183540
Bromoform	U			0.00643	0.0269	1	10/19/2018 16:06	WG1183540
Bromomethane	U			0.00398	0.0134	1	10/19/2018 16:06	WG1183540
n-Butylbenzene	U			0.00413	0.0134	1	10/19/2018 16:06	WG1183540
sec-Butylbenzene	U			0.00272	0.0134	1	10/19/2018 16:06	WG1183540
tert-Butylbenzene	U			0.00167	0.00538	1	10/19/2018 16:06	WG1183540
Carbon disulfide	U	UJ	J0	0.00437	0.0134	1	10/19/2018 16:06	WG1183540
Carbon tetrachloride	U			0.00116	0.00538	1	10/19/2018 16:06	WG1183540
Chlorobenzene	U			0.000616	0.00269	1	10/19/2018 16:06	WG1183540
Chlorodibromomethane	U			0.000484	0.00269	1	10/19/2018 16:06	WG1183540
Chloroethane	U			0.00116	0.00538	1	10/19/2018 16:06	WG1183540
Chloroform	U			0.000447	0.00269	1	10/19/2018 16:06	WG1183540
Chloromethane	U			0.00150	0.0134	1	10/19/2018 16:06	WG1183540
2-Chlorotoluene	U			0.000990	0.00269	1	10/19/2018 16:06	WG1183540
4-Chlorotoluene	U			0.00122	0.00538	1	10/19/2018 16:06	WG1183540
1,2-Dibromo-3-Chloropropane	U			0.00549	0.0269	1	10/19/2018 16:06	WG1183540
1,2-Dibromoethane	U			0.000565	0.00269	1	10/19/2018 16:06	WG1183540
Dibromomethane	U			0.00108	0.00538	1	10/19/2018 16:06	WG1183540
1,2-Dichlorobenzene	U			0.00156	0.00538	1	10/19/2018 16:06	WG1183540
1,3-Dichlorobenzene	U			0.00183	0.00538	1	10/19/2018 16:06	WG1183540
1,4-Dichlorobenzene	U			0.00212	0.00538	1	10/19/2018 16:06	WG1183540
Dichlorodifluoromethane	U	U	J4	0.176	0.538	200	10/23/2018 06:38	WG1184696
1,1-Dichloroethane	U			0.000619	0.00269	1	10/19/2018 16:06	WG1183540
1,2-Dichloroethane	U			0.000511	0.00269	1	10/19/2018 16:06	WG1183540
1,1-Dichloroethene	U			0.000538	0.00269	1	10/19/2018 16:06	WG1183540
cis-1,2-Dichloroethene	0.182			0.000742	0.00269	1	10/19/2018 16:06	WG1183540
trans-1,2-Dichloroethene	0.00222	J	J	0.00154	0.00538	1	10/19/2018 16:06	WG1183540
1,2-Dichloropropane	U			0.00137	0.00538	1	10/19/2018 16:06	WG1183540
1,1-Dichloropropene	U			0.000753	0.00269	1	10/19/2018 16:06	WG1183540
1,3-Dichloropropane	U			0.00188	0.00538	1	10/19/2018 16:06	WG1183540
cis-1,3-Dichloropropene	U			0.000729	0.00269	1	10/19/2018 16:06	WG1183540
trans-1,3-Dichloropropene	U	U	J4	0.00165	0.00538	1	10/19/2018 16:06	WG1183540
trans-1,4-Dichloro-2-butene	U			0.00151	0.00538	1	10/19/2018 16:06	WG1183540
2,2-Dichloropropane	U			0.000853	0.00269	1	10/19/2018 16:06	WG1183540
Di-isopropyl ether	U			0.000377	0.00108	1	10/19/2018 16:06	WG1183540
Ethylbenzene	U	UJ	J0	0.000570	0.00269	1	10/19/2018 16:06	WG1183540
Hexachloro-1,3-butadiene	U			0.0137	0.0269	1	10/19/2018 16:06	WG1183540
2-Hexanone	U			0.0108	0.0269	1	10/19/2018 16:06	WG1183540
n-Hexane	0.00515	J	J J0 J4	0.00114	0.00538	1	10/19/2018 16:06	WG1183540
Iodomethane	U			0.00651	0.0134	1	10/19/2018 16:06	WG1183540
Isopropylbenzene	U			0.000929	0.00269	1	10/19/2018 16:06	WG1183540
p-Isopropyltoluene	U			0.00251	0.00538	1	10/19/2018 16:06	WG1183540
2-Butanone (MEK)	0.0314	J	B J4	0.0134	0.0269	1	10/19/2018 16:06	WG1183540
Methylene Chloride	U			0.00714	0.0269	1	10/19/2018 16:06	WG1183540
4-Methyl-2-pentanone (MIBK)	U			0.0108	0.0269	1	10/19/2018 16:06	WG1183540

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B-254-20

SAMPLE RESULTS - 05

Collected date/time: 10/16/18 10:00

L1035515

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000317	0.00108	1	10/19/2018 16:06	WG1183540
Naphthalene	U		0.00336	0.0134	1	10/19/2018 16:06	WG1183540
n-Propylbenzene	U		0.00127	0.00538	1	10/19/2018 16:06	WG1183540
Styrene	U		0.00294	0.0134	1	10/19/2018 16:06	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	10/19/2018 16:06	WG1183540
1,1,2,2-Tetrachloroethane	U		0.0839	0.538	200	10/23/2018 06:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.145	0.538	200	10/23/2018 06:38	WG1184696
Tetrachloroethene	28.0		0.151	0.538	200	10/23/2018 06:38	WG1184696
Toluene	U		0.00134	0.00538	1	10/19/2018 16:06	WG1183540
1,2,3-Trichlorobenzene	U		0.134	0.538	200	10/23/2018 06:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00519	0.0134	1	10/19/2018 16:06	WG1183540
1,1,1-Trichloroethane	U		0.000296	0.00269	1	10/19/2018 16:06	WG1183540
1,1,2-Trichloroethane	U		0.000950	0.00269	1	10/19/2018 16:06	WG1183540
Trichloroethene	0.228		0.000430	0.00108	1	10/19/2018 16:06	WG1183540
Trichlorofluoromethane	U		0.000538	0.00269	1	10/19/2018 16:06	WG1183540
1,2,3-Trichloropropane	U		0.00549	0.0134	1	10/19/2018 16:06	WG1183540
1,2,4-Trimethylbenzene	0.00341 J	J	0.00125	0.00538	1	10/19/2018 16:06	WG1183540
1,2,3-Trimethylbenzene	0.00134 J	J	0.00124	0.00538	1	10/19/2018 16:06	WG1183540
1,3,5-Trimethylbenzene	0.00120 J	J	0.00116	0.00538	1	10/19/2018 16:06	WG1183540
Vinyl acetate	U		0.00379	0.0134	1	10/19/2018 16:06	WG1183540
Vinyl chloride	U		0.147	0.538	200	10/23/2018 06:38	WG1184696
Xylenes, Total	U		0.00514	0.00699	1	10/19/2018 16:06	WG1183540
(S) Toluene-d8	*111*			*75.0-131*		*10/19/2018 16:06*	WG1183540
(S) Toluene-d8	*98.2*			*75.0-131*		*10/23/2018 06:38*	WG1184696
(S) Dibromofluoromethane	*93.9*			*65.0-129*		*10/19/2018 16:06*	WG1183540
(S) Dibromofluoromethane	*117*			*65.0-129*		*10/23/2018 06:38*	WG1184696
(S) 4-Bromofluorobenzene	*88.1*			*67.0-138*		*10/19/2018 16:06*	WG1183540
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*10/23/2018 06:38*	WG1184696

Sample Narrative:

L1035515-05 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-05 WG1184696, WG1183540: Not all compounds reportable from lower dilution.

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.5		1	10/22/2018 11:24	WG1184403

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		6.12	11.2	400	10/23/2018 06:58	WG1184696
Acrylonitrile	U		0.00212	0.0140	1	10/19/2018 16:25	WG1183540
Benzene	U		0.000447	0.00112	1	10/19/2018 16:25	WG1183540
Bromobenzene	U		0.00117	0.0140	1	10/19/2018 16:25	WG1183540
Bromodichloromethane	U		0.000880	0.00279	1	10/19/2018 16:25	WG1183540
Bromochloromethane	U		0.00126	0.00559	1	10/19/2018 16:25	WG1183540
Bromoform	U		0.00668	0.0279	1	10/19/2018 16:25	WG1183540
Bromomethane	U		0.00413	0.0140	1	10/19/2018 16:25	WG1183540
n-Butylbenzene	U		0.00429	0.0140	1	10/19/2018 16:25	WG1183540
sec-Butylbenzene	U		0.00283	0.0140	1	10/19/2018 16:25	WG1183540
tert-Butylbenzene	U		0.00173	0.00559	1	10/19/2018 16:25	WG1183540
Carbon disulfide	U UJ	J0	0.00454	0.0140	1	10/19/2018 16:25	WG1183540
Carbon tetrachloride	U		0.00121	0.00559	1	10/19/2018 16:25	WG1183540
Chlorobenzene	U		0.000640	0.00279	1	10/19/2018 16:25	WG1183540
Chlorodibromomethane	U		0.000503	0.00279	1	10/19/2018 16:25	WG1183540
Chloroethane	U		0.00121	0.00559	1	10/19/2018 16:25	WG1183540
Chloroform	U		0.000464	0.00279	1	10/19/2018 16:25	WG1183540
Chloromethane	U		0.00155	0.0140	1	10/19/2018 16:25	WG1183540
2-Chlorotoluene	U		0.00103	0.00279	1	10/19/2018 16:25	WG1183540
4-Chlorotoluene	U		0.00126	0.00559	1	10/19/2018 16:25	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0279	1	10/19/2018 16:25	WG1183540
1,2-Dibromoethane	U		0.000587	0.00279	1	10/19/2018 16:25	WG1183540
Dibromomethane	U		0.00112	0.00559	1	10/19/2018 16:25	WG1183540
1,2-Dichlorobenzene	U		0.00162	0.00559	1	10/19/2018 16:25	WG1183540
1,3-Dichlorobenzene	U		0.00190	0.00559	1	10/19/2018 16:25	WG1183540
1,4-Dichlorobenzene	U		0.00220	0.00559	1	10/19/2018 16:25	WG1183540
Dichlorodifluoromethane	U U	J4	0.365	1.12	400	10/23/2018 06:58	WG1184696
1,1-Dichloroethane	U		0.000642	0.00279	1	10/19/2018 16:25	WG1183540
1,2-Dichloroethane	U		0.000531	0.00279	1	10/19/2018 16:25	WG1183540
1,1-Dichloroethene	U		0.000559	0.00279	1	10/19/2018 16:25	WG1183540
cis-1,2-Dichloroethene	1.20		0.000771	0.00279	1	10/19/2018 16:25	WG1183540
trans-1,2-Dichloroethene	0.00449 J	J	0.00160	0.00559	1	10/19/2018 16:25	WG1183540
1,2-Dichloropropane	U		0.00142	0.00559	1	10/19/2018 16:25	WG1183540
1,1-Dichloropropene	U		0.000782	0.00279	1	10/19/2018 16:25	WG1183540
1,3-Dichloropropane	U		0.00196	0.00559	1	10/19/2018 16:25	WG1183540
cis-1,3-Dichloropropene	U		0.000757	0.00279	1	10/19/2018 16:25	WG1183540
trans-1,3-Dichloropropene	U U	J4	0.00171	0.00559	1	10/19/2018 16:25	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00156	0.00559	1	10/19/2018 16:25	WG1183540
2,2-Dichloropropane	U		0.000886	0.00279	1	10/19/2018 16:25	WG1183540
Di-isopropyl ether	U		0.000391	0.00112	1	10/19/2018 16:25	WG1183540
Ethylbenzene	0.000655 J	J J0	0.000592	0.00279	1	10/19/2018 16:25	WG1183540
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/19/2018 16:25	WG1183540
2-Hexanone	U		0.0112	0.0279	1	10/19/2018 16:25	WG1183540
n-Hexane	0.00486 J	J J0 J4	0.00118	0.00559	1	10/19/2018 16:25	WG1183540
Iodomethane	U		0.00676	0.0140	1	10/19/2018 16:25	WG1183540
Isopropylbenzene	U		0.000964	0.00279	1	10/19/2018 16:25	WG1183540
p-Isopropyltoluene	U		0.00260	0.00559	1	10/19/2018 16:25	WG1183540
2-Butanone (MEK)	0.0313 J	B J4	0.0140	0.0279	1	10/19/2018 16:25	WG1183540
Methylene Chloride	U		0.00742	0.0279	1	10/19/2018 16:25	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	10/19/2018 16:25	WG1183540

JC 11/15/18

B-254-25

Collected date/time: 10/16/18 10:09

SAMPLE RESULTS - 06

L1035515

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U			0.000330	0.00112	1	10/19/2018 16:25	WG1183540
Naphthalene	U			0.00349	0.0140	1	10/19/2018 16:25	WG1183540
n-Propylbenzene	U			0.00132	0.00559	1	10/19/2018 16:25	WG1183540
Styrene	U			0.00305	0.0140	1	10/19/2018 16:25	WG1183540
1,1,1,2-Tetrachloroethane	U			0.000559	0.00279	1	10/19/2018 16:25	WG1183540
1,1,2,2-Tetrachloroethane	U			0.174	1.12	400	10/23/2018 06:58	WG1184696
1,1,2-Trichlorotrifluoroethane	U			0.302	1.12	400	10/23/2018 06:58	WG1184696
Tetrachloroethene	46.7			0.313	1.12	400	10/23/2018 06:58	WG1184696
Toluene	0.00321	J	J	0.00140	0.00559	1	10/19/2018 16:25	WG1183540
1,2,3-Trichlorobenzene	U			0.279	1.12	400	10/23/2018 06:58	WG1184696
1,2,4-Trichlorobenzene	U			0.00539	0.0140	1	10/19/2018 16:25	WG1183540
1,1,1-Trichloroethane	U			0.000307	0.00279	1	10/19/2018 16:25	WG1183540
1,1,2-Trichloroethane	U			0.000987	0.00279	1	10/19/2018 16:25	WG1183540
Trichloroethene	0.681			0.000447	0.00112	1	10/19/2018 16:25	WG1183540
Trichlorofluoromethane	U			0.000559	0.00279	1	10/19/2018 16:25	WG1183540
1,2,3-Trichloropropane	U			0.00570	0.0140	1	10/19/2018 16:25	WG1183540
1,2,4-Trimethylbenzene	0.00517	J	J	0.00130	0.00559	1	10/19/2018 16:25	WG1183540
1,2,3-Trimethylbenzene	0.00170	J	J	0.00128	0.00559	1	10/19/2018 16:25	WG1183540
1,3,5-Trimethylbenzene	0.00138	J	J	0.00121	0.00559	1	10/19/2018 16:25	WG1183540
Vinyl acetate	U			0.00393	0.0140	1	10/19/2018 16:25	WG1183540
Vinyl chloride	U			0.305	1.12	400	10/23/2018 06:58	WG1184696
Xylenes, Total	U			0.00534	0.00726	1	10/19/2018 16:25	WG1183540
(S) Toluene-d8	*112*				*75.0-131*		*10/19/2018 16:25*	WG1183540
(S) Toluene-d8	*98.1*				*75.0-131*		*10/23/2018 06:58*	WG1184696
(S) Dibromofluoromethane	*92.5*				*65.0-129*		*10/19/2018 16:25*	WG1183540
(S) Dibromofluoromethane	*118*				*65.0-129*		*10/23/2018 06:58*	WG1184696
(S) 4-Bromofluorobenzene	*90.7*				*67.0-138*		*10/19/2018 16:25*	WG1183540
(S) 4-Bromofluorobenzene	*120*				*67.0-138*		*10/23/2018 06:58*	WG1184696

Sample Narrative:

L1035515-06 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-06 WG1184696, WG1183540: Not all compounds reportable from lower dilution.

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.6		1	10/22/2018 11:24	WG1184403

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0156	0.0286	1	10/23/2018 01:38	WG1184696
Acrylonitrile	U		0.00217	0.0143	1	10/19/2018 16:43	WG1183540
Benzene	U		0.000457	0.00114	1	10/19/2018 16:43	WG1183540
Bromobenzene	U		0.00120	0.0143	1	10/19/2018 16:43	WG1183540
Bromodichloromethane	U		0.000900	0.00286	1	10/19/2018 16:43	WG1183540
Bromochloromethane	U		0.00129	0.00571	1	10/19/2018 16:43	WG1183540
Bromoform	U		0.00683	0.0286	1	10/19/2018 16:43	WG1183540
Bromomethane	U		0.00423	0.0143	1	10/19/2018 16:43	WG1183540
n-Butylbenzene	U		0.00439	0.0143	1	10/19/2018 16:43	WG1183540
sec-Butylbenzene	U		0.00289	0.0143	1	10/19/2018 16:43	WG1183540
tert-Butylbenzene	U		0.00177	0.00571	1	10/19/2018 16:43	WG1183540
Carbon disulfide	U	UJ J0	0.00464	0.0143	1	10/19/2018 16:43	WG1183540
Carbon tetrachloride	U		0.00123	0.00571	1	10/19/2018 16:43	WG1183540
Chlorobenzene	U		0.000654	0.00286	1	10/19/2018 16:43	WG1183540
Chlorodibromomethane	U		0.000514	0.00286	1	10/19/2018 16:43	WG1183540
Chloroethane	U		0.00123	0.00571	1	10/19/2018 16:43	WG1183540
Chloroform	U		0.000474	0.00286	1	10/19/2018 16:43	WG1183540
Chloromethane	U		0.00159	0.0143	1	10/19/2018 16:43	WG1183540
2-Chlorotoluene	U		0.00105	0.00286	1	10/19/2018 16:43	WG1183540
4-Chlorotoluene	U		0.00129	0.00571	1	10/19/2018 16:43	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00582	0.0286	1	10/19/2018 16:43	WG1183540
1,2-Dibromoethane	U		0.000600	0.00286	1	10/19/2018 16:43	WG1183540
Dibromomethane	U		0.00114	0.00571	1	10/19/2018 16:43	WG1183540
1,2-Dichlorobenzene	U		0.00166	0.00571	1	10/19/2018 16:43	WG1183540
1,3-Dichlorobenzene	U		0.00194	0.00571	1	10/19/2018 16:43	WG1183540
1,4-Dichlorobenzene	U		0.00225	0.00571	1	10/19/2018 16:43	WG1183540
Dichlorodifluoromethane	U	U J4	0.000934	0.00286	1	10/23/2018 01:38	WG1184696
1,1-Dichloroethane	U		0.000657	0.00286	1	10/19/2018 16:43	WG1183540
1,2-Dichloroethane	U		0.000542	0.00286	1	10/19/2018 16:43	WG1183540
1,1-Dichloroethene	U		0.000571	0.00286	1	10/19/2018 16:43	WG1183540
cis-1,2-Dichloroethene	0.0101		0.000788	0.00286	1	10/19/2018 16:43	WG1183540
trans-1,2-Dichloroethene	U		0.00163	0.00571	1	10/19/2018 16:43	WG1183540
1,2-Dichloropropane	U		0.00145	0.00571	1	10/19/2018 16:43	WG1183540
1,1-Dichloropropene	U		0.000799	0.00286	1	10/19/2018 16:43	WG1183540
1,3-Dichloropropane	U		0.00200	0.00571	1	10/19/2018 16:43	WG1183540
cis-1,3-Dichloropropene	U		0.000774	0.00286	1	10/19/2018 16:43	WG1183540
trans-1,3-Dichloropropene	U	U J4	0.00175	0.00571	1	10/19/2018 16:43	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	10/19/2018 16:43	WG1183540
2,2-Dichloropropane	U		0.000906	0.00286	1	10/19/2018 16:43	WG1183540
Di-isopropyl ether	U		0.000400	0.00114	1	10/19/2018 16:43	WG1183540
Ethylbenzene	U	UJ J0	0.000605	0.00286	1	10/19/2018 16:43	WG1183540
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	10/19/2018 16:43	WG1183540
2-Hexanone	U		0.0114	0.0286	1	10/19/2018 16:43	WG1183540
n-Hexane	0.00578	J J0 J4	0.00121	0.00571	1	10/19/2018 16:43	WG1183540
Iodomethane	U		0.00691	0.0143	1	10/19/2018 16:43	WG1183540
Isopropylbenzene	U		0.000986	0.00286	1	10/19/2018 16:43	WG1183540
p-Isopropyltoluene	U		0.00266	0.00571	1	10/19/2018 16:43	WG1183540
2-Butanone (MEK)	0.0274	U B J J4	0.0143	0.0286	1	10/19/2018 16:43	WG1183540
Methylene Chloride	U		0.00758	0.0286	1	10/19/2018 16:43	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	10/19/2018 16:43	WG1183540

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000337	0.00114	1	10/19/2018 16:43	WG1183540
Naphthalene	U		0.00356	0.0143	1	10/19/2018 16:43	WG1183540
n-Propylbenzene	U		0.00135	0.00571	1	10/19/2018 16:43	WG1183540
Styrene	U		0.00312	0.0143	1	10/19/2018 16:43	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000571	0.00286	1	10/19/2018 16:43	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000445	0.00286	1	10/23/2018 01:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000771	0.00286	1	10/23/2018 01:38	WG1184696
Tetrachloroethene	0.0927		0.000799	0.00286	1	10/23/2018 01:38	WG1184696
Toluene	U		0.00143	0.00571	1	10/19/2018 16:43	WG1183540
1,2,3-Trichlorobenzene	U		0.000714	0.00286	1	10/23/2018 01:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00550	0.0143	1	10/19/2018 16:43	WG1183540
1,1,1-Trichloroethane	U		0.000314	0.00286	1	10/19/2018 16:43	WG1183540
1,1,2-Trichloroethane	U		0.00101	0.00286	1	10/19/2018 16:43	WG1183540
Trichloroethene	0.00586		0.000457	0.00114	1	10/19/2018 16:43	WG1183540
Trichlorofluoromethane	U		0.000571	0.00286	1	10/19/2018 16:43	WG1183540
1,2,3-Trichloropropane	U		0.00582	0.0143	1	10/19/2018 16:43	WG1183540
1,2,4-Trimethylbenzene	U		0.00132	0.00571	1	10/19/2018 16:43	WG1183540
1,2,3-Trimethylbenzene	U		0.00131	0.00571	1	10/19/2018 16:43	WG1183540
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	10/19/2018 16:43	WG1183540
Vinyl acetate	U		0.00402	0.0143	1	10/19/2018 16:43	WG1183540
Vinyl chloride	U U	J4	0.000780	0.00286	1	10/19/2018 16:43	WG1183540
Xylenes, Total	U		0.00546	0.00742	1	10/19/2018 16:43	WG1183540
(S) Toluene-d8	*101*			*75.0-131*		*10/19/2018 16:43*	WG1183540
(S) Toluene-d8	*101*			*75.0-131*		*10/23/2018 01:38*	WG1184696
(S) Dibromofluoromethane	*94.1*			*65.0-129*		*10/19/2018 16:43*	WG1183540
(S) Dibromofluoromethane	*111*			*65.0-129*		*10/23/2018 01:38*	WG1184696
(S) 4-Bromofluorobenzene	*90.7*			*67.0-138*		*10/19/2018 16:43*	WG1183540
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/23/2018 01:38*	WG1184696

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SAMPLE RESULTS - 08

L1035515

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.3		1	10/22/2018 11:24	WG1184403

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0159	0.0290	1	10/23/2018 01:58	WG1184696
Acrylonitrile	U		0.00220	0.0145	1	10/19/2018 17:02	WG1183540
Benzene	U		0.000463	0.00116	1	10/19/2018 17:02	WG1183540
Bromobenzene	U		0.00122	0.0145	1	10/19/2018 17:02	WG1183540
Bromodichloromethane	U		0.000913	0.00290	1	10/19/2018 17:02	WG1183540
Bromochloromethane	U		0.00131	0.00579	1	10/19/2018 17:02	WG1183540
Bromoform	U		0.00693	0.0290	1	10/19/2018 17:02	WG1183540
Bromomethane	U		0.00429	0.0145	1	10/19/2018 17:02	WG1183540
n-Butylbenzene	U		0.00445	0.0145	1	10/19/2018 17:02	WG1183540
sec-Butylbenzene	U		0.00293	0.0145	1	10/19/2018 17:02	WG1183540
tert-Butylbenzene	U		0.00180	0.00579	1	10/19/2018 17:02	WG1183540
Carbon disulfide	U UJ	J0	0.00470	0.0145	1	10/19/2018 17:02	WG1183540
Carbon tetrachloride	U		0.00125	0.00579	1	10/19/2018 17:02	WG1183540
Chlorobenzene	U		0.000664	0.00290	1	10/19/2018 17:02	WG1183540
Chlorodibromomethane	U		0.000521	0.00290	1	10/19/2018 17:02	WG1183540
Chloroethane	U		0.00125	0.00579	1	10/19/2018 17:02	WG1183540
Chloroform	U		0.000481	0.00290	1	10/19/2018 17:02	WG1183540
Chloromethane	U		0.00161	0.0145	1	10/19/2018 17:02	WG1183540
2-Chlorotoluene	U		0.00107	0.00290	1	10/19/2018 17:02	WG1183540
4-Chlorotoluene	U		0.00131	0.00579	1	10/19/2018 17:02	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0290	1	10/19/2018 17:02	WG1183540
1,2-Dibromoethane	U		0.000608	0.00290	1	10/19/2018 17:02	WG1183540
Dibromomethane	U		0.00116	0.00579	1	10/19/2018 17:02	WG1183540
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/19/2018 17:02	WG1183540
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/19/2018 17:02	WG1183540
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/19/2018 17:02	WG1183540
Dichlorodifluoromethane	U U	J4	0.000948	0.00290	1	10/23/2018 01:58	WG1184696
1,1-Dichloroethane	U		0.000666	0.00290	1	10/19/2018 17:02	WG1183540
1,2-Dichloroethane	U		0.000550	0.00290	1	10/19/2018 17:02	WG1183540
1,1-Dichloroethene	U		0.000579	0.00290	1	10/19/2018 17:02	WG1183540
cis-1,2-Dichloroethene	0.0118		0.000800	0.00290	1	10/19/2018 17:02	WG1183540
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	10/19/2018 17:02	WG1183540
1,2-Dichloropropane	U		0.00147	0.00579	1	10/19/2018 17:02	WG1183540
1,1-Dichloropropene	U		0.000811	0.00290	1	10/19/2018 17:02	WG1183540
1,3-Dichloropropane	U		0.00203	0.00579	1	10/19/2018 17:02	WG1183540
cis-1,3-Dichloropropene	U		0.000786	0.00290	1	10/19/2018 17:02	WG1183540
trans-1,3-Dichloropropene	U U	J4	0.00177	0.00579	1	10/19/2018 17:02	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/19/2018 17:02	WG1183540
2,2-Dichloropropane	U		0.000919	0.00290	1	10/19/2018 17:02	WG1183540
Di-isopropyl ether	U		0.000406	0.00116	1	10/19/2018 17:02	WG1183540
Ethylbenzene	U UJ	J0	0.000614	0.00290	1	10/19/2018 17:02	WG1183540
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/19/2018 17:02	WG1183540
2-Hexanone	U		0.0116	0.0290	1	10/19/2018 17:02	WG1183540
n-Hexane	0.00565 J	J J0 J4	0.00123	0.00579	1	10/19/2018 17:02	WG1183540
Iodomethane	U		0.00701	0.0145	1	10/19/2018 17:02	WG1183540
Isopropylbenzene	U		0.00100	0.00290	1	10/19/2018 17:02	WG1183540
p-Isopropyltoluene	U		0.00270	0.00579	1	10/19/2018 17:02	WG1183540
2-Butanone (MEK)	0.0328 J	B J4	0.0145	0.0290	1	10/19/2018 17:02	WG1183540
Methylene Chloride	U		0.00769	0.0290	1	10/19/2018 17:02	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/19/2018 17:02	WG1183540

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	10/19/2018 17:02	WG1183540
Naphthalene	U		0.00362	0.0145	1	10/19/2018 17:02	WG1183540
n-Propylbenzene	U		0.00137	0.00579	1	10/19/2018 17:02	WG1183540
Styrene	U		0.00316	0.0145	1	10/19/2018 17:02	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	10/19/2018 17:02	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	10/23/2018 01:58	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	10/23/2018 01:58	WG1184696
Tetrachloroethene	0.0420		0.000811	0.00290	1	10/23/2018 01:58	WG1184696
Toluene	U		0.00145	0.00579	1	10/19/2018 17:02	WG1183540
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	10/23/2018 01:58	WG1184696
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	10/19/2018 17:02	WG1183540
1,1,1-Trichloroethane	U		0.000319	0.00290	1	10/19/2018 17:02	WG1183540
1,1,2-Trichloroethane	U		0.00102	0.00290	1	10/19/2018 17:02	WG1183540
Trichloroethene	0.0342		0.000463	0.00116	1	10/19/2018 17:02	WG1183540
Trichlorofluoromethane	U		0.000579	0.00290	1	10/19/2018 17:02	WG1183540
1,2,3-Trichloropropane	U		0.00591	0.0145	1	10/19/2018 17:02	WG1183540
1,2,4-Trimethylbenzene	U		0.00134	0.00579	1	10/19/2018 17:02	WG1183540
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	10/19/2018 17:02	WG1183540
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	10/19/2018 17:02	WG1183540
Vinyl acetate	U		0.00408	0.0145	1	10/19/2018 17:02	WG1183540
Vinyl chloride	U U	J4	0.000791	0.00290	1	10/19/2018 17:02	WG1183540
Xylenes, Total	U		0.00554	0.00753	1	10/19/2018 17:02	WG1183540
(S) Toluene-d8	*102*			*75.0-131*		*10/19/2018 17:02*	WG1183540
(S) Toluene-d8	*99.2*			*75.0-131*		*10/23/2018 01:58*	WG1184696
(S) Dibromofluoromethane	*95.6*			*65.0-129*		*10/19/2018 17:02*	WG1183540
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/23/2018 01:58*	WG1184696
(S) 4-Bromofluorobenzene	*88.3*			*67.0-138*		*10/19/2018 17:02*	WG1183540
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/23/2018 01:58*	WG1184696

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.8		1	10/22/2018 11:24	WG1184403

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0149	0.0272	1	10/23/2018 02:18	WG1184696
Acrylonitrile	U			0.00207	0.0136	1	10/19/2018 17:20	WG1183540
Benzene	U			0.000436	0.00109	1	10/19/2018 17:20	WG1183540
Bromobenzene	U			0.00114	0.0136	1	10/19/2018 17:20	WG1183540
Bromodichloromethane	U			0.000859	0.00272	1	10/19/2018 17:20	WG1183540
Bromochloromethane	U			0.00123	0.00545	1	10/19/2018 17:20	WG1183540
Bromoform	U			0.00652	0.0272	1	10/19/2018 17:20	WG1183540
Bromomethane	U			0.00403	0.0136	1	10/19/2018 17:20	WG1183540
n-Butylbenzene	U			0.00418	0.0136	1	10/19/2018 17:20	WG1183540
sec-Butylbenzene	U			0.00276	0.0136	1	10/19/2018 17:20	WG1183540
tert-Butylbenzene	U			0.00169	0.00545	1	10/19/2018 17:20	WG1183540
Carbon disulfide	U	UJ	J0	0.00442	0.0136	1	10/19/2018 17:20	WG1183540
Carbon tetrachloride	U			0.00118	0.00545	1	10/19/2018 17:20	WG1183540
Chlorobenzene	U			0.000624	0.00272	1	10/19/2018 17:20	WG1183540
Chlorodibromomethane	U			0.000490	0.00272	1	10/19/2018 17:20	WG1183540
Chloroethane	U			0.00118	0.00545	1	10/19/2018 17:20	WG1183540
Chloroform	U			0.000452	0.00272	1	10/19/2018 17:20	WG1183540
Chloromethane	U			0.00151	0.0136	1	10/19/2018 17:20	WG1183540
2-Chlorotoluene	U			0.00100	0.00272	1	10/19/2018 17:20	WG1183540
4-Chlorotoluene	U			0.00123	0.00545	1	10/19/2018 17:20	WG1183540
1,2-Dibromo-3-Chloropropane	U			0.00556	0.0272	1	10/19/2018 17:20	WG1183540
1,2-Dibromoethane	U			0.000572	0.00272	1	10/19/2018 17:20	WG1183540
Dibromomethane	U			0.00109	0.00545	1	10/19/2018 17:20	WG1183540
1,2-Dichlorobenzene	U			0.00158	0.00545	1	10/19/2018 17:20	WG1183540
1,3-Dichlorobenzene	U			0.00185	0.00545	1	10/19/2018 17:20	WG1183540
1,4-Dichlorobenzene	U			0.00215	0.00545	1	10/19/2018 17:20	WG1183540
Dichlorodifluoromethane	U	U	J4	0.000891	0.00272	1	10/23/2018 02:18	WG1184696
1,1-Dichloroethane	U			0.000627	0.00272	1	10/19/2018 17:20	WG1183540
1,2-Dichloroethane	U			0.000518	0.00272	1	10/19/2018 17:20	WG1183540
1,1-Dichloroethene	U			0.000545	0.00272	1	10/19/2018 17:20	WG1183540
cis-1,2-Dichloroethene	0.0294			0.000752	0.00272	1	10/19/2018 17:20	WG1183540
trans-1,2-Dichloroethene	U			0.00156	0.00545	1	10/19/2018 17:20	WG1183540
1,2-Dichloropropane	U			0.00138	0.00545	1	10/19/2018 17:20	WG1183540
1,1-Dichloropropene	U			0.000763	0.00272	1	10/19/2018 17:20	WG1183540
1,3-Dichloropropane	U			0.00191	0.00545	1	10/19/2018 17:20	WG1183540
cis-1,3-Dichloropropene	U			0.000739	0.00272	1	10/19/2018 17:20	WG1183540
trans-1,3-Dichloropropene	U	U	J4	0.00167	0.00545	1	10/19/2018 17:20	WG1183540
trans-1,4-Dichloro-2-butene	U			0.00153	0.00545	1	10/19/2018 17:20	WG1183540
2,2-Dichloropropane	U			0.000864	0.00272	1	10/19/2018 17:20	WG1183540
Di-isopropyl ether	U			0.000381	0.00109	1	10/19/2018 17:20	WG1183540
Ethylbenzene	U	UJ	J0	0.000577	0.00272	1	10/19/2018 17:20	WG1183540
Hexachloro-1,3-butadiene	U			0.0138	0.0272	1	10/19/2018 17:20	WG1183540
2-Hexanone	U			0.0109	0.0272	1	10/19/2018 17:20	WG1183540
n-Hexane	0.00689	J	J0 J4	0.00115	0.00545	1	10/19/2018 17:20	WG1183540
Iodomethane	U			0.00659	0.0136	1	10/19/2018 17:20	WG1183540
Isopropylbenzene	U			0.000940	0.00272	1	10/19/2018 17:20	WG1183540
p-Isopropyltoluene	U			0.00254	0.00545	1	10/19/2018 17:20	WG1183540
2-Butanone (MEK)	0.0295	J	B J4	0.0136	0.0272	1	10/19/2018 17:20	WG1183540
Methylene Chloride	U			0.00723	0.0272	1	10/19/2018 17:20	WG1183540
4-Methyl-2-pentanone (MIBK)	U			0.0109	0.0272	1	10/19/2018 17:20	WG1183540

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000321	0.00109	1	10/19/2018 17:20	WG1183540
Naphthalene	U		0.00340	0.0136	1	10/19/2018 17:20	WG1183540
n-Propylbenzene	U		0.00129	0.00545	1	10/19/2018 17:20	WG1183540
Styrene	U		0.00297	0.0136	1	10/19/2018 17:20	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000545	0.00272	1	10/19/2018 17:20	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000425	0.00272	1	10/23/2018 02:18	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000735	0.00272	1	10/23/2018 02:18	WG1184696
Tetrachloroethene	1.23		0.000763	0.00272	1	10/19/2018 17:20	WG1183540
Toluene	U		0.00136	0.00545	1	10/19/2018 17:20	WG1183540
1,2,3-Trichlorobenzene	U		0.000681	0.00272	1	10/23/2018 02:18	WG1184696
1,2,4-Trichlorobenzene	U		0.00525	0.0136	1	10/19/2018 17:20	WG1183540
1,1,1-Trichloroethane	U		0.000300	0.00272	1	10/19/2018 17:20	WG1183540
1,1,2-Trichloroethane	U		0.000962	0.00272	1	10/19/2018 17:20	WG1183540
Trichloroethene	0.0362		0.000436	0.00109	1	10/19/2018 17:20	WG1183540
Trichlorofluoromethane	U		0.000545	0.00272	1	10/19/2018 17:20	WG1183540
1,2,3-Trichloropropane	U		0.00556	0.0136	1	10/19/2018 17:20	WG1183540
1,2,4-Trimethylbenzene	U		0.00126	0.00545	1	10/19/2018 17:20	WG1183540
1,2,3-Trimethylbenzene	U		0.00125	0.00545	1	10/19/2018 17:20	WG1183540
1,3,5-Trimethylbenzene	U		0.00118	0.00545	1	10/19/2018 17:20	WG1183540
Vinyl acetate	U		0.00384	0.0136	1	10/19/2018 17:20	WG1183540
Vinyl chloride	0.00247 J	J	0.000744	0.00272	1	10/23/2018 02:18	WG1184696
Xylenes, Total	U		0.00521	0.00708	1	10/19/2018 17:20	WG1183540
(S) Toluene-d8	*102*			*75.0-131*		*10/19/2018 17:20*	WG1183540
(S) Toluene-d8	*98.9*			*75.0-131*		*10/23/2018 02:18*	WG1184696
(S) Dibromofluoromethane	*94.4*			*65.0-129*		*10/19/2018 17:20*	WG1183540
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/23/2018 02:18*	WG1184696
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*		*10/19/2018 17:20*	WG1183540
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/23/2018 02:18*	WG1184696

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.5		1	10/22/2018 11:24	WG1184403

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.580	1.06	40	10/23/2018 07:18	WG1184696
Acrylonitrile	U			0.00201	0.0132	1	10/19/2018 18:07	WG1183540
Benzene	U			0.000423	0.00106	1	10/19/2018 18:07	WG1183540
Bromobenzene	U			0.00111	0.0132	1	10/19/2018 18:07	WG1183540
Bromodichloromethane	U			0.000834	0.00265	1	10/19/2018 18:07	WG1183540
Bromochloromethane	U			0.00120	0.00529	1	10/19/2018 18:07	WG1183540
Bromoform	U			0.00633	0.0265	1	10/19/2018 18:07	WG1183540
Bromomethane	U			0.00392	0.0132	1	10/19/2018 18:07	WG1183540
n-Butylbenzene	U			0.00406	0.0132	1	10/19/2018 18:07	WG1183540
sec-Butylbenzene	U			0.00268	0.0132	1	10/19/2018 18:07	WG1183540
tert-Butylbenzene	U			0.00164	0.00529	1	10/19/2018 18:07	WG1183540
Carbon disulfide	U	UJ	J0	0.00430	0.0132	1	10/19/2018 18:07	WG1183540
Carbon tetrachloride	U			0.00114	0.00529	1	10/19/2018 18:07	WG1183540
Chlorobenzene	U			0.000607	0.00265	1	10/19/2018 18:07	WG1183540
Chlorodibromomethane	U			0.000476	0.00265	1	10/19/2018 18:07	WG1183540
Chloroethane	U			0.00114	0.00529	1	10/19/2018 18:07	WG1183540
Chloroform	U			0.000439	0.00265	1	10/19/2018 18:07	WG1183540
Chloromethane	U			0.00147	0.0132	1	10/19/2018 18:07	WG1183540
2-Chlorotoluene	U			0.000974	0.00265	1	10/19/2018 18:07	WG1183540
4-Chlorotoluene	U			0.00120	0.00529	1	10/19/2018 18:07	WG1183540
1,2-Dibromo-3-Chloropropane	U			0.00540	0.0265	1	10/19/2018 18:07	WG1183540
1,2-Dibromoethane	U			0.000556	0.00265	1	10/19/2018 18:07	WG1183540
Dibromomethane	U			0.00106	0.00529	1	10/19/2018 18:07	WG1183540
1,2-Dichlorobenzene	U			0.00153	0.00529	1	10/19/2018 18:07	WG1183540
1,3-Dichlorobenzene	U			0.00180	0.00529	1	10/19/2018 18:07	WG1183540
1,4-Dichlorobenzene	U			0.00209	0.00529	1	10/19/2018 18:07	WG1183540
Dichlorodifluoromethane	U	U	J4	0.0346	0.106	40	10/23/2018 07:18	WG1184696
1,1-Dichloroethane	U			0.000609	0.00265	1	10/19/2018 18:07	WG1183540
1,2-Dichloroethane	U			0.000503	0.00265	1	10/19/2018 18:07	WG1183540
1,1-Dichloroethene	0.00498			0.000529	0.00265	1	10/19/2018 18:07	WG1183540
cis-1,2-Dichloroethene	2.74			0.0292	0.106	40	10/23/2018 07:18	WG1184696
trans-1,2-Dichloroethene	0.00577			0.00151	0.00529	1	10/19/2018 18:07	WG1183540
1,2-Dichloropropane	U			0.00134	0.00529	1	10/19/2018 18:07	WG1183540
1,1-Dichloropropene	U			0.000741	0.00265	1	10/19/2018 18:07	WG1183540
1,3-Dichloropropane	U			0.00185	0.00529	1	10/19/2018 18:07	WG1183540
cis-1,3-Dichloropropene	U			0.000718	0.00265	1	10/19/2018 18:07	WG1183540
trans-1,3-Dichloropropene	U	U	J4	0.00162	0.00529	1	10/19/2018 18:07	WG1183540
trans-1,4-Dichloro-2-butene	U			0.00148	0.00529	1	10/19/2018 18:07	WG1183540
2,2-Dichloropropane	U			0.000839	0.00265	1	10/19/2018 18:07	WG1183540
Di-isopropyl ether	U			0.000370	0.00106	1	10/19/2018 18:07	WG1183540
Ethylbenzene	0.000720	J	J J0	0.000561	0.00265	1	10/19/2018 18:07	WG1183540
Hexachloro-1,3-butadiene	U			0.0134	0.0265	1	10/19/2018 18:07	WG1183540
2-Hexanone	U			0.0106	0.0265	1	10/19/2018 18:07	WG1183540
n-Hexane	0.00438	J	J J0 J4	0.00112	0.00529	1	10/19/2018 18:07	WG1183540
Iodomethane	U			0.00640	0.0132	1	10/19/2018 18:07	WG1183540
Isopropylbenzene	U			0.000914	0.00265	1	10/19/2018 18:07	WG1183540
p-Isopropyltoluene	U			0.00247	0.00529	1	10/19/2018 18:07	WG1183540
2-Butanone (MEK)	0.0330	J	B J4	0.0132	0.0265	1	10/19/2018 18:07	WG1183540
Methylene Chloride	U			0.00703	0.0265	1	10/19/2018 18:07	WG1183540
4-Methyl-2-pentanone (MIBK)	U			0.0106	0.0265	1	10/19/2018 18:07	WG1183540

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000312	0.00106	1	10/19/2018 18:07	WG1183540
Naphthalene	U		0.00330	0.0132	1	10/19/2018 18:07	WG1183540
n-Propylbenzene	U		0.00125	0.00529	1	10/19/2018 18:07	WG1183540
Styrene	U		0.00289	0.0132	1	10/19/2018 18:07	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000529	0.00265	1	10/19/2018 18:07	WG1183540
1,1,2,2-Tetrachloroethane	U		0.0165	0.106	40	10/23/2018 07:18	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.0286	0.106	40	10/23/2018 07:18	WG1184696
Tetrachloroethene	18.9		0.0296	0.106	40	10/23/2018 07:18	WG1184696
Toluene	U		0.00132	0.00529	1	10/19/2018 18:07	WG1183540
1,2,3-Trichlorobenzene	U		0.0265	0.106	40	10/23/2018 07:18	WG1184696
1,2,4-Trichlorobenzene	U		0.00510	0.0132	1	10/19/2018 18:07	WG1183540
1,1,1-Trichloroethane	U		0.000291	0.00265	1	10/19/2018 18:07	WG1183540
1,1,2-Trichloroethane	U		0.000935	0.00265	1	10/19/2018 18:07	WG1183540
Trichloroethene	3.11		0.0169	0.0423	40	10/24/2018 17:24	WG1185916
Trichlorofluoromethane	U		0.000529	0.00265	1	10/19/2018 18:07	WG1183540
1,2,3-Trichloropropane	U		0.00540	0.0132	1	10/19/2018 18:07	WG1183540
1,2,4-Trimethylbenzene	0.00387 J	J	0.00123	0.00529	1	10/19/2018 18:07	WG1183540
1,2,3-Trimethylbenzene	0.00196 J	J	0.00122	0.00529	1	10/19/2018 18:07	WG1183540
1,3,5-Trimethylbenzene	0.00130 J	J	0.00114	0.00529	1	10/19/2018 18:07	WG1183540
Vinyl acetate	U		0.00373	0.0132	1	10/19/2018 18:07	WG1183540
Vinyl chloride	0.0532 J	J	0.0289	0.106	40	10/23/2018 07:18	WG1184696
Xylenes, Total	U		0.00506	0.00688	1	10/19/2018 18:07	WG1183540
(S) Toluene-d8	*105*			*75.0-131*		*10/19/2018 18:07*	WG1183540
(S) Toluene-d8	*97.7*			*75.0-131*		*10/23/2018 07:18*	WG1184696
(S) Toluene-d8	*119*			*75.0-131*		*10/24/2018 17:24*	WG1185916
(S) Dibromofluoromethane	*95.2*			*65.0-129*		*10/19/2018 18:07*	WG1183540
(S) Dibromofluoromethane	*117*			*65.0-129*		*10/23/2018 07:18*	WG1184696
(S) Dibromofluoromethane	*96.8*			*65.0-129*		*10/24/2018 17:24*	WG1185916
(S) 4-Bromofluorobenzene	*89.2*			*67.0-138*		*10/19/2018 18:07*	WG1183540
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*10/23/2018 07:18*	WG1184696
(S) 4-Bromofluorobenzene	*94.8*			*67.0-138*		*10/24/2018 17:24*	WG1185916

Sample Narrative:

L1035515-10 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-10 WG1184696, WG1183540: Not all compounds reportable from lower dilution.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.5		1	10/22/2018 11:24	WG1184403

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0160	0.0292	1	10/23/2018 02:38	WG1184696
Acrylonitrile	U		0.00222	0.0146	1	10/19/2018 18:25	WG1183540
Benzene	U		0.000468	0.00117	1	10/19/2018 18:25	WG1183540
Bromobenzene	U		0.00123	0.0146	1	10/19/2018 18:25	WG1183540
Bromodichloromethane	U		0.000921	0.00292	1	10/19/2018 18:25	WG1183540
Bromochloromethane	U		0.00132	0.00585	1	10/19/2018 18:25	WG1183540
Bromoform	U		0.00699	0.0292	1	10/19/2018 18:25	WG1183540
Bromomethane	U		0.00433	0.0146	1	10/19/2018 18:25	WG1183540
n-Butylbenzene	U		0.00449	0.0146	1	10/19/2018 18:25	WG1183540
sec-Butylbenzene	U		0.00296	0.0146	1	10/19/2018 18:25	WG1183540
tert-Butylbenzene	U		0.00181	0.00585	1	10/19/2018 18:25	WG1183540
Carbon disulfide	U	UJ J0	0.00475	0.0146	1	10/19/2018 18:25	WG1183540
Carbon tetrachloride	U		0.00126	0.00585	1	10/19/2018 18:25	WG1183540
Chlorobenzene	U		0.000670	0.00292	1	10/19/2018 18:25	WG1183540
Chlorodibromomethane	U		0.000526	0.00292	1	10/19/2018 18:25	WG1183540
Chloroethane	U		0.00126	0.00585	1	10/19/2018 18:25	WG1183540
Chloroform	U		0.000485	0.00292	1	10/19/2018 18:25	WG1183540
Chloromethane	U		0.00163	0.0146	1	10/19/2018 18:25	WG1183540
2-Chlorotoluene	U		0.00108	0.00292	1	10/19/2018 18:25	WG1183540
4-Chlorotoluene	U		0.00132	0.00585	1	10/19/2018 18:25	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00596	0.0292	1	10/19/2018 18:25	WG1183540
1,2-Dibromoethane	U		0.000614	0.00292	1	10/19/2018 18:25	WG1183540
Dibromomethane	U		0.00117	0.00585	1	10/19/2018 18:25	WG1183540
1,2-Dichlorobenzene	U		0.00170	0.00585	1	10/19/2018 18:25	WG1183540
1,3-Dichlorobenzene	U		0.00199	0.00585	1	10/19/2018 18:25	WG1183540
1,4-Dichlorobenzene	U		0.00230	0.00585	1	10/19/2018 18:25	WG1183540
Dichlorodifluoromethane	U	U J4	0.000957	0.00292	1	10/23/2018 02:38	WG1184696
1,1-Dichloroethane	U		0.000672	0.00292	1	10/19/2018 18:25	WG1183540
1,2-Dichloroethane	U		0.000555	0.00292	1	10/19/2018 18:25	WG1183540
1,1-Dichloroethene	U		0.000585	0.00292	1	10/19/2018 18:25	WG1183540
cis-1,2-Dichloroethene	0.0273		0.000807	0.00292	1	10/23/2018 02:38	WG1184696
trans-1,2-Dichloroethene	U		0.00167	0.00585	1	10/19/2018 18:25	WG1183540
1,2-Dichloropropane	U		0.00149	0.00585	1	10/19/2018 18:25	WG1183540
1,1-Dichloropropene	U		0.000819	0.00292	1	10/19/2018 18:25	WG1183540
1,3-Dichloropropane	U		0.00205	0.00585	1	10/19/2018 18:25	WG1183540
cis-1,3-Dichloropropene	U		0.000793	0.00292	1	10/19/2018 18:25	WG1183540
trans-1,3-Dichloropropene	U	U J4	0.00179	0.00585	1	10/19/2018 18:25	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00164	0.00585	1	10/19/2018 18:25	WG1183540
2,2-Dichloropropane	U		0.000927	0.00292	1	10/19/2018 18:25	WG1183540
Di-isopropyl ether	U		0.000409	0.00117	1	10/19/2018 18:25	WG1183540
Ethylbenzene	U	UJ J0	0.000620	0.00292	1	10/19/2018 18:25	WG1183540
Hexachloro-1,3-butadiene	U		0.0149	0.0292	1	10/19/2018 18:25	WG1183540
2-Hexanone	U		0.0117	0.0292	1	10/19/2018 18:25	WG1183540
n-Hexane	U	UJ J0 J4	0.00124	0.00585	1	10/19/2018 18:25	WG1183540
Iodomethane	U		0.00707	0.0146	1	10/19/2018 18:25	WG1183540
Isopropylbenzene	U		0.00101	0.00292	1	10/19/2018 18:25	WG1183540
p-Isopropyltoluene	U		0.00272	0.00585	1	10/19/2018 18:25	WG1183540
2-Butanone (MEK)	0.0576	J B J4	0.0146	0.0292	1	10/19/2018 18:25	WG1183540
Methylene Chloride	U		0.00776	0.0292	1	10/19/2018 18:25	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	10/19/2018 18:25	WG1183540

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B-256-2.5

Collected date/time: 10/16/18 14:06

SAMPLE RESULTS - 11

L1035515

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	10/19/2018 18:25	WG1183540
Naphthalene	U		0.00365	0.0146	1	10/19/2018 18:25	WG1183540
n-Propylbenzene	U		0.00138	0.00585	1	10/19/2018 18:25	WG1183540
Styrene	U		0.00319	0.0146	1	10/19/2018 18:25	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000585	0.00292	1	10/19/2018 18:25	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	10/23/2018 02:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000789	0.00292	1	10/23/2018 02:38	WG1184696
Tetrachloroethene	0.0550		0.000819	0.00292	1	10/23/2018 02:38	WG1184696
Toluene	U		0.00146	0.00585	1	10/19/2018 18:25	WG1183540
1,2,3-Trichlorobenzene	U		0.000731	0.00292	1	10/23/2018 02:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00564	0.0146	1	10/19/2018 18:25	WG1183540
1,1,1-Trichloroethane	U		0.000322	0.00292	1	10/19/2018 18:25	WG1183540
1,1,2-Trichloroethane	U		0.00103	0.00292	1	10/19/2018 18:25	WG1183540
Trichloroethene	0.0532		0.000468	0.00117	1	10/24/2018 16:42	WG1185916
Trichlorofluoromethane	U		0.000585	0.00292	1	10/19/2018 18:25	WG1183540
1,2,3-Trichloropropane	U		0.00596	0.0146	1	10/19/2018 18:25	WG1183540
1,2,4-Trimethylbenzene	U		0.00136	0.00585	1	10/19/2018 18:25	WG1183540
1,2,3-Trimethylbenzene	U		0.00134	0.00585	1	10/19/2018 18:25	WG1183540
1,3,5-Trimethylbenzene	U		0.00126	0.00585	1	10/19/2018 18:25	WG1183540
Vinyl acetate	U		0.00412	0.0146	1	10/19/2018 18:25	WG1183540
Vinyl chloride	0.0123		0.000799	0.00292	1	10/23/2018 02:38	WG1184696
Xylenes, Total	U		0.00559	0.00760	1	10/19/2018 18:25	WG1183540
(S) Toluene-d8	*100*			*75.0-131*		*10/19/2018 18:25*	WG1183540
(S) Toluene-d8	*99.7*			*75.0-131*		*10/23/2018 02:38*	WG1184696
(S) Toluene-d8	*126*			*75.0-131*		*10/24/2018 16:42*	WG1185916
(S) Dibromofluoromethane	*93.3*			*65.0-129*		*10/19/2018 18:25*	WG1183540
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/23/2018 02:38*	WG1184696
(S) Dibromofluoromethane	*94.6*			*65.0-129*		*10/24/2018 16:42*	WG1185916
(S) 4-Bromofluorobenzene	*90.4*			*67.0-138*		*10/19/2018 18:25*	WG1183540
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/23/2018 02:38*	WG1184696
(S) 4-Bromofluorobenzene	*90.3*			*67.0-138*		*10/24/2018 16:42*	WG1185916

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.5		1	10/22/2018 11:24	WG1184403

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0151	0.0276	1	10/23/2018 02:58	WG1184696
Acrylonitrile	U			0.00210	0.0138	1	10/19/2018 18:44	WG1183540
Benzene	U			0.000442	0.00110	1	10/19/2018 18:44	WG1183540
Bromobenzene	U			0.00116	0.0138	1	10/19/2018 18:44	WG1183540
Bromodichloromethane	U			0.000871	0.00276	1	10/19/2018 18:44	WG1183540
Bromochloromethane	U			0.00125	0.00552	1	10/19/2018 18:44	WG1183540
Bromoform	U			0.00661	0.0276	1	10/19/2018 18:44	WG1183540
Bromomethane	U			0.00409	0.0138	1	10/19/2018 18:44	WG1183540
n-Butylbenzene	U			0.00424	0.0138	1	10/19/2018 18:44	WG1183540
sec-Butylbenzene	U			0.00279	0.0138	1	10/19/2018 18:44	WG1183540
tert-Butylbenzene	U			0.00171	0.00552	1	10/19/2018 18:44	WG1183540
Carbon disulfide	U	UJ	J0	0.00449	0.0138	1	10/19/2018 18:44	WG1183540
Carbon tetrachloride	U			0.00119	0.00552	1	10/19/2018 18:44	WG1183540
Chlorobenzene	U			0.000633	0.00276	1	10/19/2018 18:44	WG1183540
Chlorodibromomethane	U			0.000497	0.00276	1	10/19/2018 18:44	WG1183540
Chloroethane	U			0.00119	0.00552	1	10/19/2018 18:44	WG1183540
Chloroform	U			0.000458	0.00276	1	10/19/2018 18:44	WG1183540
Chloromethane	U			0.00154	0.0138	1	10/19/2018 18:44	WG1183540
2-Chlorotoluene	U			0.00102	0.00276	1	10/19/2018 18:44	WG1183540
4-Chlorotoluene	U			0.00125	0.00552	1	10/19/2018 18:44	WG1183540
1,2-Dibromo-3-Chloropropane	U			0.00563	0.0276	1	10/19/2018 18:44	WG1183540
1,2-Dibromoethane	U			0.000580	0.00276	1	10/19/2018 18:44	WG1183540
Dibromomethane	U			0.00110	0.00552	1	10/19/2018 18:44	WG1183540
1,2-Dichlorobenzene	U			0.00160	0.00552	1	10/19/2018 18:44	WG1183540
1,3-Dichlorobenzene	U			0.00188	0.00552	1	10/19/2018 18:44	WG1183540
1,4-Dichlorobenzene	U			0.00218	0.00552	1	10/19/2018 18:44	WG1183540
Dichlorodifluoromethane	U	U	J4	0.000904	0.00276	1	10/23/2018 02:58	WG1184696
1,1-Dichloroethane	U			0.000635	0.00276	1	10/19/2018 18:44	WG1183540
1,2-Dichloroethane	U			0.000525	0.00276	1	10/19/2018 18:44	WG1183540
1,1-Dichloroethene	U			0.000552	0.00276	1	10/19/2018 18:44	WG1183540
cis-1,2-Dichloroethene	0.0190			0.000762	0.00276	1	10/23/2018 02:58	WG1184696
trans-1,2-Dichloroethene	U			0.00158	0.00552	1	10/19/2018 18:44	WG1183540
1,2-Dichloropropane	U			0.00140	0.00552	1	10/19/2018 18:44	WG1183540
1,1-Dichloropropene	U			0.000773	0.00276	1	10/19/2018 18:44	WG1183540
1,3-Dichloropropane	U			0.00193	0.00552	1	10/19/2018 18:44	WG1183540
cis-1,3-Dichloropropene	U			0.000749	0.00276	1	10/19/2018 18:44	WG1183540
trans-1,3-Dichloropropene	U	U	J4	0.00169	0.00552	1	10/19/2018 18:44	WG1183540
trans-1,4-Dichloro-2-butene	U			0.00155	0.00552	1	10/19/2018 18:44	WG1183540
2,2-Dichloropropane	U			0.000876	0.00276	1	10/19/2018 18:44	WG1183540
Di-isopropyl ether	U			0.000387	0.00110	1	10/19/2018 18:44	WG1183540
Ethylbenzene	U	UJ	J0	0.000585	0.00276	1	10/19/2018 18:44	WG1183540
Hexachloro-1,3-butadiene	U			0.0140	0.0276	1	10/19/2018 18:44	WG1183540
2-Hexanone	U			0.0110	0.0276	1	10/19/2018 18:44	WG1183540
n-Hexane	0.00347	J	J J0 J4	0.00117	0.00552	1	10/19/2018 18:44	WG1183540
Iodomethane	U			0.00668	0.0138	1	10/19/2018 18:44	WG1183540
Isopropylbenzene	U			0.000953	0.00276	1	10/19/2018 18:44	WG1183540
p-Isopropyltoluene	U			0.00257	0.00552	1	10/19/2018 18:44	WG1183540
2-Butanone (MEK)	0.0448	J	B J4	0.0138	0.0276	1	10/19/2018 18:44	WG1183540
Methylene Chloride	U			0.00734	0.0276	1	10/19/2018 18:44	WG1183540
4-Methyl-2-pentanone (MIBK)	U			0.0110	0.0276	1	10/19/2018 18:44	WG1183540

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000326	0.00110	1	10/19/2018 18:44	WG1183540
Naphthalene	U		0.00345	0.0138	1	10/19/2018 18:44	WG1183540
n-Propylbenzene	U		0.00130	0.00552	1	10/19/2018 18:44	WG1183540
Styrene	U		0.00302	0.0138	1	10/19/2018 18:44	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000552	0.00276	1	10/19/2018 18:44	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000431	0.00276	1	10/23/2018 02:58	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000746	0.00276	1	10/23/2018 02:58	WG1184696
Tetrachloroethene	0.0193		0.000773	0.00276	1	10/23/2018 02:58	WG1184696
Toluene	U		0.00138	0.00552	1	10/19/2018 18:44	WG1183540
1,2,3-Trichlorobenzene	U		0.000690	0.00276	1	10/23/2018 02:58	WG1184696
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	10/19/2018 18:44	WG1183540
1,1,1-Trichloroethane	U		0.000304	0.00276	1	10/19/2018 18:44	WG1183540
1,1,2-Trichloroethane	U		0.000975	0.00276	1	10/19/2018 18:44	WG1183540
Trichloroethene	0.0162	J	0.000442	0.00110	1	10/24/2018 17:03	WG1185916
Trichlorofluoromethane	U		0.000552	0.00276	1	10/19/2018 18:44	WG1183540
1,2,3-Trichloropropane	U		0.00563	0.0138	1	10/19/2018 18:44	WG1183540
1,2,4-Trimethylbenzene	U		0.00128	0.00552	1	10/19/2018 18:44	WG1183540
1,2,3-Trimethylbenzene	U		0.00127	0.00552	1	10/19/2018 18:44	WG1183540
1,3,5-Trimethylbenzene	U		0.00119	0.00552	1	10/19/2018 18:44	WG1183540
Vinyl acetate	U		0.00389	0.0138	1	10/19/2018 18:44	WG1183540
Vinyl chloride	0.0155		0.000755	0.00276	1	10/23/2018 02:58	WG1184696
Xylenes, Total	U		0.00528	0.00718	1	10/19/2018 18:44	WG1183540
(S) Toluene-d8	*104*			*75.0-131*		*10/19/2018 18:44*	WG1183540
(S) Toluene-d8	*101*			*75.0-131*		*10/23/2018 02:58*	WG1184696
(S) Toluene-d8	*134*	J1		*75.0-131*		*10/24/2018 17:03*	WG1185916
(S) Dibromofluoromethane	*93.1*			*65.0-129*		*10/19/2018 18:44*	WG1183540
(S) Dibromofluoromethane	*117*			*65.0-129*		*10/23/2018 02:58*	WG1184696
(S) Dibromofluoromethane	*90.7*			*65.0-129*		*10/24/2018 17:03*	WG1185916
(S) 4-Bromofluorobenzene	*85.9*			*67.0-138*		*10/19/2018 18:44*	WG1183540
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/23/2018 02:58*	WG1184696
(S) 4-Bromofluorobenzene	*90.8*			*67.0-138*		*10/24/2018 17:03*	WG1185916

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.6		1	10/22/2018 10:53	WG1184404

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0146	0.0267	1	10/23/2018 03:18	WG1184696
Acrylonitrile	U		0.00203	0.0134	1	10/19/2018 19:02	WG1183540
Benzene	U		0.000427	0.00107	1	10/19/2018 19:02	WG1183540
Bromobenzene	U		0.00112	0.0134	1	10/19/2018 19:02	WG1183540
Bromodichloromethane	U		0.000842	0.00267	1	10/19/2018 19:02	WG1183540
Bromochloromethane	U		0.00121	0.00534	1	10/19/2018 19:02	WG1183540
Bromoform	U		0.00639	0.0267	1	10/19/2018 19:02	WG1183540
Bromomethane	U		0.00395	0.0134	1	10/19/2018 19:02	WG1183540
n-Butylbenzene	U		0.00410	0.0134	1	10/19/2018 19:02	WG1183540
sec-Butylbenzene	U		0.00270	0.0134	1	10/19/2018 19:02	WG1183540
tert-Butylbenzene	U		0.00166	0.00534	1	10/19/2018 19:02	WG1183540
Carbon disulfide	U UJ	J0	0.00434	0.0134	1	10/19/2018 19:02	WG1183540
Carbon tetrachloride	U		0.00115	0.00534	1	10/19/2018 19:02	WG1183540
Chlorobenzene	U		0.000612	0.00267	1	10/19/2018 19:02	WG1183540
Chlorodibromomethane	U		0.000481	0.00267	1	10/19/2018 19:02	WG1183540
Chloroethane	U		0.00115	0.00534	1	10/19/2018 19:02	WG1183540
Chloroform	U		0.000443	0.00267	1	10/19/2018 19:02	WG1183540
Chloromethane	U		0.00149	0.0134	1	10/19/2018 19:02	WG1183540
2-Chlorotoluene	U		0.000983	0.00267	1	10/19/2018 19:02	WG1183540
4-Chlorotoluene	U		0.00121	0.00534	1	10/19/2018 19:02	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00545	0.0267	1	10/19/2018 19:02	WG1183540
1,2-Dibromoethane	U		0.000561	0.00267	1	10/19/2018 19:02	WG1183540
Dibromomethane	U		0.00107	0.00534	1	10/19/2018 19:02	WG1183540
1,2-Dichlorobenzene	U		0.00155	0.00534	1	10/19/2018 19:02	WG1183540
1,3-Dichlorobenzene	U		0.00182	0.00534	1	10/19/2018 19:02	WG1183540
1,4-Dichlorobenzene	U		0.00211	0.00534	1	10/19/2018 19:02	WG1183540
Dichlorodifluoromethane	U U	J4	0.000874	0.00267	1	10/23/2018 03:18	WG1184696
1,1-Dichloroethane	U		0.000614	0.00267	1	10/19/2018 19:02	WG1183540
1,2-Dichloroethane	U		0.000508	0.00267	1	10/19/2018 19:02	WG1183540
1,1-Dichloroethene	0.00420		0.000534	0.00267	1	10/19/2018 19:02	WG1183540
cis-1,2-Dichloroethene	0.548		0.000737	0.00267	1	10/19/2018 19:02	WG1183540
trans-1,2-Dichloroethene	0.00197 J	J	0.00153	0.00534	1	10/19/2018 19:02	WG1183540
1,2-Dichloropropane	U		0.00136	0.00534	1	10/19/2018 19:02	WG1183540
1,1-Dichloropropene	U		0.000748	0.00267	1	10/19/2018 19:02	WG1183540
1,3-Dichloropropane	U		0.00187	0.00534	1	10/19/2018 19:02	WG1183540
cis-1,3-Dichloropropene	U		0.000724	0.00267	1	10/19/2018 19:02	WG1183540
trans-1,3-Dichloropropene	U U	J4	0.00163	0.00534	1	10/19/2018 19:02	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00150	0.00534	1	10/19/2018 19:02	WG1183540
2,2-Dichloropropane	U		0.000847	0.00267	1	10/19/2018 19:02	WG1183540
Di-isopropyl ether	U		0.000374	0.00107	1	10/19/2018 19:02	WG1183540
Ethylbenzene	U UJ	J0	0.000566	0.00267	1	10/19/2018 19:02	WG1183540
Hexachloro-1,3-butadiene	U		0.0136	0.0267	1	10/19/2018 19:02	WG1183540
2-Hexanone	U		0.0107	0.0267	1	10/19/2018 19:02	WG1183540
n-Hexane	0.00527 J	J J0 J4	0.00113	0.00534	1	10/19/2018 19:02	WG1183540
Iodomethane	U		0.00646	0.0134	1	10/19/2018 19:02	WG1183540
Isopropylbenzene	U		0.000922	0.00267	1	10/19/2018 19:02	WG1183540
p-Isopropyltoluene	U		0.00249	0.00534	1	10/19/2018 19:02	WG1183540
2-Butanone (MEK)	0.0312 J	B J4	0.0134	0.0267	1	10/19/2018 19:02	WG1183540
Methylene Chloride	U		0.00710	0.0267	1	10/19/2018 19:02	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	10/19/2018 19:02	WG1183540

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B-256-10

Collected date/time: 10/16/18 14:18

SAMPLE RESULTS - 13

L1035515

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000315	0.00107	1	10/19/2018 19:02	WG1183540
Naphthalene	U		0.00333	0.0134	1	10/19/2018 19:02	WG1183540
n-Propylbenzene	U		0.00126	0.00534	1	10/19/2018 19:02	WG1183540
Styrene	U		0.00292	0.0134	1	10/19/2018 19:02	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000534	0.00267	1	10/19/2018 19:02	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000417	0.00267	1	10/23/2018 03:18	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000721	0.00267	1	10/23/2018 03:18	WG1184696
Tetrachloroethene	0.589		0.000748	0.00267	1	10/19/2018 19:02	WG1183540
Toluene	U		0.00134	0.00534	1	10/19/2018 19:02	WG1183540
1,2,3-Trichlorobenzene	U		0.000668	0.00267	1	10/23/2018 03:18	WG1184696
1,2,4-Trichlorobenzene	U		0.00515	0.0134	1	10/19/2018 19:02	WG1183540
1,1,1-Trichloroethane	U		0.000294	0.00267	1	10/19/2018 19:02	WG1183540
1,1,2-Trichloroethane	U		0.000944	0.00267	1	10/19/2018 19:02	WG1183540
Trichloroethene	0.182		0.000427	0.00107	1	10/19/2018 19:02	WG1183540
Trichlorofluoromethane	U		0.000534	0.00267	1	10/19/2018 19:02	WG1183540
1,2,3-Trichloropropane	U		0.00545	0.0134	1	10/19/2018 19:02	WG1183540
1,2,4-Trimethylbenzene	U		0.00124	0.00534	1	10/19/2018 19:02	WG1183540
1,2,3-Trimethylbenzene	U		0.00123	0.00534	1	10/19/2018 19:02	WG1183540
1,3,5-Trimethylbenzene	U		0.00115	0.00534	1	10/19/2018 19:02	WG1183540
Vinyl acetate	U		0.00376	0.0134	1	10/19/2018 19:02	WG1183540
Vinyl chloride	0.0359		0.000730	0.00267	1	10/23/2018 03:18	WG1184696
Xylenes, Total	U		0.00511	0.00695	1	10/19/2018 19:02	WG1183540
(S) Toluene-d8	*102*			*75.0-131*		*10/19/2018 19:02*	WG1183540
(S) Toluene-d8	*99.2*			*75.0-131*		*10/23/2018 03:18*	WG1184696
(S) Dibromofluoromethane	*95.4*			*65.0-129*		*10/19/2018 19:02*	WG1183540
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/23/2018 03:18*	WG1184696
(S) 4-Bromofluorobenzene	*90.0*			*67.0-138*		*10/19/2018 19:02*	WG1183540
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/23/2018 03:18*	WG1184696

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.4		1	10/22/2018 10:53	WG1184404

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0152	0.0277	1	10/23/2018 03:38	WG1184696
Acrylonitrile	U		0.00210	0.0138	1	10/19/2018 19:21	WG1183540
Benzene	U		0.000443	0.00111	1	10/19/2018 19:21	WG1183540
Bromobenzene	U		0.00116	0.0138	1	10/19/2018 19:21	WG1183540
Bromodichloromethane	U		0.000872	0.00277	1	10/19/2018 19:21	WG1183540
Bromochloromethane	U		0.00125	0.00553	1	10/19/2018 19:21	WG1183540
Bromoform	U		0.00662	0.0277	1	10/19/2018 19:21	WG1183540
Bromomethane	U		0.00409	0.0138	1	10/19/2018 19:21	WG1183540
n-Butylbenzene	U		0.00425	0.0138	1	10/19/2018 19:21	WG1183540
sec-Butylbenzene	U		0.00280	0.0138	1	10/19/2018 19:21	WG1183540
tert-Butylbenzene	U		0.00172	0.00553	1	10/19/2018 19:21	WG1183540
Carbon disulfide	U	UJ J0	0.00449	0.0138	1	10/19/2018 19:21	WG1183540
Carbon tetrachloride	U		0.00120	0.00553	1	10/19/2018 19:21	WG1183540
Chlorobenzene	U		0.000634	0.00277	1	10/19/2018 19:21	WG1183540
Chlorodibromomethane	U		0.000498	0.00277	1	10/19/2018 19:21	WG1183540
Chloroethane	U		0.00120	0.00553	1	10/19/2018 19:21	WG1183540
Chloroform	U		0.000459	0.00277	1	10/19/2018 19:21	WG1183540
Chloromethane	U		0.00154	0.0138	1	10/19/2018 19:21	WG1183540
2-Chlorotoluene	U		0.00102	0.00277	1	10/19/2018 19:21	WG1183540
4-Chlorotoluene	U		0.00125	0.00553	1	10/19/2018 19:21	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00564	0.0277	1	10/19/2018 19:21	WG1183540
1,2-Dibromoethane	U		0.000581	0.00277	1	10/19/2018 19:21	WG1183540
Dibromomethane	U		0.00111	0.00553	1	10/19/2018 19:21	WG1183540
1,2-Dichlorobenzene	U		0.00160	0.00553	1	10/19/2018 19:21	WG1183540
1,3-Dichlorobenzene	U		0.00188	0.00553	1	10/19/2018 19:21	WG1183540
1,4-Dichlorobenzene	U		0.00218	0.00553	1	10/19/2018 19:21	WG1183540
Dichlorodifluoromethane	U	U J4	0.000905	0.00277	1	10/23/2018 03:38	WG1184696
1,1-Dichloroethane	U		0.000636	0.00277	1	10/19/2018 19:21	WG1183540
1,2-Dichloroethane	U		0.000526	0.00277	1	10/19/2018 19:21	WG1183540
1,1-Dichloroethene	0.00114	J J	0.000553	0.00277	1	10/19/2018 19:21	WG1183540
cis-1,2-Dichloroethene	0.768		0.000764	0.00277	1	10/19/2018 19:21	WG1183540
trans-1,2-Dichloroethene	0.00510	J J	0.00158	0.00553	1	10/19/2018 19:21	WG1183540
1,2-Dichloropropane	U		0.00141	0.00553	1	10/19/2018 19:21	WG1183540
1,1-Dichloropropene	U		0.000775	0.00277	1	10/19/2018 19:21	WG1183540
1,3-Dichloropropane	U		0.00194	0.00553	1	10/19/2018 19:21	WG1183540
cis-1,3-Dichloropropene	U		0.000750	0.00277	1	10/19/2018 19:21	WG1183540
trans-1,3-Dichloropropene	U	U J4	0.00169	0.00553	1	10/19/2018 19:21	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00155	0.00553	1	10/19/2018 19:21	WG1183540
2,2-Dichloropropane	U		0.000878	0.00277	1	10/19/2018 19:21	WG1183540
Di-isopropyl ether	U		0.000387	0.00111	1	10/19/2018 19:21	WG1183540
Ethylbenzene	U	UJ J0	0.000587	0.00277	1	10/19/2018 19:21	WG1183540
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	10/19/2018 19:21	WG1183540
2-Hexanone	U		0.0111	0.0277	1	10/19/2018 19:21	WG1183540
n-Hexane	0.00313	J J J0 J4	0.00117	0.00553	1	10/19/2018 19:21	WG1183540
Iodomethane	U		0.00670	0.0138	1	10/19/2018 19:21	WG1183540
Isopropylbenzene	U		0.000955	0.00277	1	10/19/2018 19:21	WG1183540
p-Isopropyltoluene	U		0.00258	0.00553	1	10/19/2018 19:21	WG1183540
2-Butanone (MEK)	0.0292	J B J4	0.0138	0.0277	1	10/19/2018 19:21	WG1183540
Methylene Chloride	U		0.00735	0.0277	1	10/19/2018 19:21	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	10/19/2018 19:21	WG1183540

JC 11/15/18

B-256-15

SAMPLE RESULTS - 14

Collected date/time: 10/16/18 14:32

L1035515

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00111	1	10/19/2018 19:21	WG1183540
Naphthalene	U		0.00345	0.0138	1	10/19/2018 19:21	WG1183540
n-Propylbenzene	U		0.00131	0.00553	1	10/19/2018 19:21	WG1183540
Styrene	U		0.00302	0.0138	1	10/19/2018 19:21	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000553	0.00277	1	10/19/2018 19:21	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	10/23/2018 03:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000747	0.00277	1	10/23/2018 03:38	WG1184696
Tetrachloroethene	0.324		0.000775	0.00277	1	10/19/2018 19:21	WG1183540
Toluene	U		0.00138	0.00553	1	10/19/2018 19:21	WG1183540
1,2,3-Trichlorobenzene	U		0.000692	0.00277	1	10/23/2018 03:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00533	0.0138	1	10/19/2018 19:21	WG1183540
1,1,1-Trichloroethane	U		0.000304	0.00277	1	10/19/2018 19:21	WG1183540
1,1,2-Trichloroethane	U		0.000977	0.00277	1	10/19/2018 19:21	WG1183540
Trichloroethene	0.0863		0.000443	0.00111	1	10/19/2018 19:21	WG1183540
Trichlorofluoromethane	U		0.000553	0.00277	1	10/19/2018 19:21	WG1183540
1,2,3-Trichloropropane	U		0.00564	0.0138	1	10/19/2018 19:21	WG1183540
1,2,4-Trimethylbenzene	U		0.00128	0.00553	1	10/19/2018 19:21	WG1183540
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	10/19/2018 19:21	WG1183540
1,3,5-Trimethylbenzene	U		0.00120	0.00553	1	10/19/2018 19:21	WG1183540
Vinyl acetate	U		0.00390	0.0138	1	10/19/2018 19:21	WG1183540
Vinyl chloride	0.0715		0.000756	0.00277	1	10/23/2018 03:38	WG1184696
Xylenes, Total	U		0.00529	0.00719	1	10/19/2018 19:21	WG1183540
(S) Toluene-d8	*100*			*75.0-131*		*10/19/2018 19:21*	WG1183540
(S) Toluene-d8	*101*			*75.0-131*		*10/23/2018 03:38*	WG1184696
(S) Dibromofluoromethane	*94.4*			*65.0-129*		*10/19/2018 19:21*	WG1183540
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/23/2018 03:38*	WG1184696
(S) 4-Bromofluorobenzene	*91.9*			*67.0-138*		*10/19/2018 19:21*	WG1183540
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/23/2018 03:38*	WG1184696

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.4		1	10/22/2018 10:53	WG1184404

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0152	0.0277	1	10/23/2018 03:58	WG1184696
Acrylonitrile	U			0.00210	0.0138	1	10/19/2018 19:39	WG1183540
Benzene	U			0.000443	0.00111	1	10/19/2018 19:39	WG1183540
Bromobenzene	U			0.00116	0.0138	1	10/19/2018 19:39	WG1183540
Bromodichloromethane	U			0.000872	0.00277	1	10/19/2018 19:39	WG1183540
Bromochloromethane	U			0.00125	0.00553	1	10/19/2018 19:39	WG1183540
Bromoform	U			0.00662	0.0277	1	10/19/2018 19:39	WG1183540
Bromomethane	U			0.00409	0.0138	1	10/19/2018 19:39	WG1183540
n-Butylbenzene	U			0.00425	0.0138	1	10/19/2018 19:39	WG1183540
sec-Butylbenzene	U			0.00280	0.0138	1	10/19/2018 19:39	WG1183540
tert-Butylbenzene	U			0.00172	0.00553	1	10/19/2018 19:39	WG1183540
Carbon disulfide	U	UJ	J0	0.00449	0.0138	1	10/19/2018 19:39	WG1183540
Carbon tetrachloride	U			0.00120	0.00553	1	10/19/2018 19:39	WG1183540
Chlorobenzene	U			0.000634	0.00277	1	10/19/2018 19:39	WG1183540
Chlorodibromomethane	U			0.000498	0.00277	1	10/19/2018 19:39	WG1183540
Chloroethane	U			0.00120	0.00553	1	10/19/2018 19:39	WG1183540
Chloroform	U			0.000459	0.00277	1	10/19/2018 19:39	WG1183540
Chloromethane	U			0.00154	0.0138	1	10/19/2018 19:39	WG1183540
2-Chlorotoluene	U			0.00102	0.00277	1	10/19/2018 19:39	WG1183540
4-Chlorotoluene	U			0.00125	0.00553	1	10/19/2018 19:39	WG1183540
1,2-Dibromo-3-Chloropropane	U			0.00564	0.0277	1	10/19/2018 19:39	WG1183540
1,2-Dibromoethane	U			0.000581	0.00277	1	10/19/2018 19:39	WG1183540
Dibromomethane	U			0.00111	0.00553	1	10/19/2018 19:39	WG1183540
1,2-Dichlorobenzene	U			0.00160	0.00553	1	10/19/2018 19:39	WG1183540
1,3-Dichlorobenzene	U			0.00188	0.00553	1	10/19/2018 19:39	WG1183540
1,4-Dichlorobenzene	U			0.00218	0.00553	1	10/19/2018 19:39	WG1183540
Dichlorodifluoromethane	U	U	J4	0.000905	0.00277	1	10/23/2018 03:58	WG1184696
1,1-Dichloroethane	U			0.000636	0.00277	1	10/19/2018 19:39	WG1183540
1,2-Dichloroethane	U			0.000526	0.00277	1	10/19/2018 19:39	WG1183540
1,1-Dichloroethene	0.000814	J	J	0.000553	0.00277	1	10/19/2018 19:39	WG1183540
cis-1,2-Dichloroethene	0.143			0.000764	0.00277	1	10/19/2018 19:39	WG1183540
trans-1,2-Dichloroethene	U			0.00158	0.00553	1	10/19/2018 19:39	WG1183540
1,2-Dichloropropane	U			0.00141	0.00553	1	10/19/2018 19:39	WG1183540
1,1-Dichloropropene	U			0.000775	0.00277	1	10/19/2018 19:39	WG1183540
1,3-Dichloropropane	U			0.00194	0.00553	1	10/19/2018 19:39	WG1183540
cis-1,3-Dichloropropene	U			0.000750	0.00277	1	10/19/2018 19:39	WG1183540
trans-1,3-Dichloropropene	U	U	J4	0.00169	0.00553	1	10/19/2018 19:39	WG1183540
trans-1,4-Dichloro-2-butene	U			0.00155	0.00553	1	10/19/2018 19:39	WG1183540
2,2-Dichloropropane	U			0.000877	0.00277	1	10/19/2018 19:39	WG1183540
Di-isopropyl ether	U			0.000387	0.00111	1	10/19/2018 19:39	WG1183540
Ethylbenzene	U	UJ	J0	0.000586	0.00277	1	10/19/2018 19:39	WG1183540
Hexachloro-1,3-butadiene	U			0.0141	0.0277	1	10/19/2018 19:39	WG1183540
2-Hexanone	U			0.0111	0.0277	1	10/19/2018 19:39	WG1183540
n-Hexane	0.00386	J	J J0 J4	0.00117	0.00553	1	10/19/2018 19:39	WG1183540
Iodomethane	U			0.00669	0.0138	1	10/19/2018 19:39	WG1183540
Isopropylbenzene	U			0.000955	0.00277	1	10/19/2018 19:39	WG1183540
p-Isopropyltoluene	U			0.00258	0.00553	1	10/19/2018 19:39	WG1183540
2-Butanone (MEK)	U	U	J4	0.0138	0.0277	1	10/19/2018 19:39	WG1183540
Methylene Chloride	U			0.00735	0.0277	1	10/19/2018 19:39	WG1183540
4-Methyl-2-pentanone (MIBK)	U			0.0111	0.0277	1	10/19/2018 19:39	WG1183540

JC 11/15/18

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000326	0.00111	1	10/19/2018 19:39	WG1183540
Naphthalene	U		0.00345	0.0138	1	10/19/2018 19:39	WG1183540
n-Propylbenzene	U		0.00131	0.00553	1	10/19/2018 19:39	WG1183540
Styrene	U		0.00302	0.0138	1	10/19/2018 19:39	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000553	0.00277	1	10/19/2018 19:39	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	10/23/2018 03:58	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000747	0.00277	1	10/23/2018 03:58	WG1184696
Tetrachloroethene	0.207		0.000775	0.00277	1	10/19/2018 19:39	WG1183540
Toluene	U		0.00138	0.00553	1	10/19/2018 19:39	WG1183540
1,2,3-Trichlorobenzene	U		0.000692	0.00277	1	10/23/2018 03:58	WG1184696
1,2,4-Trichlorobenzene	U		0.00533	0.0138	1	10/19/2018 19:39	WG1183540
1,1,1-Trichloroethane	U		0.000304	0.00277	1	10/19/2018 19:39	WG1183540
1,1,2-Trichloroethane	U		0.000977	0.00277	1	10/19/2018 19:39	WG1183540
Trichloroethene	0.0126		0.000443	0.00111	1	10/19/2018 19:39	WG1183540
Trichlorofluoromethane	U		0.000553	0.00277	1	10/19/2018 19:39	WG1183540
1,2,3-Trichloropropane	U		0.00564	0.0138	1	10/19/2018 19:39	WG1183540
1,2,4-Trimethylbenzene	U		0.00128	0.00553	1	10/19/2018 19:39	WG1183540
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	10/19/2018 19:39	WG1183540
1,3,5-Trimethylbenzene	U		0.00120	0.00553	1	10/19/2018 19:39	WG1183540
Vinyl acetate	U		0.00390	0.0138	1	10/19/2018 19:39	WG1183540
Vinyl chloride	0.0170		0.000756	0.00277	1	10/23/2018 03:58	WG1184696
Xylenes, Total	U		0.00529	0.00719	1	10/19/2018 19:39	WG1183540
(S) Toluene-d8	*99.5*			*75.0-131*		*10/19/2018 19:39*	WG1183540
(S) Toluene-d8	*98.7*			*75.0-131*		*10/23/2018 03:58*	WG1184696
(S) Dibromofluoromethane	*95.7*			*65.0-129*		*10/19/2018 19:39*	WG1183540
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/23/2018 03:58*	WG1184696
(S) 4-Bromofluorobenzene	*87.2*			*67.0-138*		*10/19/2018 19:39*	WG1183540
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/23/2018 03:58*	WG1184696

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.6		1	10/24/2018 12:36	WG1184858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0166	0.0303	1	10/23/2018 04:17	WG1184696
Acrylonitrile	U		0.00230	0.0151	1	10/19/2018 19:58	WG1183540
Benzene	U		0.000484	0.00121	1	10/19/2018 19:58	WG1183540
Bromobenzene	U		0.00127	0.0151	1	10/19/2018 19:58	WG1183540
Bromodichloromethane	U		0.000954	0.00303	1	10/19/2018 19:58	WG1183540
Bromochloromethane	U		0.00137	0.00605	1	10/19/2018 19:58	WG1183540
Bromoform	U		0.00724	0.0303	1	10/19/2018 19:58	WG1183540
Bromomethane	U		0.00448	0.0151	1	10/19/2018 19:58	WG1183540
n-Butylbenzene	U		0.00465	0.0151	1	10/19/2018 19:58	WG1183540
sec-Butylbenzene	U		0.00306	0.0151	1	10/19/2018 19:58	WG1183540
tert-Butylbenzene	U		0.00188	0.00605	1	10/19/2018 19:58	WG1183540
Carbon disulfide	U UJ	J0	0.00492	0.0151	1	10/19/2018 19:58	WG1183540
Carbon tetrachloride	U		0.00131	0.00605	1	10/19/2018 19:58	WG1183540
Chlorobenzene	U		0.000694	0.00303	1	10/19/2018 19:58	WG1183540
Chlorodibromomethane	U		0.000545	0.00303	1	10/19/2018 19:58	WG1183540
Chloroethane	U		0.00131	0.00605	1	10/19/2018 19:58	WG1183540
Chloroform	U		0.000502	0.00303	1	10/19/2018 19:58	WG1183540
Chloromethane	U		0.00168	0.0151	1	10/19/2018 19:58	WG1183540
2-Chlorotoluene	U		0.00111	0.00303	1	10/19/2018 19:58	WG1183540
4-Chlorotoluene	U		0.00137	0.00605	1	10/19/2018 19:58	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00617	0.0303	1	10/19/2018 19:58	WG1183540
1,2-Dibromoethane	U		0.000636	0.00303	1	10/19/2018 19:58	WG1183540
Dibromomethane	U		0.00121	0.00605	1	10/19/2018 19:58	WG1183540
1,2-Dichlorobenzene	U		0.00176	0.00605	1	10/19/2018 19:58	WG1183540
1,3-Dichlorobenzene	U		0.00206	0.00605	1	10/19/2018 19:58	WG1183540
1,4-Dichlorobenzene	U		0.00239	0.00605	1	10/19/2018 19:58	WG1183540
Dichlorodifluoromethane	U U	J4	0.000990	0.00303	1	10/23/2018 04:17	WG1184696
1,1-Dichloroethane	U		0.000696	0.00303	1	10/19/2018 19:58	WG1183540
1,2-Dichloroethane	U		0.000575	0.00303	1	10/19/2018 19:58	WG1183540
1,1-Dichloroethene	U		0.000605	0.00303	1	10/19/2018 19:58	WG1183540
cis-1,2-Dichloroethene	0.0699		0.000835	0.00303	1	10/19/2018 19:58	WG1183540
trans-1,2-Dichloroethene	U		0.00173	0.00605	1	10/19/2018 19:58	WG1183540
1,2-Dichloropropane	U		0.00154	0.00605	1	10/19/2018 19:58	WG1183540
1,1-Dichloropropene	U		0.000848	0.00303	1	10/19/2018 19:58	WG1183540
1,3-Dichloropropane	U		0.00212	0.00605	1	10/19/2018 19:58	WG1183540
cis-1,3-Dichloropropene	U		0.000821	0.00303	1	10/19/2018 19:58	WG1183540
trans-1,3-Dichloropropene	U U	J4	0.00185	0.00605	1	10/19/2018 19:58	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00170	0.00605	1	10/19/2018 19:58	WG1183540
2,2-Dichloropropane	U		0.000960	0.00303	1	10/19/2018 19:58	WG1183540
Di-isopropyl ether	U		0.000424	0.00121	1	10/19/2018 19:58	WG1183540
Ethylbenzene	U UJ	J0	0.000642	0.00303	1	10/19/2018 19:58	WG1183540
Hexachloro-1,3-butadiene	U		0.0154	0.0303	1	10/19/2018 19:58	WG1183540
2-Hexanone	U		0.0121	0.0303	1	10/19/2018 19:58	WG1183540
n-Hexane	0.00420 J	J J0 J4	0.00128	0.00605	1	10/19/2018 19:58	WG1183540
Iodomethane	U		0.00732	0.0151	1	10/19/2018 19:58	WG1183540
Isopropylbenzene	U		0.00104	0.00303	1	10/19/2018 19:58	WG1183540
p-Isopropyltoluene	U		0.00282	0.00605	1	10/19/2018 19:58	WG1183540
2-Butanone (MEK)	0.0553 J	B J4	0.0151	0.0303	1	10/19/2018 19:58	WG1183540
Methylene Chloride	U		0.00804	0.0303	1	10/19/2018 19:58	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0303	1	10/19/2018 19:58	WG1183540

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000357	0.00121	1	10/19/2018 19:58	WG1183540
Naphthalene	U		0.00378	0.0151	1	10/19/2018 19:58	WG1183540
n-Propylbenzene	U		0.00143	0.00605	1	10/19/2018 19:58	WG1183540
Styrene	U		0.00331	0.0151	1	10/19/2018 19:58	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000605	0.00303	1	10/19/2018 19:58	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000472	0.00303	1	10/23/2018 04:17	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000817	0.00303	1	10/23/2018 04:17	WG1184696
Tetrachloroethene	0.0333		0.000848	0.00303	1	10/19/2018 19:58	WG1183540
Toluene	U		0.00151	0.00605	1	10/19/2018 19:58	WG1183540
1,2,3-Trichlorobenzene	U		0.000757	0.00303	1	10/23/2018 04:17	WG1184696
1,2,4-Trichlorobenzene	U		0.00584	0.0151	1	10/19/2018 19:58	WG1183540
1,1,1-Trichloroethane	U		0.000333	0.00303	1	10/19/2018 19:58	WG1183540
1,1,2-Trichloroethane	U		0.00107	0.00303	1	10/19/2018 19:58	WG1183540
Trichloroethene	0.0356		0.000484	0.00121	1	10/19/2018 19:58	WG1183540
Trichlorofluoromethane	U		0.000605	0.00303	1	10/19/2018 19:58	WG1183540
1,2,3-Trichloropropane	U		0.00617	0.0151	1	10/19/2018 19:58	WG1183540
1,2,4-Trimethylbenzene	U		0.00140	0.00605	1	10/19/2018 19:58	WG1183540
1,2,3-Trimethylbenzene	U		0.00139	0.00605	1	10/19/2018 19:58	WG1183540
1,3,5-Trimethylbenzene	U		0.00131	0.00605	1	10/19/2018 19:58	WG1183540
Vinyl acetate	U		0.00426	0.0151	1	10/19/2018 19:58	WG1183540
Vinyl chloride	0.00478		0.000827	0.00303	1	10/23/2018 04:17	WG1184696
Xylenes, Total	U		0.00579	0.00787	1	10/19/2018 19:58	WG1183540
(S) Toluene-d8	*101*			*75.0-131*		*10/19/2018 19:58*	WG1183540
(S) Toluene-d8	*100*			*75.0-131*		*10/23/2018 04:17*	WG1184696
(S) Dibromofluoromethane	*94.1*			*65.0-129*		*10/19/2018 19:58*	WG1183540
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/23/2018 04:17*	WG1184696
(S) 4-Bromofluorobenzene	*90.0*			*67.0-138*		*10/19/2018 19:58*	WG1183540
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/23/2018 04:17*	WG1184696

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	89.6		1	10/24/2018 10:10	WG1184859

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Acetone	U			0.0153	0.0279	1	10/23/2018 04:37	WG1184696
Acrylonitrile	U			0.00212	0.0140	1	10/19/2018 20:16	WG1183540
Benzene	U			0.000447	0.00112	1	10/19/2018 20:16	WG1183540
Bromobenzene	U			0.00117	0.0140	1	10/19/2018 20:16	WG1183540
Bromodichloromethane	U			0.000880	0.00279	1	10/19/2018 20:16	WG1183540
Bromochloromethane	U			0.00126	0.00558	1	10/19/2018 20:16	WG1183540
Bromoform	U			0.00668	0.0279	1	10/19/2018 20:16	WG1183540
Bromomethane	U			0.00413	0.0140	1	10/19/2018 20:16	WG1183540
n-Butylbenzene	U			0.00429	0.0140	1	10/19/2018 20:16	WG1183540
sec-Butylbenzene	U			0.00283	0.0140	1	10/19/2018 20:16	WG1183540
tert-Butylbenzene	U			0.00173	0.00558	1	10/19/2018 20:16	WG1183540
Carbon disulfide	U	UJ	J0	0.00453	0.0140	1	10/19/2018 20:16	WG1183540
Carbon tetrachloride	U			0.00121	0.00558	1	10/19/2018 20:16	WG1183540
Chlorobenzene	U			0.000640	0.00279	1	10/19/2018 20:16	WG1183540
Chlorodibromomethane	U			0.000502	0.00279	1	10/19/2018 20:16	WG1183540
Chloroethane	U			0.00121	0.00558	1	10/19/2018 20:16	WG1183540
Chloroform	U			0.000463	0.00279	1	10/19/2018 20:16	WG1183540
Chloromethane	U			0.00155	0.0140	1	10/19/2018 20:16	WG1183540
2-Chlorotoluene	U			0.00103	0.00279	1	10/19/2018 20:16	WG1183540
4-Chlorotoluene	U			0.00126	0.00558	1	10/19/2018 20:16	WG1183540
1,2-Dibromo-3-Chloropropane	U			0.00569	0.0279	1	10/19/2018 20:16	WG1183540
1,2-Dibromoethane	U			0.000586	0.00279	1	10/19/2018 20:16	WG1183540
Dibromomethane	U			0.00112	0.00558	1	10/19/2018 20:16	WG1183540
1,2-Dichlorobenzene	U			0.00162	0.00558	1	10/19/2018 20:16	WG1183540
1,3-Dichlorobenzene	U			0.00190	0.00558	1	10/19/2018 20:16	WG1183540
1,4-Dichlorobenzene	U			0.00220	0.00558	1	10/19/2018 20:16	WG1183540
Dichlorodifluoromethane	U	U	J4	0.000913	0.00279	1	10/23/2018 04:37	WG1184696
1,1-Dichloroethane	U			0.000642	0.00279	1	10/19/2018 20:16	WG1183540
1,2-Dichloroethane	U			0.000530	0.00279	1	10/19/2018 20:16	WG1183540
1,1-Dichloroethene	U			0.000558	0.00279	1	10/19/2018 20:16	WG1183540
cis-1,2-Dichloroethene	0.481			0.000770	0.00279	1	10/19/2018 20:16	WG1183540
trans-1,2-Dichloroethene	0.00474	J	J	0.00160	0.00558	1	10/19/2018 20:16	WG1183540
1,2-Dichloropropane	U			0.00142	0.00558	1	10/19/2018 20:16	WG1183540
1,1-Dichloropropene	U			0.000782	0.00279	1	10/19/2018 20:16	WG1183540
1,3-Dichloropropane	U			0.00195	0.00558	1	10/19/2018 20:16	WG1183540
cis-1,3-Dichloropropene	U			0.000757	0.00279	1	10/19/2018 20:16	WG1183540
trans-1,3-Dichloropropene	U	U	J4	0.00171	0.00558	1	10/19/2018 20:16	WG1183540
trans-1,4-Dichloro-2-butene	U			0.00156	0.00558	1	10/19/2018 20:16	WG1183540
2,2-Dichloropropane	U			0.000885	0.00279	1	10/19/2018 20:16	WG1183540
Di-isopropyl ether	U			0.000391	0.00112	1	10/19/2018 20:16	WG1183540
Ethylbenzene	U	UJ	J0	0.000592	0.00279	1	10/19/2018 20:16	WG1183540
Hexachloro-1,3-butadiene	U			0.0142	0.0279	1	10/19/2018 20:16	WG1183540
2-Hexanone	U			0.0112	0.0279	1	10/19/2018 20:16	WG1183540
n-Hexane	0.00506	J	J J0 J4	0.00118	0.00558	1	10/19/2018 20:16	WG1183540
Iodomethane	U			0.00676	0.0140	1	10/19/2018 20:16	WG1183540
Isopropylbenzene	U			0.000964	0.00279	1	10/19/2018 20:16	WG1183540
p-Isopropyltoluene	U			0.00260	0.00558	1	10/19/2018 20:16	WG1183540
2-Butanone (MEK)	0.0232	U	B J J4	0.0140	0.0279	1	10/19/2018 20:16	WG1183540
Methylene Chloride	U			0.00741	0.0279	1	10/19/2018 20:16	WG1183540
4-Methyl-2-pentanone (MIBK)	U			0.0112	0.0279	1	10/19/2018 20:16	WG1183540

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00112	1	10/19/2018 20:16	WG1183540
Naphthalene	U		0.00348	0.0140	1	10/19/2018 20:16	WG1183540
n-Propylbenzene	U		0.00132	0.00558	1	10/19/2018 20:16	WG1183540
Styrene	U		0.00305	0.0140	1	10/19/2018 20:16	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000558	0.00279	1	10/19/2018 20:16	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	10/23/2018 04:37	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00279	1	10/23/2018 04:37	WG1184696
Tetrachloroethene	1.75		0.000782	0.00279	1	10/19/2018 20:16	WG1183540
Toluene	U		0.00140	0.00558	1	10/19/2018 20:16	WG1183540
1,2,3-Trichlorobenzene	U		0.000698	0.00279	1	10/23/2018 04:37	WG1184696
1,2,4-Trichlorobenzene	U		0.00538	0.0140	1	10/19/2018 20:16	WG1183540
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/19/2018 20:16	WG1183540
1,1,2-Trichloroethane	U		0.000986	0.00279	1	10/19/2018 20:16	WG1183540
Trichloroethene	0.183		0.000447	0.00112	1	10/19/2018 20:16	WG1183540
Trichlorofluoromethane	U		0.000558	0.00279	1	10/19/2018 20:16	WG1183540
1,2,3-Trichloropropane	U		0.00569	0.0140	1	10/19/2018 20:16	WG1183540
1,2,4-Trimethylbenzene	U		0.00130	0.00558	1	10/19/2018 20:16	WG1183540
1,2,3-Trimethylbenzene	U		0.00128	0.00558	1	10/19/2018 20:16	WG1183540
1,3,5-Trimethylbenzene	U		0.00121	0.00558	1	10/19/2018 20:16	WG1183540
Vinyl acetate	U		0.00393	0.0140	1	10/19/2018 20:16	WG1183540
Vinyl chloride	0.0252		0.000763	0.00279	1	10/23/2018 04:37	WG1184696
Xylenes, Total	U		0.00534	0.00726	1	10/19/2018 20:16	WG1183540
(S) Toluene-d8	*102*			*75.0-131*		*10/19/2018 20:16*	WG1183540
(S) Toluene-d8	*99.5*			*75.0-131*		*10/23/2018 04:37*	WG1184696
(S) Dibromofluoromethane	*93.8*			*65.0-129*		*10/19/2018 20:16*	WG1183540
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/23/2018 04:37*	WG1184696
(S) 4-Bromofluorobenzene	*88.8*			*67.0-138*		*10/19/2018 20:16*	WG1183540
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/23/2018 04:37*	WG1184696

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.1		1	10/24/2018 10:10	WG1184859

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0159	0.0290	1	10/23/2018 04:57	WG1184696
Acrylonitrile	U		0.00221	0.0145	1	10/19/2018 20:34	WG1183540
Benzene	U		0.000465	0.00116	1	10/19/2018 20:34	WG1183540
Bromobenzene	U		0.00122	0.0145	1	10/19/2018 20:34	WG1183540
Bromodichloromethane	U		0.000915	0.00290	1	10/19/2018 20:34	WG1183540
Bromochloromethane	U		0.00131	0.00581	1	10/19/2018 20:34	WG1183540
Bromoform	U		0.00695	0.0290	1	10/19/2018 20:34	WG1183540
Bromomethane	U		0.00430	0.0145	1	10/19/2018 20:34	WG1183540
n-Butylbenzene	U		0.00446	0.0145	1	10/19/2018 20:34	WG1183540
sec-Butylbenzene	U		0.00294	0.0145	1	10/19/2018 20:34	WG1183540
tert-Butylbenzene	U		0.00180	0.00581	1	10/19/2018 20:34	WG1183540
Carbon disulfide	U	UJ J0	0.00472	0.0145	1	10/19/2018 20:34	WG1183540
Carbon tetrachloride	U		0.00125	0.00581	1	10/19/2018 20:34	WG1183540
Chlorobenzene	U		0.000666	0.00290	1	10/19/2018 20:34	WG1183540
Chlorodibromomethane	U		0.000523	0.00290	1	10/19/2018 20:34	WG1183540
Chloroethane	U		0.00125	0.00581	1	10/19/2018 20:34	WG1183540
Chloroform	U		0.000482	0.00290	1	10/19/2018 20:34	WG1183540
Chloromethane	U		0.00161	0.0145	1	10/19/2018 20:34	WG1183540
2-Chlorotoluene	U		0.00107	0.00290	1	10/19/2018 20:34	WG1183540
4-Chlorotoluene	U		0.00131	0.00581	1	10/19/2018 20:34	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00592	0.0290	1	10/19/2018 20:34	WG1183540
1,2-Dibromoethane	U		0.000610	0.00290	1	10/19/2018 20:34	WG1183540
Dibromomethane	U		0.00116	0.00581	1	10/19/2018 20:34	WG1183540
1,2-Dichlorobenzene	U		0.00168	0.00581	1	10/19/2018 20:34	WG1183540
1,3-Dichlorobenzene	U		0.00197	0.00581	1	10/19/2018 20:34	WG1183540
1,4-Dichlorobenzene	U		0.00229	0.00581	1	10/19/2018 20:34	WG1183540
Dichlorodifluoromethane	U	U J4	0.000950	0.00290	1	10/23/2018 04:57	WG1184696
1,1-Dichloroethane	U		0.000668	0.00290	1	10/19/2018 20:34	WG1183540
1,2-Dichloroethane	U		0.000552	0.00290	1	10/19/2018 20:34	WG1183540
1,1-Dichloroethene	0.000652	J J	0.000581	0.00290	1	10/19/2018 20:34	WG1183540
cis-1,2-Dichloroethene	0.364		0.000802	0.00290	1	10/19/2018 20:34	WG1183540
trans-1,2-Dichloroethene	0.00411	J J	0.00166	0.00581	1	10/19/2018 20:34	WG1183540
1,2-Dichloropropane	U		0.00148	0.00581	1	10/19/2018 20:34	WG1183540
1,1-Dichloropropene	U		0.000813	0.00290	1	10/19/2018 20:34	WG1183540
1,3-Dichloropropane	U		0.00203	0.00581	1	10/19/2018 20:34	WG1183540
cis-1,3-Dichloropropene	U		0.000788	0.00290	1	10/19/2018 20:34	WG1183540
trans-1,3-Dichloropropene	U	U J4	0.00178	0.00581	1	10/19/2018 20:34	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00163	0.00581	1	10/19/2018 20:34	WG1183540
2,2-Dichloropropane	U		0.000921	0.00290	1	10/19/2018 20:34	WG1183540
Di-isopropyl ether	U		0.000407	0.00116	1	10/19/2018 20:34	WG1183540
Ethylbenzene	U	UJ J0	0.000616	0.00290	1	10/19/2018 20:34	WG1183540
Hexachloro-1,3-butadiene	U		0.0148	0.0290	1	10/19/2018 20:34	WG1183540
2-Hexanone	U		0.0116	0.0290	1	10/19/2018 20:34	WG1183540
n-Hexane	0.00558	J J J0 J4	0.00123	0.00581	1	10/19/2018 20:34	WG1183540
Iodomethane	U		0.00703	0.0145	1	10/19/2018 20:34	WG1183540
Isopropylbenzene	U		0.00100	0.00290	1	10/19/2018 20:34	WG1183540
p-Isopropyltoluene	U		0.00271	0.00581	1	10/19/2018 20:34	WG1183540
2-Butanone (MEK)	0.0225	U B J J4	0.0145	0.0290	1	10/19/2018 20:34	WG1183540
Methylene Chloride	U		0.00771	0.0290	1	10/19/2018 20:34	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/19/2018 20:34	WG1183540

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000343	0.00116	1	10/19/2018 20:34	WG1183540
Naphthalene	U		0.00362	0.0145	1	10/19/2018 20:34	WG1183540
n-Propylbenzene	U		0.00137	0.00581	1	10/19/2018 20:34	WG1183540
Styrene	U		0.00317	0.0145	1	10/19/2018 20:34	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000581	0.00290	1	10/19/2018 20:34	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000453	0.00290	1	10/23/2018 04:57	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000784	0.00290	1	10/23/2018 04:57	WG1184696
Tetrachloroethene	1.26		0.000813	0.00290	1	10/19/2018 20:34	WG1183540
Toluene	U		0.00145	0.00581	1	10/19/2018 20:34	WG1183540
1,2,3-Trichlorobenzene	U		0.000726	0.00290	1	10/23/2018 04:57	WG1184696
1,2,4-Trichlorobenzene	U		0.00560	0.0145	1	10/19/2018 20:34	WG1183540
1,1,1-Trichloroethane	U		0.000319	0.00290	1	10/19/2018 20:34	WG1183540
1,1,2-Trichloroethane	U		0.00103	0.00290	1	10/19/2018 20:34	WG1183540
Trichloroethene	0.134		0.000465	0.00116	1	10/19/2018 20:34	WG1183540
Trichlorofluoromethane	U		0.000581	0.00290	1	10/19/2018 20:34	WG1183540
1,2,3-Trichloropropane	U		0.00592	0.0145	1	10/19/2018 20:34	WG1183540
1,2,4-Trimethylbenzene	U		0.00135	0.00581	1	10/19/2018 20:34	WG1183540
1,2,3-Trimethylbenzene	U		0.00134	0.00581	1	10/19/2018 20:34	WG1183540
1,3,5-Trimethylbenzene	U		0.00125	0.00581	1	10/19/2018 20:34	WG1183540
Vinyl acetate	U		0.00409	0.0145	1	10/19/2018 20:34	WG1183540
Vinyl chloride	U		0.000793	0.00290	1	10/23/2018 04:57	WG1184696
Xylenes, Total	U		0.00555	0.00755	1	10/19/2018 20:34	WG1183540
(S) Toluene-d8	*104*			*75.0-131*		*10/19/2018 20:34*	WG1183540
(S) Toluene-d8	*99.5*			*75.0-131*		*10/23/2018 04:57*	WG1184696
(S) Dibromofluoromethane	*93.9*			*65.0-129*		*10/19/2018 20:34*	WG1183540
(S) Dibromofluoromethane	*115*			*65.0-129*		*10/23/2018 04:57*	WG1184696
(S) 4-Bromofluorobenzene	*90.1*			*67.0-138*		*10/19/2018 20:34*	WG1183540
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/23/2018 04:57*	WG1184696

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SAMPLE RESULTS - 04

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.0		1	10/24/2018 10:10	WG1184859

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.124	0.225	8	10/23/2018 07:38	WG1184696
Acrylonitrile	U		0.00214	0.0140	1	10/19/2018 20:53	WG1183540
Benzene	U		0.000450	0.00112	1	10/19/2018 20:53	WG1183540
Bromobenzene	U		0.00118	0.0140	1	10/19/2018 20:53	WG1183540
Bromodichloromethane	U		0.000886	0.00281	1	10/19/2018 20:53	WG1183540
Bromochloromethane	U		0.00127	0.00562	1	10/19/2018 20:53	WG1183540
Bromoform	U		0.00672	0.0281	1	10/19/2018 20:53	WG1183540
Bromomethane	U		0.00416	0.0140	1	10/19/2018 20:53	WG1183540
n-Butylbenzene	U		0.00432	0.0140	1	10/19/2018 20:53	WG1183540
sec-Butylbenzene	U		0.00284	0.0140	1	10/19/2018 20:53	WG1183540
tert-Butylbenzene	U		0.00174	0.00562	1	10/19/2018 20:53	WG1183540
Carbon disulfide	U UJ	J0	0.00456	0.0140	1	10/19/2018 20:53	WG1183540
Carbon tetrachloride	U		0.00121	0.00562	1	10/19/2018 20:53	WG1183540
Chlorobenzene	U		0.000644	0.00281	1	10/19/2018 20:53	WG1183540
Chlorodibromomethane	U		0.000506	0.00281	1	10/19/2018 20:53	WG1183540
Chloroethane	U		0.00121	0.00562	1	10/19/2018 20:53	WG1183540
Chloroform	U		0.000466	0.00281	1	10/19/2018 20:53	WG1183540
Chloromethane	U		0.00156	0.0140	1	10/19/2018 20:53	WG1183540
2-Chlorotoluene	U		0.00103	0.00281	1	10/19/2018 20:53	WG1183540
4-Chlorotoluene	U		0.00127	0.00562	1	10/19/2018 20:53	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	10/19/2018 20:53	WG1183540
1,2-Dibromoethane	U		0.000590	0.00281	1	10/19/2018 20:53	WG1183540
Dibromomethane	U		0.00112	0.00562	1	10/19/2018 20:53	WG1183540
1,2-Dichlorobenzene	U		0.00163	0.00562	1	10/19/2018 20:53	WG1183540
1,3-Dichlorobenzene	U		0.00191	0.00562	1	10/19/2018 20:53	WG1183540
1,4-Dichlorobenzene	U		0.00221	0.00562	1	10/19/2018 20:53	WG1183540
Dichlorodifluoromethane	U U	J4	0.00735	0.0225	8	10/23/2018 07:38	WG1184696
1,1-Dichloroethane	U		0.000646	0.00281	1	10/19/2018 20:53	WG1183540
1,2-Dichloroethane	U		0.000534	0.00281	1	10/19/2018 20:53	WG1183540
1,1-Dichloroethene	0.00801		0.000562	0.00281	1	10/19/2018 20:53	WG1183540
cis-1,2-Dichloroethene	1.67		0.000776	0.00281	1	10/19/2018 20:53	WG1183540
trans-1,2-Dichloroethene	0.00652		0.00161	0.00562	1	10/19/2018 20:53	WG1183540
1,2-Dichloropropane	U		0.00143	0.00562	1	10/19/2018 20:53	WG1183540
1,1-Dichloropropene	U		0.000787	0.00281	1	10/19/2018 20:53	WG1183540
1,3-Dichloropropane	U		0.00197	0.00562	1	10/19/2018 20:53	WG1183540
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	10/19/2018 20:53	WG1183540
trans-1,3-Dichloropropene	U U	J4	0.00172	0.00562	1	10/19/2018 20:53	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	10/19/2018 20:53	WG1183540
2,2-Dichloropropane	U		0.000891	0.00281	1	10/19/2018 20:53	WG1183540
Di-isopropyl ether	U		0.000393	0.00112	1	10/19/2018 20:53	WG1183540
Ethylbenzene	U UJ	J0	0.000596	0.00281	1	10/19/2018 20:53	WG1183540
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/19/2018 20:53	WG1183540
2-Hexanone	U		0.0112	0.0281	1	10/19/2018 20:53	WG1183540
n-Hexane	0.00569 J	J0 J4	0.00119	0.00562	1	10/19/2018 20:53	WG1183540
Iodomethane	U		0.00680	0.0140	1	10/19/2018 20:53	WG1183540
Isopropylbenzene	U		0.000970	0.00281	1	10/19/2018 20:53	WG1183540
p-Isopropyltoluene	U		0.00262	0.00562	1	10/19/2018 20:53	WG1183540
2-Butanone (MEK)	0.0273 U	B J J4	0.0140	0.0281	1	10/19/2018 20:53	WG1183540
Methylene Chloride	U		0.00746	0.0281	1	10/19/2018 20:53	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	10/19/2018 20:53	WG1183540

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SAMPLE RESULTS - 04

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00112	1	10/19/2018 20:53	WG1183540
Naphthalene	U		0.00351	0.0140	1	10/19/2018 20:53	WG1183540
n-Propylbenzene	U		0.00133	0.00562	1	10/19/2018 20:53	WG1183540
Styrene	U		0.00307	0.0140	1	10/19/2018 20:53	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	10/19/2018 20:53	WG1183540
1,1,2,2-Tetrachloroethane	U		0.00351	0.0225	8	10/23/2018 07:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.00607	0.0225	8	10/23/2018 07:38	WG1184696
Tetrachloroethene	2.06		0.00629	0.0225	8	10/23/2018 07:38	WG1184696
Toluene	U		0.00140	0.00562	1	10/19/2018 20:53	WG1183540
1,2,3-Trichlorobenzene	U		0.00562	0.0225	8	10/23/2018 07:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00542	0.0140	1	10/19/2018 20:53	WG1183540
1,1,1-Trichloroethane	U		0.000309	0.00281	1	10/19/2018 20:53	WG1183540
1,1,2-Trichloroethane	U		0.000992	0.00281	1	10/19/2018 20:53	WG1183540
Trichloroethene	0.455		0.000450	0.00112	1	10/19/2018 20:53	WG1183540
Trichlorofluoromethane	U		0.000562	0.00281	1	10/19/2018 20:53	WG1183540
1,2,3-Trichloropropane	U		0.00573	0.0140	1	10/19/2018 20:53	WG1183540
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	10/19/2018 20:53	WG1183540
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	10/19/2018 20:53	WG1183540
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	10/19/2018 20:53	WG1183540
Vinyl acetate	U		0.00396	0.0140	1	10/19/2018 20:53	WG1183540
Vinyl chloride	0.226		0.00614	0.0225	8	10/23/2018 07:38	WG1184696
Xylenes, Total	U		0.00537	0.00731	1	10/19/2018 20:53	WG1183540
(S) Toluene-d8	*103*			*75.0-131*		*10/19/2018 20:53*	WG1183540
(S) Toluene-d8	*97.8*			*75.0-131*		*10/23/2018 07:38*	WG1184696
(S) Dibromofluoromethane	*95.2*			*65.0-129*		*10/19/2018 20:53*	WG1183540
(S) Dibromofluoromethane	*118*			*65.0-129*		*10/23/2018 07:38*	WG1184696
(S) 4-Bromofluorobenzene	*90.3*			*67.0-138*		*10/19/2018 20:53*	WG1183540
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/23/2018 07:38*	WG1184696

Sample Narrative:

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L1036155-04 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036155-04 WG1184696, WG1183540: Not all compounds reportable at lower dilution.

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.3		1	10/24/2018 10:10	WG1184859

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0150	0.0274	1	10/23/2018 05:17	WG1184696
Acrylonitrile	U			0.00208	0.0137	1	10/19/2018 21:11	WG1183540
Benzene	U			0.000438	0.00110	1	10/19/2018 21:11	WG1183540
Bromobenzene	U			0.00115	0.0137	1	10/19/2018 21:11	WG1183540
Bromodichloromethane	U			0.000863	0.00274	1	10/19/2018 21:11	WG1183540
Bromochloromethane	U			0.00124	0.00548	1	10/19/2018 21:11	WG1183540
Bromoform	U			0.00655	0.0274	1	10/19/2018 21:11	WG1183540
Bromomethane	U			0.00405	0.0137	1	10/19/2018 21:11	WG1183540
n-Butylbenzene	U			0.00421	0.0137	1	10/19/2018 21:11	WG1183540
sec-Butylbenzene	U			0.00277	0.0137	1	10/19/2018 21:11	WG1183540
tert-Butylbenzene	U			0.00170	0.00548	1	10/19/2018 21:11	WG1183540
Carbon disulfide	U	UJ	J0	0.00445	0.0137	1	10/19/2018 21:11	WG1183540
Carbon tetrachloride	U			0.00118	0.00548	1	10/19/2018 21:11	WG1183540
Chlorobenzene	U			0.000628	0.00274	1	10/19/2018 21:11	WG1183540
Chlorodibromomethane	U			0.000493	0.00274	1	10/19/2018 21:11	WG1183540
Chloroethane	U			0.00118	0.00548	1	10/19/2018 21:11	WG1183540
Chloroform	0.00130	J	J	0.000455	0.00274	1	10/19/2018 21:11	WG1183540
Chloromethane	U			0.00152	0.0137	1	10/19/2018 21:11	WG1183540
2-Chlorotoluene	U			0.00101	0.00274	1	10/19/2018 21:11	WG1183540
4-Chlorotoluene	U			0.00124	0.00548	1	10/19/2018 21:11	WG1183540
1,2-Dibromo-3-Chloropropane	U			0.00559	0.0274	1	10/19/2018 21:11	WG1183540
1,2-Dibromoethane	U			0.000575	0.00274	1	10/19/2018 21:11	WG1183540
Dibromomethane	U			0.00110	0.00548	1	10/19/2018 21:11	WG1183540
1,2-Dichlorobenzene	U			0.00159	0.00548	1	10/19/2018 21:11	WG1183540
1,3-Dichlorobenzene	U			0.00186	0.00548	1	10/19/2018 21:11	WG1183540
1,4-Dichlorobenzene	U			0.00216	0.00548	1	10/19/2018 21:11	WG1183540
Dichlorodifluoromethane	U	U	J4	0.000896	0.00274	1	10/23/2018 05:17	WG1184696
1,1-Dichloroethane	U			0.000630	0.00274	1	10/19/2018 21:11	WG1183540
1,2-Dichloroethane	U			0.000520	0.00274	1	10/19/2018 21:11	WG1183540
1,1-Dichloroethene	U			0.000548	0.00274	1	10/19/2018 21:11	WG1183540
cis-1,2-Dichloroethene	0.0116			0.000756	0.00274	1	10/19/2018 21:11	WG1183540
trans-1,2-Dichloroethene	U			0.00157	0.00548	1	10/19/2018 21:11	WG1183540
1,2-Dichloropropane	U			0.00139	0.00548	1	10/19/2018 21:11	WG1183540
1,1-Dichloropropene	U			0.000767	0.00274	1	10/19/2018 21:11	WG1183540
1,3-Dichloropropane	U			0.00192	0.00548	1	10/19/2018 21:11	WG1183540
cis-1,3-Dichloropropene	U			0.000743	0.00274	1	10/19/2018 21:11	WG1183540
trans-1,3-Dichloropropene	U	U	J4	0.00168	0.00548	1	10/19/2018 21:11	WG1183540
trans-1,4-Dichloro-2-butene	U			0.00153	0.00548	1	10/19/2018 21:11	WG1183540
2,2-Dichloropropane	U			0.000869	0.00274	1	10/19/2018 21:11	WG1183540
Di-isopropyl ether	U			0.000384	0.00110	1	10/19/2018 21:11	WG1183540
Ethylbenzene	U	UJ	J0	0.000581	0.00274	1	10/19/2018 21:11	WG1183540
Hexachloro-1,3-butadiene	U			0.0139	0.0274	1	10/19/2018 21:11	WG1183540
2-Hexanone	U			0.0110	0.0274	1	10/19/2018 21:11	WG1183540
n-Hexane	0.00671	J	J0 J4	0.00116	0.00548	1	10/19/2018 21:11	WG1183540
Iodomethane	U			0.00663	0.0137	1	10/19/2018 21:11	WG1183540
Isopropylbenzene	U			0.000946	0.00274	1	10/19/2018 21:11	WG1183540
p-Isopropyltoluene	U			0.00255	0.00548	1	10/19/2018 21:11	WG1183540
2-Butanone (MEK)	0.0293	J	B J4	0.0137	0.0274	1	10/19/2018 21:11	WG1183540
Methylene Chloride	U			0.00728	0.0274	1	10/19/2018 21:11	WG1183540
4-Methyl-2-pentanone (MIBK)	U			0.0110	0.0274	1	10/19/2018 21:11	WG1183540

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00110	1	10/19/2018 21:11	WG1183540
Naphthalene	U		0.00342	0.0137	1	10/19/2018 21:11	WG1183540
n-Propylbenzene	U		0.00129	0.00548	1	10/19/2018 21:11	WG1183540
Styrene	U		0.00299	0.0137	1	10/19/2018 21:11	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000548	0.00274	1	10/19/2018 21:11	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000427	0.00274	1	10/23/2018 05:17	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000740	0.00274	1	10/23/2018 05:17	WG1184696
Tetrachloroethene	0.0198		0.000767	0.00274	1	10/23/2018 05:17	WG1184696
Toluene	U		0.00137	0.00548	1	10/19/2018 21:11	WG1183540
1,2,3-Trichlorobenzene	U		0.000685	0.00274	1	10/23/2018 05:17	WG1184696
1,2,4-Trichlorobenzene	U		0.00528	0.0137	1	10/19/2018 21:11	WG1183540
1,1,1-Trichloroethane	U		0.000301	0.00274	1	10/19/2018 21:11	WG1183540
1,1,2-Trichloroethane	U		0.000968	0.00274	1	10/19/2018 21:11	WG1183540
Trichloroethene	0.00793		0.000438	0.00110	1	10/19/2018 21:11	WG1183540
Trichlorofluoromethane	U		0.000548	0.00274	1	10/19/2018 21:11	WG1183540
1,2,3-Trichloropropane	U		0.00559	0.0137	1	10/19/2018 21:11	WG1183540
1,2,4-Trimethylbenzene	U		0.00127	0.00548	1	10/19/2018 21:11	WG1183540
1,2,3-Trimethylbenzene	U		0.00126	0.00548	1	10/19/2018 21:11	WG1183540
1,3,5-Trimethylbenzene	U		0.00118	0.00548	1	10/19/2018 21:11	WG1183540
Vinyl acetate	U		0.00386	0.0137	1	10/19/2018 21:11	WG1183540
Vinyl chloride	U		0.000748	0.00274	1	10/23/2018 05:17	WG1184696
Xylenes, Total	U		0.00524	0.00712	1	10/19/2018 21:11	WG1183540
(S) Toluene-d8	*100*			*75.0-131*		*10/19/2018 21:11*	WG1183540
(S) Toluene-d8	*99.6*			*75.0-131*		*10/23/2018 05:17*	WG1184696
(S) Dibromofluoromethane	*93.8*			*65.0-129*		*10/19/2018 21:11*	WG1183540
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/23/2018 05:17*	WG1184696
(S) 4-Bromofluorobenzene	*90.5*			*67.0-138*		*10/19/2018 21:11*	WG1183540
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/23/2018 05:17*	WG1184696

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.9		1	10/24/2018 10:10	WG1184859

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0156	0.0284	1	10/21/2018 22:57	WG1184313
Acrylonitrile	U			0.00216	0.0142	1	10/21/2018 22:57	WG1184313
Benzene	U			0.000455	0.00114	1	10/23/2018 16:51	WG1185140
Bromobenzene	U			0.00119	0.0142	1	10/21/2018 22:57	WG1184313
Bromodichloromethane	U			0.000896	0.00284	1	10/21/2018 22:57	WG1184313
Bromochloromethane	U			0.00129	0.00569	1	10/21/2018 22:57	WG1184313
Bromoform	U			0.00680	0.0284	1	10/21/2018 22:57	WG1184313
Bromomethane	U			0.00421	0.0142	1	10/21/2018 22:57	WG1184313
n-Butylbenzene	U			0.00437	0.0142	1	10/21/2018 22:57	WG1184313
sec-Butylbenzene	U			0.00288	0.0142	1	10/21/2018 22:57	WG1184313
tert-Butylbenzene	U			0.00176	0.00569	1	10/21/2018 22:57	WG1184313
Carbon disulfide	U			0.00462	0.0142	1	10/21/2018 22:57	WG1184313
Carbon tetrachloride	U			0.00123	0.00569	1	10/21/2018 22:57	WG1184313
Chlorobenzene	U			0.000652	0.00284	1	10/21/2018 22:57	WG1184313
Chlorodibromomethane	U			0.000512	0.00284	1	10/21/2018 22:57	WG1184313
Chloroethane	U			0.00123	0.00569	1	10/21/2018 22:57	WG1184313
Chloroform	0.00166	U	B J	0.000472	0.00284	1	10/21/2018 22:57	WG1184313
Chloromethane	U			0.00158	0.0142	1	10/21/2018 22:57	WG1184313
2-Chlorotoluene	U			0.00105	0.00284	1	10/21/2018 22:57	WG1184313
4-Chlorotoluene	U			0.00129	0.00569	1	10/21/2018 22:57	WG1184313
1,2-Dibromo-3-Chloropropane	U			0.00580	0.0284	1	10/21/2018 22:57	WG1184313
1,2-Dibromoethane	U			0.000597	0.00284	1	10/21/2018 22:57	WG1184313
Dibromomethane	U			0.00114	0.00569	1	10/21/2018 22:57	WG1184313
1,2-Dichlorobenzene	U			0.00165	0.00569	1	10/21/2018 22:57	WG1184313
1,3-Dichlorobenzene	U			0.00193	0.00569	1	10/21/2018 22:57	WG1184313
1,4-Dichlorobenzene	U			0.00224	0.00569	1	10/21/2018 22:57	WG1184313
Dichlorodifluoromethane	U			0.000930	0.00284	1	10/21/2018 22:57	WG1184313
1,1-Dichloroethane	U			0.000654	0.00284	1	10/21/2018 22:57	WG1184313
1,2-Dichloroethane	U			0.000540	0.00284	1	10/21/2018 22:57	WG1184313
1,1-Dichloroethene	U			0.000569	0.00284	1	10/21/2018 22:57	WG1184313
cis-1,2-Dichloroethene	0.00236	J	J	0.000785	0.00284	1	10/21/2018 22:57	WG1184313
trans-1,2-Dichloroethene	U			0.00163	0.00569	1	10/21/2018 22:57	WG1184313
1,2-Dichloropropane	U			0.00144	0.00569	1	10/21/2018 22:57	WG1184313
1,1-Dichloropropene	U			0.000796	0.00284	1	10/21/2018 22:57	WG1184313
1,3-Dichloropropane	U			0.00199	0.00569	1	10/21/2018 22:57	WG1184313
cis-1,3-Dichloropropene	U			0.000771	0.00284	1	10/21/2018 22:57	WG1184313
trans-1,3-Dichloropropene	U			0.00174	0.00569	1	10/21/2018 22:57	WG1184313
trans-1,4-Dichloro-2-butene	U			0.00159	0.00569	1	10/21/2018 22:57	WG1184313
2,2-Dichloropropane	U	U	J4	0.000902	0.00284	1	10/21/2018 22:57	WG1184313
Di-isopropyl ether	U			0.000398	0.00114	1	10/23/2018 16:51	WG1185140
Ethylbenzene	U			0.000603	0.00284	1	10/21/2018 22:57	WG1184313
Hexachloro-1,3-butadiene	U			0.0144	0.0284	1	10/21/2018 22:57	WG1184313
2-Hexanone	U			0.0114	0.0284	1	10/21/2018 22:57	WG1184313
n-Hexane	U			0.00121	0.00569	1	10/21/2018 22:57	WG1184313
Iodomethane	U			0.00688	0.0142	1	10/21/2018 22:57	WG1184313
Isopropylbenzene	U			0.000981	0.00284	1	10/21/2018 22:57	WG1184313
p-Isopropyltoluene	U			0.00265	0.00569	1	10/21/2018 22:57	WG1184313
2-Butanone (MEK)	0.0301			0.0142	0.0284	1	10/21/2018 22:57	WG1184313
Methylene Chloride	U			0.00755	0.0284	1	10/21/2018 22:57	WG1184313
4-Methyl-2-pentanone (MIBK)	U			0.0114	0.0284	1	10/21/2018 22:57	WG1184313

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000335	0.00114	1	10/23/2018 16:51	WG1185140
Naphthalene	U		0.00355	0.0142	1	10/21/2018 22:57	WG1184313
n-Propylbenzene	U		0.00134	0.00569	1	10/21/2018 22:57	WG1184313
Styrene	U		0.00310	0.0142	1	10/21/2018 22:57	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000569	0.00284	1	10/21/2018 22:57	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000444	0.00284	1	10/21/2018 22:57	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000768	0.00284	1	10/21/2018 22:57	WG1184313
Tetrachloroethene	0.0619		0.000796	0.00284	1	10/23/2018 16:51	WG1185140
Toluene	U		0.00142	0.00569	1	10/21/2018 22:57	WG1184313
1,2,3-Trichlorobenzene	U		0.000711	0.00284	1	10/21/2018 22:57	WG1184313
1,2,4-Trichlorobenzene	U		0.00548	0.0142	1	10/23/2018 16:51	WG1185140
1,1,1-Trichloroethane	U		0.000313	0.00284	1	10/21/2018 22:57	WG1184313
1,1,2-Trichloroethane	U		0.00100	0.00284	1	10/21/2018 22:57	WG1184313
Trichloroethene	0.00635		0.000455	0.00114	1	10/23/2018 16:51	WG1185140
Trichlorofluoromethane	U		0.000569	0.00284	1	10/21/2018 22:57	WG1184313
1,2,3-Trichloropropane	U		0.00580	0.0142	1	10/21/2018 22:57	WG1184313
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	10/21/2018 22:57	WG1184313
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	10/21/2018 22:57	WG1184313
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	10/21/2018 22:57	WG1184313
Vinyl acetate	U		0.00400	0.0142	1	10/21/2018 22:57	WG1184313
Vinyl chloride	U		0.000777	0.00284	1	10/21/2018 22:57	WG1184313
Xylenes, Total	U		0.00544	0.00739	1	10/21/2018 22:57	WG1184313
(S) Toluene-d8	*99.7*			*75.0-131*		*10/21/2018 22:57*	WG1184313
(S) Toluene-d8	*122*			*75.0-131*		*10/23/2018 16:51*	WG1185140
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/21/2018 22:57*	WG1184313
(S) Dibromofluoromethane	*94.1*			*65.0-129*		*10/23/2018 16:51*	WG1185140
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/21/2018 22:57*	WG1184313
(S) 4-Bromofluorobenzene	*87.9*			*67.0-138*		*10/23/2018 16:51*	WG1185140

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

B-258-10
Collected date/time: 10/17/18 09:05

SAMPLE RESULTS - 07

L1036155

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.6		1	10/24/2018 10:10	WG1184859

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0164	0.0299	1	10/21/2018 23:17	WG1184313
Acrylonitrile	U		0.00227	0.0150	1	10/21/2018 23:17	WG1184313
Benzene	U		0.000479	0.00120	1	10/23/2018 17:12	WG1185140
Bromobenzene	U		0.00126	0.0150	1	10/21/2018 23:17	WG1184313
Bromodichloromethane	U		0.000943	0.00299	1	10/21/2018 23:17	WG1184313
Bromochloromethane	U		0.00135	0.00598	1	10/21/2018 23:17	WG1184313
Bromoform	U		0.00716	0.0299	1	10/21/2018 23:17	WG1184313
Bromomethane	U		0.00443	0.0150	1	10/21/2018 23:17	WG1184313
n-Butylbenzene	U		0.00460	0.0150	1	10/21/2018 23:17	WG1184313
sec-Butylbenzene	U		0.00303	0.0150	1	10/21/2018 23:17	WG1184313
tert-Butylbenzene	U		0.00185	0.00598	1	10/21/2018 23:17	WG1184313
Carbon disulfide	U		0.00486	0.0150	1	10/21/2018 23:17	WG1184313
Carbon tetrachloride	U		0.00129	0.00598	1	10/21/2018 23:17	WG1184313
Chlorobenzene	U		0.000686	0.00299	1	10/21/2018 23:17	WG1184313
Chlorodibromomethane	U		0.000538	0.00299	1	10/21/2018 23:17	WG1184313
Chloroethane	U		0.00129	0.00598	1	10/21/2018 23:17	WG1184313
Chloroform	0.00168 U	B J	0.000497	0.00299	1	10/21/2018 23:17	WG1184313
Chloromethane	U		0.00166	0.0150	1	10/21/2018 23:17	WG1184313
2-Chlorotoluene	U		0.00110	0.00299	1	10/21/2018 23:17	WG1184313
4-Chlorotoluene	U		0.00135	0.00598	1	10/21/2018 23:17	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00610	0.0299	1	10/21/2018 23:17	WG1184313
1,2-Dibromoethane	U		0.000628	0.00299	1	10/21/2018 23:17	WG1184313
Dibromomethane	U		0.00120	0.00598	1	10/21/2018 23:17	WG1184313
1,2-Dichlorobenzene	U		0.00174	0.00598	1	10/21/2018 23:17	WG1184313
1,3-Dichlorobenzene	U		0.00203	0.00598	1	10/21/2018 23:17	WG1184313
1,4-Dichlorobenzene	U		0.00236	0.00598	1	10/21/2018 23:17	WG1184313
Dichlorodifluoromethane	U		0.000979	0.00299	1	10/21/2018 23:17	WG1184313
1,1-Dichloroethane	U		0.000688	0.00299	1	10/21/2018 23:17	WG1184313
1,2-Dichloroethane	U		0.000568	0.00299	1	10/21/2018 23:17	WG1184313
1,1-Dichloroethene	U		0.000598	0.00299	1	10/21/2018 23:17	WG1184313
cis-1,2-Dichloroethene	0.00481		0.000826	0.00299	1	10/21/2018 23:17	WG1184313
trans-1,2-Dichloroethene	U		0.00171	0.00598	1	10/21/2018 23:17	WG1184313
1,2-Dichloropropane	U		0.00152	0.00598	1	10/21/2018 23:17	WG1184313
1,1-Dichloropropene	U		0.000838	0.00299	1	10/21/2018 23:17	WG1184313
1,3-Dichloropropane	U		0.00209	0.00598	1	10/21/2018 23:17	WG1184313
cis-1,3-Dichloropropene	U		0.000811	0.00299	1	10/21/2018 23:17	WG1184313
trans-1,3-Dichloropropene	U		0.00183	0.00598	1	10/21/2018 23:17	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00168	0.00598	1	10/21/2018 23:17	WG1184313
2,2-Dichloropropane	U U	J4	0.000949	0.00299	1	10/21/2018 23:17	WG1184313
Di-isopropyl ether	U		0.000419	0.00120	1	10/23/2018 17:12	WG1185140
Ethylbenzene	U		0.000634	0.00299	1	10/21/2018 23:17	WG1184313
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	10/21/2018 23:17	WG1184313
2-Hexanone	U		0.0120	0.0299	1	10/21/2018 23:17	WG1184313
n-Hexane	U		0.00127	0.00598	1	10/21/2018 23:17	WG1184313
Iodomethane	U		0.00724	0.0150	1	10/21/2018 23:17	WG1184313
Isopropylbenzene	U		0.00103	0.00299	1	10/21/2018 23:17	WG1184313
p-Isopropyltoluene	U		0.00279	0.00598	1	10/21/2018 23:17	WG1184313
2-Butanone (MEK)	0.0268 J	J	0.0150	0.0299	1	10/21/2018 23:17	WG1184313
Methylene Chloride	U		0.00795	0.0299	1	10/21/2018 23:17	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1	10/21/2018 23:17	WG1184313

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1	10/23/2018 17:12	WG1185140
Naphthalene	U		0.00373	0.0150	1	10/21/2018 23:17	WG1184313
n-Propylbenzene	U		0.00141	0.00598	1	10/21/2018 23:17	WG1184313
Styrene	U		0.00327	0.0150	1	10/21/2018 23:17	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000598	0.00299	1	10/21/2018 23:17	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000467	0.00299	1	10/21/2018 23:17	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000808	0.00299	1	10/21/2018 23:17	WG1184313
Tetrachloroethene	0.538		0.000838	0.00299	1	10/23/2018 17:12	WG1185140
Toluene	U		0.00150	0.00598	1	10/21/2018 23:17	WG1184313
1,2,3-Trichlorobenzene	U		0.000748	0.00299	1	10/21/2018 23:17	WG1184313
1,2,4-Trichlorobenzene	U		0.00577	0.0150	1	10/23/2018 17:12	WG1185140
1,1,1-Trichloroethane	U		0.000329	0.00299	1	10/21/2018 23:17	WG1184313
1,1,2-Trichloroethane	U		0.00106	0.00299	1	10/21/2018 23:17	WG1184313
Trichloroethene	0.0149		0.000479	0.00120	1	10/23/2018 17:12	WG1185140
Trichlorofluoromethane	U		0.000598	0.00299	1	10/21/2018 23:17	WG1184313
1,2,3-Trichloropropane	U		0.00610	0.0150	1	10/21/2018 23:17	WG1184313
1,2,4-Trimethylbenzene	U		0.00139	0.00598	1	10/21/2018 23:17	WG1184313
1,2,3-Trimethylbenzene	U		0.00138	0.00598	1	10/21/2018 23:17	WG1184313
1,3,5-Trimethylbenzene	U		0.00129	0.00598	1	10/21/2018 23:17	WG1184313
Vinyl acetate	U		0.00421	0.0150	1	10/21/2018 23:17	WG1184313
Vinyl chloride	U		0.000817	0.00299	1	10/21/2018 23:17	WG1184313
Xylenes, Total	U		0.00572	0.00778	1	10/21/2018 23:17	WG1184313
(S) Toluene-d8	*98.5*			*75.0-131*		*10/21/2018 23:17*	WG1184313
(S) Toluene-d8	*122*			*75.0-131*		*10/23/2018 17:12*	WG1185140
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/21/2018 23:17*	WG1184313
(S) Dibromofluoromethane	*91.9*			*65.0-129*		*10/23/2018 17:12*	WG1185140
(S) 4-Bromofluorobenzene	*118*			*67.0-138*		*10/21/2018 23:17*	WG1184313
(S) 4-Bromofluorobenzene	*93.9*			*67.0-138*		*10/23/2018 17:12*	WG1185140

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.7		1	10/24/2018 10:10	WG1184859

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0162	0.0295	1	10/21/2018 23:37	WG1184313
Acrylonitrile	U			0.00224	0.0148	1	10/21/2018 23:37	WG1184313
Benzene	U			0.00944	0.0236	20	10/23/2018 20:58	WG1185140
Bromobenzene	U			0.00124	0.0148	1	10/21/2018 23:37	WG1184313
Bromodichloromethane	U			0.000930	0.00295	1	10/21/2018 23:37	WG1184313
Bromochloromethane	U			0.00133	0.00590	1	10/21/2018 23:37	WG1184313
Bromoform	U			0.00706	0.0295	1	10/21/2018 23:37	WG1184313
Bromomethane	U			0.00437	0.0148	1	10/21/2018 23:37	WG1184313
n-Butylbenzene	U			0.00453	0.0148	1	10/21/2018 23:37	WG1184313
sec-Butylbenzene	U			0.00299	0.0148	1	10/21/2018 23:37	WG1184313
tert-Butylbenzene	U			0.00183	0.00590	1	10/21/2018 23:37	WG1184313
Carbon disulfide	U			0.00479	0.0148	1	10/21/2018 23:37	WG1184313
Carbon tetrachloride	U			0.00127	0.00590	1	10/21/2018 23:37	WG1184313
Chlorobenzene	U			0.000676	0.00295	1	10/21/2018 23:37	WG1184313
Chlorodibromomethane	U			0.000531	0.00295	1	10/21/2018 23:37	WG1184313
Chloroethane	U			0.00127	0.00590	1	10/21/2018 23:37	WG1184313
Chloroform	0.00158	U	B J	0.000490	0.00295	1	10/21/2018 23:37	WG1184313
Chloromethane	U			0.00164	0.0148	1	10/21/2018 23:37	WG1184313
2-Chlorotoluene	U			0.00109	0.00295	1	10/21/2018 23:37	WG1184313
4-Chlorotoluene	U			0.00133	0.00590	1	10/21/2018 23:37	WG1184313
1,2-Dibromo-3-Chloropropane	U			0.00602	0.0295	1	10/21/2018 23:37	WG1184313
1,2-Dibromoethane	U			0.000620	0.00295	1	10/21/2018 23:37	WG1184313
Dibromomethane	U			0.00118	0.00590	1	10/21/2018 23:37	WG1184313
1,2-Dichlorobenzene	U			0.00171	0.00590	1	10/21/2018 23:37	WG1184313
1,3-Dichlorobenzene	U			0.00201	0.00590	1	10/21/2018 23:37	WG1184313
1,4-Dichlorobenzene	U			0.00232	0.00590	1	10/21/2018 23:37	WG1184313
Dichlorodifluoromethane	U			0.000965	0.00295	1	10/21/2018 23:37	WG1184313
1,1-Dichloroethane	U			0.000679	0.00295	1	10/21/2018 23:37	WG1184313
1,2-Dichloroethane	U			0.000561	0.00295	1	10/21/2018 23:37	WG1184313
1,1-Dichloroethene	0.000600	J	J	0.000590	0.00295	1	10/21/2018 23:37	WG1184313
cis-1,2-Dichloroethene	0.0119			0.000814	0.00295	1	10/21/2018 23:37	WG1184313
trans-1,2-Dichloroethene	U			0.00169	0.00590	1	10/21/2018 23:37	WG1184313
1,2-Dichloropropane	U			0.00150	0.00590	1	10/21/2018 23:37	WG1184313
1,1-Dichloropropene	U			0.000826	0.00295	1	10/21/2018 23:37	WG1184313
1,3-Dichloropropane	U			0.00207	0.00590	1	10/21/2018 23:37	WG1184313
cis-1,3-Dichloropropene	U			0.000800	0.00295	1	10/21/2018 23:37	WG1184313
trans-1,3-Dichloropropene	U			0.00181	0.00590	1	10/21/2018 23:37	WG1184313
trans-1,4-Dichloro-2-butene	U			0.00165	0.00590	1	10/21/2018 23:37	WG1184313
2,2-Dichloropropane	0.000945	J	J J4	0.000936	0.00295	1	10/21/2018 23:37	WG1184313
Di-isopropyl ether	U			0.00826	0.0236	20	10/23/2018 20:58	WG1185140
Ethylbenzene	U			0.000625	0.00295	1	10/21/2018 23:37	WG1184313
Hexachloro-1,3-butadiene	U			0.0150	0.0295	1	10/21/2018 23:37	WG1184313
2-Hexanone	U			0.0118	0.0295	1	10/21/2018 23:37	WG1184313
n-Hexane	U			0.00125	0.00590	1	10/21/2018 23:37	WG1184313
Iodomethane	U			0.00714	0.0148	1	10/21/2018 23:37	WG1184313
Isopropylbenzene	U			0.00102	0.00295	1	10/21/2018 23:37	WG1184313
p-Isopropyltoluene	U			0.00275	0.00590	1	10/21/2018 23:37	WG1184313
2-Butanone (MEK)	0.0343			0.0148	0.0295	1	10/21/2018 23:37	WG1184313
Methylene Chloride	U			0.00784	0.0295	1	10/21/2018 23:37	WG1184313
4-Methyl-2-pentanone (MIBK)	U			0.0118	0.0295	1	10/21/2018 23:37	WG1184313

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.00696	0.0236	20	10/23/2018 20:58	WG1185140
Naphthalene	U		0.00368	0.0148	1	10/21/2018 23:37	WG1184313
n-Propylbenzene	U		0.00139	0.00590	1	10/21/2018 23:37	WG1184313
Styrene	U		0.00322	0.0148	1	10/21/2018 23:37	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000590	0.00295	1	10/21/2018 23:37	WG1184313
1,1,2,2-Tetrachloroethane	0.000480 J	J	0.000460	0.00295	1	10/21/2018 23:37	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000797	0.00295	1	10/21/2018 23:37	WG1184313
Tetrachloroethene	16.2		0.0165	0.0590	20	10/23/2018 20:58	WG1185140
Toluene	U		0.00148	0.00590	1	10/21/2018 23:37	WG1184313
1,2,3-Trichlorobenzene	U		0.000738	0.00295	1	10/21/2018 23:37	WG1184313
1,2,4-Trichlorobenzene	U		0.114	0.295	20	10/23/2018 20:58	WG1185140
1,1,1-Trichloroethane	U		0.000325	0.00295	1	10/21/2018 23:37	WG1184313
1,1,2-Trichloroethane	U		0.00104	0.00295	1	10/21/2018 23:37	WG1184313
Trichloroethene	0.0763		0.00944	0.0236	20	10/23/2018 20:58	WG1185140
Trichlorofluoromethane	U		0.000590	0.00295	1	10/21/2018 23:37	WG1184313
1,2,3-Trichloropropane	U		0.00602	0.0148	1	10/21/2018 23:37	WG1184313
1,2,4-Trimethylbenzene	U		0.00137	0.00590	1	10/21/2018 23:37	WG1184313
1,2,3-Trimethylbenzene	0.00234 J	J	0.00136	0.00590	1	10/21/2018 23:37	WG1184313
1,3,5-Trimethylbenzene	0.00148 J	J	0.00127	0.00590	1	10/21/2018 23:37	WG1184313
Vinyl acetate	U		0.00415	0.0148	1	10/21/2018 23:37	WG1184313
Vinyl chloride	U		0.000806	0.00295	1	10/21/2018 23:37	WG1184313
Xylenes, Total	U		0.00564	0.00767	1	10/21/2018 23:37	WG1184313
(S) Toluene-d8	*97.6*			*75.0-131*		*10/21/2018 23:37*	WG1184313
(S) Toluene-d8	*116*			*75.0-131*		*10/23/2018 20:58*	WG1185140
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/21/2018 23:37*	WG1184313
(S) Dibromofluoromethane	*101*			*65.0-129*		*10/23/2018 20:58*	WG1185140
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/21/2018 23:37*	WG1184313
(S) 4-Bromofluorobenzene	*91.3*			*67.0-138*		*10/23/2018 20:58*	WG1185140

Sample Narrative:

L1036155-08 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-08 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.6		1	10/24/2018 10:10	WG1184859

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0153	0.0279	1	10/21/2018 23:57	WG1184313
Acrylonitrile	U		0.00212	0.0140	1	10/21/2018 23:57	WG1184313
Benzene	U		0.000446	0.00112	1	10/23/2018 17:32	WG1185140
Bromobenzene	U		0.00117	0.0140	1	10/21/2018 23:57	WG1184313
Bromodichloromethane	U		0.000879	0.00279	1	10/21/2018 23:57	WG1184313
Bromochloromethane	U		0.00126	0.00558	1	10/21/2018 23:57	WG1184313
Bromoform	U		0.00667	0.0279	1	10/21/2018 23:57	WG1184313
Bromomethane	U		0.00413	0.0140	1	10/21/2018 23:57	WG1184313
n-Butylbenzene	U		0.00429	0.0140	1	10/21/2018 23:57	WG1184313
sec-Butylbenzene	U		0.00282	0.0140	1	10/21/2018 23:57	WG1184313
tert-Butylbenzene	U		0.00173	0.00558	1	10/21/2018 23:57	WG1184313
Carbon disulfide	U		0.00453	0.0140	1	10/21/2018 23:57	WG1184313
Carbon tetrachloride	U		0.00121	0.00558	1	10/21/2018 23:57	WG1184313
Chlorobenzene	U		0.000640	0.00279	1	10/21/2018 23:57	WG1184313
Chlorodibromomethane	U		0.000502	0.00279	1	10/21/2018 23:57	WG1184313
Chloroethane	U		0.00121	0.00558	1	10/21/2018 23:57	WG1184313
Chloroform	0.00141 U	B J	0.000463	0.00279	1	10/21/2018 23:57	WG1184313
Chloromethane	U		0.00155	0.0140	1	10/21/2018 23:57	WG1184313
2-Chlorotoluene	U		0.00103	0.00279	1	10/21/2018 23:57	WG1184313
4-Chlorotoluene	U		0.00126	0.00558	1	10/21/2018 23:57	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00569	0.0279	1	10/21/2018 23:57	WG1184313
1,2-Dibromoethane	U		0.000586	0.00279	1	10/21/2018 23:57	WG1184313
Dibromomethane	U		0.00112	0.00558	1	10/21/2018 23:57	WG1184313
1,2-Dichlorobenzene	U		0.00162	0.00558	1	10/21/2018 23:57	WG1184313
1,3-Dichlorobenzene	U		0.00190	0.00558	1	10/21/2018 23:57	WG1184313
1,4-Dichlorobenzene	U		0.00220	0.00558	1	10/21/2018 23:57	WG1184313
Dichlorodifluoromethane	U		0.000913	0.00279	1	10/21/2018 23:57	WG1184313
1,1-Dichloroethane	U		0.000642	0.00279	1	10/21/2018 23:57	WG1184313
1,2-Dichloroethane	U		0.000530	0.00279	1	10/21/2018 23:57	WG1184313
1,1-Dichloroethene	U		0.000558	0.00279	1	10/21/2018 23:57	WG1184313
cis-1,2-Dichloroethene	0.0135		0.000770	0.00279	1	10/21/2018 23:57	WG1184313
trans-1,2-Dichloroethene	U		0.00160	0.00558	1	10/21/2018 23:57	WG1184313
1,2-Dichloropropane	U		0.00142	0.00558	1	10/21/2018 23:57	WG1184313
1,1-Dichloropropene	U		0.000781	0.00279	1	10/21/2018 23:57	WG1184313
1,3-Dichloropropane	U		0.00195	0.00558	1	10/21/2018 23:57	WG1184313
cis-1,3-Dichloropropene	U		0.000757	0.00279	1	10/21/2018 23:57	WG1184313
trans-1,3-Dichloropropene	U		0.00171	0.00558	1	10/21/2018 23:57	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00156	0.00558	1	10/21/2018 23:57	WG1184313
2,2-Dichloropropane	U U	J4	0.000885	0.00279	1	10/21/2018 23:57	WG1184313
Di-isopropyl ether	U		0.000391	0.00112	1	10/23/2018 17:32	WG1185140
Ethylbenzene	U		0.000592	0.00279	1	10/21/2018 23:57	WG1184313
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/21/2018 23:57	WG1184313
2-Hexanone	U		0.0112	0.0279	1	10/21/2018 23:57	WG1184313
n-Hexane	U		0.00118	0.00558	1	10/21/2018 23:57	WG1184313
Iodomethane	U		0.00675	0.0140	1	10/21/2018 23:57	WG1184313
Isopropylbenzene	U		0.000963	0.00279	1	10/21/2018 23:57	WG1184313
p-Isopropyltoluene	U		0.00260	0.00558	1	10/21/2018 23:57	WG1184313
2-Butanone (MEK)	0.0211 J	J	0.0140	0.0279	1	10/21/2018 23:57	WG1184313
Methylene Chloride	U		0.00741	0.0279	1	10/21/2018 23:57	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	10/21/2018 23:57	WG1184313

JC 11/14/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00112	1	10/23/2018 17:32	WG1185140
Naphthalene	U		0.00348	0.0140	1	10/21/2018 23:57	WG1184313
n-Propylbenzene	U		0.00132	0.00558	1	10/21/2018 23:57	WG1184313
Styrene	U		0.00305	0.0140	1	10/21/2018 23:57	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000558	0.00279	1	10/21/2018 23:57	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	10/21/2018 23:57	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000753	0.00279	1	10/21/2018 23:57	WG1184313
Tetrachloroethene	3.71		0.00313	0.0112	4	10/25/2018 00:22	WG1185815
Toluene	U		0.00140	0.00558	1	10/21/2018 23:57	WG1184313
1,2,3-Trichlorobenzene	U		0.000698	0.00279	1	10/21/2018 23:57	WG1184313
1,2,4-Trichlorobenzene	U		0.00538	0.0140	1	10/23/2018 17:32	WG1185140
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/21/2018 23:57	WG1184313
1,1,2-Trichloroethane	U		0.000986	0.00279	1	10/21/2018 23:57	WG1184313
Trichloroethene	0.0117		0.000446	0.00112	1	10/23/2018 17:32	WG1185140
Trichlorofluoromethane	U		0.000558	0.00279	1	10/21/2018 23:57	WG1184313
1,2,3-Trichloropropane	U		0.00569	0.0140	1	10/21/2018 23:57	WG1184313
1,2,4-Trimethylbenzene	U		0.00129	0.00558	1	10/21/2018 23:57	WG1184313
1,2,3-Trimethylbenzene	U		0.00128	0.00558	1	10/21/2018 23:57	WG1184313
1,3,5-Trimethylbenzene	U		0.00121	0.00558	1	10/21/2018 23:57	WG1184313
Vinyl acetate	U		0.00393	0.0140	1	10/21/2018 23:57	WG1184313
Vinyl chloride	U		0.000762	0.00279	1	10/21/2018 23:57	WG1184313
Xylenes, Total	U		0.00533	0.00725	1	10/21/2018 23:57	WG1184313
(S) Toluene-d8	*98.8*			*75.0-131*		*10/21/2018 23:57*	WG1184313
(S) Toluene-d8	*126*			*75.0-131*		*10/23/2018 17:32*	WG1185140
(S) Toluene-d8	*104*			*75.0-131*		*10/25/2018 00:22*	WG1185815
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/21/2018 23:57*	WG1184313
(S) Dibromofluoromethane	*92.9*			*65.0-129*		*10/23/2018 17:32*	WG1185140
(S) Dibromofluoromethane	*100*			*65.0-129*		*10/25/2018 00:22*	WG1185815
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/21/2018 23:57*	WG1184313
(S) 4-Bromofluorobenzene	*87.7*			*67.0-138*		*10/23/2018 17:32*	WG1185140
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/25/2018 00:22*	WG1185815

JC 11/14/18

B-259-2.5

Collected date/time: 10/17/18 09:45

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.8		1	10/24/2018 10:10	WG1184859

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0154	0.0281	1	10/22/2018 00:17	WG1184313
Acrylonitrile	U		0.00214	0.0141	1	10/22/2018 00:17	WG1184313
Benzene	U		0.000450	0.00113	1	10/23/2018 17:53	WG1185140
Bromobenzene	U		0.00118	0.0141	1	10/22/2018 00:17	WG1184313
Bromodichloromethane	U		0.000887	0.00281	1	10/22/2018 00:17	WG1184313
Bromochloromethane	U		0.00127	0.00563	1	10/22/2018 00:17	WG1184313
Bromoform	U		0.00673	0.0281	1	10/22/2018 00:17	WG1184313
Bromomethane	U		0.00416	0.0141	1	10/22/2018 00:17	WG1184313
n-Butylbenzene	U		0.00432	0.0141	1	10/22/2018 00:17	WG1184313
sec-Butylbenzene	U		0.00285	0.0141	1	10/22/2018 00:17	WG1184313
tert-Butylbenzene	U		0.00174	0.00563	1	10/22/2018 00:17	WG1184313
Carbon disulfide	U		0.00457	0.0141	1	10/22/2018 00:17	WG1184313
Carbon tetrachloride	U		0.00122	0.00563	1	10/22/2018 00:17	WG1184313
Chlorobenzene	U		0.000645	0.00281	1	10/22/2018 00:17	WG1184313
Chlorodibromomethane	U		0.000506	0.00281	1	10/22/2018 00:17	WG1184313
Chloroethane	U		0.00122	0.00563	1	10/22/2018 00:17	WG1184313
Chloroform	0.00211 U	B J	0.000467	0.00281	1	10/22/2018 00:17	WG1184313
Chloromethane	U		0.00156	0.0141	1	10/22/2018 00:17	WG1184313
2-Chlorotoluene	U		0.00104	0.00281	1	10/22/2018 00:17	WG1184313
4-Chlorotoluene	U		0.00127	0.00563	1	10/22/2018 00:17	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00574	0.0281	1	10/22/2018 00:17	WG1184313
1,2-Dibromoethane	U		0.000591	0.00281	1	10/22/2018 00:17	WG1184313
Dibromomethane	U		0.00113	0.00563	1	10/22/2018 00:17	WG1184313
1,2-Dichlorobenzene	U		0.00163	0.00563	1	10/22/2018 00:17	WG1184313
1,3-Dichlorobenzene	U		0.00191	0.00563	1	10/22/2018 00:17	WG1184313
1,4-Dichlorobenzene	U		0.00222	0.00563	1	10/22/2018 00:17	WG1184313
Dichlorodifluoromethane	U		0.000921	0.00281	1	10/22/2018 00:17	WG1184313
1,1-Dichloroethane	U		0.000647	0.00281	1	10/22/2018 00:17	WG1184313
1,2-Dichloroethane	U		0.000535	0.00281	1	10/22/2018 00:17	WG1184313
1,1-Dichloroethene	U		0.000563	0.00281	1	10/22/2018 00:17	WG1184313
cis-1,2-Dichloroethene	0.00815		0.000777	0.00281	1	10/22/2018 00:17	WG1184313
trans-1,2-Dichloroethene	U		0.00161	0.00563	1	10/22/2018 00:17	WG1184313
1,2-Dichloropropane	U		0.00143	0.00563	1	10/22/2018 00:17	WG1184313
1,1-Dichloropropene	U		0.000788	0.00281	1	10/22/2018 00:17	WG1184313
1,3-Dichloropropane	U		0.00197	0.00563	1	10/22/2018 00:17	WG1184313
cis-1,3-Dichloropropene	U		0.000763	0.00281	1	10/22/2018 00:17	WG1184313
trans-1,3-Dichloropropene	U		0.00172	0.00563	1	10/22/2018 00:17	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00158	0.00563	1	10/22/2018 00:17	WG1184313
2,2-Dichloropropane	U U	J4	0.000893	0.00281	1	10/22/2018 00:17	WG1184313
Di-isopropyl ether	U		0.000394	0.00113	1	10/23/2018 17:53	WG1185140
Ethylbenzene	U		0.000597	0.00281	1	10/22/2018 00:17	WG1184313
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 00:17	WG1184313
2-Hexanone	U		0.0113	0.0281	1	10/22/2018 00:17	WG1184313
n-Hexane	0.00602		0.00119	0.00563	1	10/22/2018 00:17	WG1184313
Iodomethane	U		0.00681	0.0141	1	10/22/2018 00:17	WG1184313
Isopropylbenzene	U		0.000971	0.00281	1	10/22/2018 00:17	WG1184313
p-Isopropyltoluene	U		0.00262	0.00563	1	10/22/2018 00:17	WG1184313
2-Butanone (MEK)	0.0274 J	J	0.0141	0.0281	1	10/22/2018 00:17	WG1184313
Methylene Chloride	U		0.00747	0.0281	1	10/22/2018 00:17	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0281	1	10/22/2018 00:17	WG1184313

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B-259-2.5

Collected date/time: 10/17/18 09:45

SAMPLE RESULTS - 10

L1036155

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00113	1	10/23/2018 17:53	WG1185140
Naphthalene	U		0.00351	0.0141	1	10/22/2018 00:17	WG1184313
n-Propylbenzene	U		0.00133	0.00563	1	10/22/2018 00:17	WG1184313
Styrene	U		0.00307	0.0141	1	10/22/2018 00:17	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000563	0.00281	1	10/22/2018 00:17	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000439	0.00281	1	10/22/2018 00:17	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000760	0.00281	1	10/22/2018 00:17	WG1184313
Tetrachloroethene	0.0784		0.000788	0.00281	1	10/23/2018 17:53	WG1185140
Toluene	0.00189 J	J	0.00141	0.00563	1	10/22/2018 00:17	WG1184313
1,2,3-Trichlorobenzene	U		0.000703	0.00281	1	10/22/2018 00:17	WG1184313
1,2,4-Trichlorobenzene	U		0.00542	0.0141	1	10/23/2018 17:53	WG1185140
1,1,1-Trichloroethane	U		0.000310	0.00281	1	10/22/2018 00:17	WG1184313
1,1,2-Trichloroethane	0.00199 J	J	0.000994	0.00281	1	10/22/2018 00:17	WG1184313
Trichloroethene	0.00504		0.000450	0.00113	1	10/23/2018 17:53	WG1185140
Trichlorofluoromethane	U		0.000563	0.00281	1	10/22/2018 00:17	WG1184313
1,2,3-Trichloropropane	U		0.00574	0.0141	1	10/22/2018 00:17	WG1184313
1,2,4-Trimethylbenzene	U		0.00131	0.00563	1	10/22/2018 00:17	WG1184313
1,2,3-Trimethylbenzene	U		0.00129	0.00563	1	10/22/2018 00:17	WG1184313
1,3,5-Trimethylbenzene	U		0.00122	0.00563	1	10/22/2018 00:17	WG1184313
Vinyl acetate	U		0.00396	0.0141	1	10/22/2018 00:17	WG1184313
Vinyl chloride	U		0.000769	0.00281	1	10/22/2018 00:17	WG1184313
Xylenes, Total	U		0.00538	0.00732	1	10/22/2018 00:17	WG1184313
(S) Toluene-d8	*101*			*75.0-131*		*10/22/2018 00:17*	WG1184313
(S) Toluene-d8	*128*			*75.0-131*		*10/23/2018 17:53*	WG1185140
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/22/2018 00:17*	WG1184313
(S) Dibromofluoromethane	*89.5*			*65.0-129*		*10/23/2018 17:53*	WG1185140
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/22/2018 00:17*	WG1184313
(S) 4-Bromofluorobenzene	*99.3*			*67.0-138*		*10/23/2018 17:53*	WG1185140

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B-259-5

Collected date/time: 10/17/18 09:46

SAMPLE RESULTS - 11

L1036155

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.3		1	10/24/2018 10:10	WG1184859

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0274	1	10/22/2018 00:38	WG1184313
Acrylonitrile	U		0.00208	0.0137	1	10/22/2018 00:38	WG1184313
Benzene	U		0.000438	0.00110	1	10/23/2018 18:14	WG1185140
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 00:38	WG1184313
Bromodichloromethane	U		0.000864	0.00274	1	10/22/2018 00:38	WG1184313
Bromochloromethane	U		0.00124	0.00548	1	10/22/2018 00:38	WG1184313
Bromoform	U		0.00655	0.0274	1	10/22/2018 00:38	WG1184313
Bromomethane	U		0.00405	0.0137	1	10/22/2018 00:38	WG1184313
n-Butylbenzene	U		0.00421	0.0137	1	10/22/2018 00:38	WG1184313
sec-Butylbenzene	U		0.00277	0.0137	1	10/22/2018 00:38	WG1184313
tert-Butylbenzene	U		0.00170	0.00548	1	10/22/2018 00:38	WG1184313
Carbon disulfide	U		0.00445	0.0137	1	10/22/2018 00:38	WG1184313
Carbon tetrachloride	U		0.00118	0.00548	1	10/22/2018 00:38	WG1184313
Chlorobenzene	U		0.000628	0.00274	1	10/22/2018 00:38	WG1184313
Chlorodibromomethane	U		0.000493	0.00274	1	10/22/2018 00:38	WG1184313
Chloroethane	U		0.00118	0.00548	1	10/22/2018 00:38	WG1184313
Chloroform	0.00140 U	B J	0.000455	0.00274	1	10/22/2018 00:38	WG1184313
Chloromethane	U		0.00152	0.0137	1	10/22/2018 00:38	WG1184313
2-Chlorotoluene	U		0.00101	0.00274	1	10/22/2018 00:38	WG1184313
4-Chlorotoluene	U		0.00124	0.00548	1	10/22/2018 00:38	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00559	0.0274	1	10/22/2018 00:38	WG1184313
1,2-Dibromoethane	U		0.000575	0.00274	1	10/22/2018 00:38	WG1184313
Dibromomethane	U		0.00110	0.00548	1	10/22/2018 00:38	WG1184313
1,2-Dichlorobenzene	U		0.00159	0.00548	1	10/22/2018 00:38	WG1184313
1,3-Dichlorobenzene	U		0.00186	0.00548	1	10/22/2018 00:38	WG1184313
1,4-Dichlorobenzene	U		0.00216	0.00548	1	10/22/2018 00:38	WG1184313
Dichlorodifluoromethane	U		0.000896	0.00274	1	10/22/2018 00:38	WG1184313
1,1-Dichloroethane	U		0.000630	0.00274	1	10/22/2018 00:38	WG1184313
1,2-Dichloroethane	U		0.000521	0.00274	1	10/22/2018 00:38	WG1184313
1,1-Dichloroethene	U		0.000548	0.00274	1	10/22/2018 00:38	WG1184313
cis-1,2-Dichloroethene	0.0696		0.000756	0.00274	1	10/22/2018 00:38	WG1184313
trans-1,2-Dichloroethene	U		0.00157	0.00548	1	10/22/2018 00:38	WG1184313
1,2-Dichloropropane	U		0.00139	0.00548	1	10/22/2018 00:38	WG1184313
1,1-Dichloropropene	U		0.000767	0.00274	1	10/22/2018 00:38	WG1184313
1,3-Dichloropropane	U		0.00192	0.00548	1	10/22/2018 00:38	WG1184313
cis-1,3-Dichloropropene	U		0.000743	0.00274	1	10/22/2018 00:38	WG1184313
trans-1,3-Dichloropropene	U		0.00168	0.00548	1	10/22/2018 00:38	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00153	0.00548	1	10/22/2018 00:38	WG1184313
2,2-Dichloropropane	U U	J4	0.000869	0.00274	1	10/22/2018 00:38	WG1184313
Di-isopropyl ether	U		0.000384	0.00110	1	10/23/2018 18:14	WG1185140
Ethylbenzene	U		0.000581	0.00274	1	10/22/2018 00:38	WG1184313
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	10/22/2018 00:38	WG1184313
2-Hexanone	U		0.0110	0.0274	1	10/22/2018 00:38	WG1184313
n-Hexane	U		0.00116	0.00548	1	10/22/2018 00:38	WG1184313
Iodomethane	U		0.00663	0.0137	1	10/22/2018 00:38	WG1184313
Isopropylbenzene	U		0.000946	0.00274	1	10/22/2018 00:38	WG1184313
p-Isopropyltoluene	U		0.00255	0.00548	1	10/22/2018 00:38	WG1184313
2-Butanone (MEK)	0.0348		0.0137	0.0274	1	10/22/2018 00:38	WG1184313
Methylene Chloride	U		0.00728	0.0274	1	10/22/2018 00:38	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	10/22/2018 00:38	WG1184313

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00110	1	10/23/2018 18:14	WG1185140
Naphthalene	U		0.00342	0.0137	1	10/22/2018 00:38	WG1184313
n-Propylbenzene	U		0.00129	0.00548	1	10/22/2018 00:38	WG1184313
Styrene	U		0.00299	0.0137	1	10/22/2018 00:38	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000548	0.00274	1	10/22/2018 00:38	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000427	0.00274	1	10/22/2018 00:38	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000740	0.00274	1	10/22/2018 00:38	WG1184313
Tetrachloroethene	0.00933		0.000767	0.00274	1	10/23/2018 18:14	WG1185140
Toluene	U		0.00137	0.00548	1	10/22/2018 00:38	WG1184313
1,2,3-Trichlorobenzene	U		0.000685	0.00274	1	10/22/2018 00:38	WG1184313
1,2,4-Trichlorobenzene	U		0.00528	0.0137	1	10/23/2018 18:14	WG1185140
1,1,1-Trichloroethane	U		0.000301	0.00274	1	10/22/2018 00:38	WG1184313
1,1,2-Trichloroethane	U		0.000968	0.00274	1	10/22/2018 00:38	WG1184313
Trichloroethene	0.00910		0.000438	0.00110	1	10/23/2018 18:14	WG1185140
Trichlorofluoromethane	U		0.000548	0.00274	1	10/22/2018 00:38	WG1184313
1,2,3-Trichloropropane	U		0.00559	0.0137	1	10/22/2018 00:38	WG1184313
1,2,4-Trimethylbenzene	U		0.00127	0.00548	1	10/22/2018 00:38	WG1184313
1,2,3-Trimethylbenzene	U		0.00126	0.00548	1	10/22/2018 00:38	WG1184313
1,3,5-Trimethylbenzene	U		0.00118	0.00548	1	10/22/2018 00:38	WG1184313
Vinyl acetate	U		0.00386	0.0137	1	10/22/2018 00:38	WG1184313
Vinyl chloride	0.00121 J	J	0.000748	0.00274	1	10/22/2018 00:38	WG1184313
Xylenes, Total	U		0.00524	0.00712	1	10/22/2018 00:38	WG1184313
(S) Toluene-d8	*90.8*			*75.0-131*		*10/22/2018 00:38*	WG1184313
(S) Toluene-d8	*127*			*75.0-131*		*10/23/2018 18:14*	WG1185140
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/22/2018 00:38*	WG1184313
(S) Dibromofluoromethane	*83.1*			*65.0-129*		*10/23/2018 18:14*	WG1185140
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/22/2018 00:38*	WG1184313
(S) 4-Bromofluorobenzene	*88.1*			*67.0-138*		*10/23/2018 18:14*	WG1185140

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.3		1	10/24/2018 10:00	WG1184860

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0286	1	10/22/2018 00:58	WG1184313
Acrylonitrile	U		0.00218	0.0143	1	10/22/2018 00:58	WG1184313
Benzene	U		0.000458	0.00115	1	10/23/2018 18:35	WG1185140
Bromobenzene	U		0.00120	0.0143	1	10/22/2018 00:58	WG1184313
Bromodichloromethane	U		0.000903	0.00286	1	10/22/2018 00:58	WG1184313
Bromochloromethane	U		0.00129	0.00573	1	10/22/2018 00:58	WG1184313
Bromoform	U		0.00685	0.0286	1	10/22/2018 00:58	WG1184313
Bromomethane	U		0.00424	0.0143	1	10/22/2018 00:58	WG1184313
n-Butylbenzene	U		0.00440	0.0143	1	10/22/2018 00:58	WG1184313
sec-Butylbenzene	U		0.00290	0.0143	1	10/22/2018 00:58	WG1184313
tert-Butylbenzene	U		0.00178	0.00573	1	10/22/2018 00:58	WG1184313
Carbon disulfide	U		0.00465	0.0143	1	10/22/2018 00:58	WG1184313
Carbon tetrachloride	U		0.00124	0.00573	1	10/22/2018 00:58	WG1184313
Chlorobenzene	U		0.000657	0.00286	1	10/22/2018 00:58	WG1184313
Chlorodibromomethane	U		0.000516	0.00286	1	10/22/2018 00:58	WG1184313
Chloroethane	U		0.00124	0.00573	1	10/22/2018 00:58	WG1184313
Chloroform	0.00244 U	B J	0.000476	0.00286	1	10/22/2018 00:58	WG1184313
Chloromethane	U		0.00159	0.0143	1	10/22/2018 00:58	WG1184313
2-Chlorotoluene	U		0.00105	0.00286	1	10/22/2018 00:58	WG1184313
4-Chlorotoluene	U		0.00129	0.00573	1	10/22/2018 00:58	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00584	0.0286	1	10/22/2018 00:58	WG1184313
1,2-Dibromoethane	U		0.000602	0.00286	1	10/22/2018 00:58	WG1184313
Dibromomethane	U		0.00115	0.00573	1	10/22/2018 00:58	WG1184313
1,2-Dichlorobenzene	U		0.00166	0.00573	1	10/22/2018 00:58	WG1184313
1,3-Dichlorobenzene	U		0.00195	0.00573	1	10/22/2018 00:58	WG1184313
1,4-Dichlorobenzene	U		0.00226	0.00573	1	10/22/2018 00:58	WG1184313
Dichlorodifluoromethane	U		0.000937	0.00286	1	10/22/2018 00:58	WG1184313
1,1-Dichloroethane	U		0.000659	0.00286	1	10/22/2018 00:58	WG1184313
1,2-Dichloroethane	U		0.000544	0.00286	1	10/22/2018 00:58	WG1184313
1,1-Dichloroethene	0.000899 J	J	0.000573	0.00286	1	10/22/2018 00:58	WG1184313
cis-1,2-Dichloroethene	0.105		0.000791	0.00286	1	10/22/2018 00:58	WG1184313
trans-1,2-Dichloroethene	U		0.00164	0.00573	1	10/22/2018 00:58	WG1184313
1,2-Dichloropropane	U		0.00146	0.00573	1	10/22/2018 00:58	WG1184313
1,1-Dichloropropene	U		0.000802	0.00286	1	10/22/2018 00:58	WG1184313
1,3-Dichloropropane	U		0.00201	0.00573	1	10/22/2018 00:58	WG1184313
cis-1,3-Dichloropropene	U		0.000777	0.00286	1	10/22/2018 00:58	WG1184313
trans-1,3-Dichloropropene	U		0.00175	0.00573	1	10/22/2018 00:58	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00160	0.00573	1	10/22/2018 00:58	WG1184313
2,2-Dichloropropane	U U	J4	0.000909	0.00286	1	10/22/2018 00:58	WG1184313
Di-isopropyl ether	U		0.000401	0.00115	1	10/23/2018 18:35	WG1185140
Ethylbenzene	U		0.000607	0.00286	1	10/22/2018 00:58	WG1184313
Hexachloro-1,3-butadiene	U		0.0146	0.0286	1	10/22/2018 00:58	WG1184313
2-Hexanone	U		0.0115	0.0286	1	10/22/2018 00:58	WG1184313
n-Hexane	U		0.00121	0.00573	1	10/22/2018 00:58	WG1184313
Iodomethane	U		0.00693	0.0143	1	10/22/2018 00:58	WG1184313
Isopropylbenzene	U		0.000989	0.00286	1	10/22/2018 00:58	WG1184313
p-Isopropyltoluene	U		0.00267	0.00573	1	10/22/2018 00:58	WG1184313
2-Butanone (MEK)	0.0255 J	J	0.0143	0.0286	1	10/22/2018 00:58	WG1184313
Methylene Chloride	U		0.00761	0.0286	1	10/22/2018 00:58	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0286	1	10/22/2018 00:58	WG1184313

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Collected date/time: 10/17/18 09:50

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L1036155

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000338	0.00115	1	10/23/2018 18:35	WG1185140
Naphthalene	U		0.00358	0.0143	1	10/22/2018 00:58	WG1184313
n-Propylbenzene	U		0.00135	0.00573	1	10/22/2018 00:58	WG1184313
Styrene	U		0.00313	0.0143	1	10/22/2018 00:58	WG1184313
1,1,1,2-Tetrachloroethane	0.000757 J	J	0.000573	0.00286	1	10/22/2018 00:58	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000447	0.00286	1	10/22/2018 00:58	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000773	0.00286	1	10/22/2018 00:58	WG1184313
Tetrachloroethene	0.00535		0.000802	0.00286	1	10/23/2018 18:35	WG1185140
Toluene	0.00224 J	J	0.00143	0.00573	1	10/22/2018 00:58	WG1184313
1,2,3-Trichlorobenzene	U		0.000716	0.00286	1	10/22/2018 00:58	WG1184313
1,2,4-Trichlorobenzene	U		0.00552	0.0143	1	10/23/2018 18:35	WG1185140
1,1,1-Trichloroethane	U		0.000315	0.00286	1	10/22/2018 00:58	WG1184313
1,1,2-Trichloroethane	U		0.00101	0.00286	1	10/22/2018 00:58	WG1184313
Trichloroethene	0.00372		0.000458	0.00115	1	10/23/2018 18:35	WG1185140
Trichlorofluoromethane	U		0.000573	0.00286	1	10/22/2018 00:58	WG1184313
1,2,3-Trichloropropane	U		0.00584	0.0143	1	10/22/2018 00:58	WG1184313
1,2,4-Trimethylbenzene	U		0.00133	0.00573	1	10/22/2018 00:58	WG1184313
1,2,3-Trimethylbenzene	U		0.00132	0.00573	1	10/22/2018 00:58	WG1184313
1,3,5-Trimethylbenzene	U		0.00124	0.00573	1	10/22/2018 00:58	WG1184313
Vinyl acetate	U		0.00403	0.0143	1	10/22/2018 00:58	WG1184313
Vinyl chloride	0.00257 J	J	0.000783	0.00286	1	10/22/2018 00:58	WG1184313
Xylenes, Total	U		0.00548	0.00745	1	10/22/2018 00:58	WG1184313
(S) Toluene-d8	*99.3*			*75.0-131*		*10/22/2018 00:58*	WG1184313
(S) Toluene-d8	*125*			*75.0-131*		*10/23/2018 18:35*	WG1185140
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/22/2018 00:58*	WG1184313
(S) Dibromofluoromethane	*94.1*			*65.0-129*		*10/23/2018 18:35*	WG1185140
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*10/22/2018 00:58*	WG1184313
(S) 4-Bromofluorobenzene	*94.5*			*67.0-138*		*10/23/2018 18:35*	WG1185140

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.2		1	10/24/2018 10:00	WG1184860

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0161	0.0294	1	10/22/2018 01:18	WG1184313
Acrylonitrile	U		0.00223	0.0147	1	10/22/2018 01:18	WG1184313
Benzene	U		0.000470	0.00117	1	10/23/2018 18:55	WG1185140
Bromobenzene	U		0.00123	0.0147	1	10/22/2018 01:18	WG1184313
Bromodichloromethane	U		0.000925	0.00294	1	10/22/2018 01:18	WG1184313
Bromochloromethane	U		0.00133	0.00587	1	10/22/2018 01:18	WG1184313
Bromoform	U		0.00702	0.0294	1	10/22/2018 01:18	WG1184313
Bromomethane	U		0.00434	0.0147	1	10/22/2018 01:18	WG1184313
n-Butylbenzene	U		0.00451	0.0147	1	10/22/2018 01:18	WG1184313
sec-Butylbenzene	U		0.00297	0.0147	1	10/22/2018 01:18	WG1184313
tert-Butylbenzene	U		0.00182	0.00587	1	10/22/2018 01:18	WG1184313
Carbon disulfide	U		0.00477	0.0147	1	10/22/2018 01:18	WG1184313
Carbon tetrachloride	U		0.00127	0.00587	1	10/22/2018 01:18	WG1184313
Chlorobenzene	U		0.000673	0.00294	1	10/22/2018 01:18	WG1184313
Chlorodibromomethane	U		0.000528	0.00294	1	10/22/2018 01:18	WG1184313
Chloroethane	U		0.00127	0.00587	1	10/22/2018 01:18	WG1184313
Chloroform	0.00189 U	B J	0.000487	0.00294	1	10/22/2018 01:18	WG1184313
Chloromethane	U		0.00163	0.0147	1	10/22/2018 01:18	WG1184313
2-Chlorotoluene	U		0.00108	0.00294	1	10/22/2018 01:18	WG1184313
4-Chlorotoluene	U		0.00133	0.00587	1	10/22/2018 01:18	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00599	0.0294	1	10/22/2018 01:18	WG1184313
1,2-Dibromoethane	U		0.000616	0.00294	1	10/22/2018 01:18	WG1184313
Dibromomethane	U		0.00117	0.00587	1	10/22/2018 01:18	WG1184313
1,2-Dichlorobenzene	U		0.00170	0.00587	1	10/22/2018 01:18	WG1184313
1,3-Dichlorobenzene	U		0.00200	0.00587	1	10/22/2018 01:18	WG1184313
1,4-Dichlorobenzene	U		0.00231	0.00587	1	10/22/2018 01:18	WG1184313
Dichlorodifluoromethane	U		0.000960	0.00294	1	10/22/2018 01:18	WG1184313
1,1-Dichloroethane	U		0.000675	0.00294	1	10/22/2018 01:18	WG1184313
1,2-Dichloroethane	U		0.000558	0.00294	1	10/22/2018 01:18	WG1184313
1,1-Dichloroethene	0.00509		0.000587	0.00294	1	10/22/2018 01:18	WG1184313
cis-1,2-Dichloroethene	0.715		0.000810	0.00294	1	10/22/2018 01:18	WG1184313
trans-1,2-Dichloroethene	0.00395 J	J	0.00168	0.00587	1	10/22/2018 01:18	WG1184313
1,2-Dichloropropane	U		0.00149	0.00587	1	10/22/2018 01:18	WG1184313
1,1-Dichloropropene	U		0.000822	0.00294	1	10/22/2018 01:18	WG1184313
1,3-Dichloropropane	U		0.00205	0.00587	1	10/22/2018 01:18	WG1184313
cis-1,3-Dichloropropene	U		0.000796	0.00294	1	10/22/2018 01:18	WG1184313
trans-1,3-Dichloropropene	U		0.00180	0.00587	1	10/22/2018 01:18	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00164	0.00587	1	10/22/2018 01:18	WG1184313
2,2-Dichloropropane	U U	J4	0.000931	0.00294	1	10/22/2018 01:18	WG1184313
Di-isopropyl ether	U		0.000411	0.00117	1	10/23/2018 18:55	WG1185140
Ethylbenzene	U		0.000622	0.00294	1	10/22/2018 01:18	WG1184313
Hexachloro-1,3-butadiene	U		0.0149	0.0294	1	10/22/2018 01:18	WG1184313
2-Hexanone	U		0.0117	0.0294	1	10/22/2018 01:18	WG1184313
n-Hexane	U		0.00124	0.00587	1	10/22/2018 01:18	WG1184313
Iodomethane	U		0.00710	0.0147	1	10/22/2018 01:18	WG1184313
Isopropylbenzene	U		0.00101	0.00294	1	10/22/2018 01:18	WG1184313
p-Isopropyltoluene	U		0.00274	0.00587	1	10/22/2018 01:18	WG1184313
2-Butanone (MEK)	0.0272 J	J	0.0147	0.0294	1	10/22/2018 01:18	WG1184313
Methylene Chloride	U		0.00780	0.0294	1	10/22/2018 01:18	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0294	1	10/22/2018 01:18	WG1184313

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B-259-15

Collected date/time: 10/17/18 09:55

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L1036155

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000346	0.00117	1	10/23/2018 18:55	WG1185140
Naphthalene	U		0.00366	0.0147	1	10/22/2018 01:18	WG1184313
n-Propylbenzene	U		0.00139	0.00587	1	10/22/2018 01:18	WG1184313
Styrene	U		0.00321	0.0147	1	10/22/2018 01:18	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000587	0.00294	1	10/22/2018 01:18	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000458	0.00294	1	10/22/2018 01:18	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000792	0.00294	1	10/22/2018 01:18	WG1184313
Tetrachloroethene	0.0251		0.000822	0.00294	1	10/23/2018 18:55	WG1185140
Toluene	0.00152 J	J	0.00147	0.00587	1	10/22/2018 01:18	WG1184313
1,2,3-Trichlorobenzene	U		0.000734	0.00294	1	10/22/2018 01:18	WG1184313
1,2,4-Trichlorobenzene	U		0.00566	0.0147	1	10/23/2018 18:55	WG1185140
1,1,1-Trichloroethane	U		0.000323	0.00294	1	10/22/2018 01:18	WG1184313
1,1,2-Trichloroethane	U		0.00104	0.00294	1	10/22/2018 01:18	WG1184313
Trichloroethene	0.0103		0.000470	0.00117	1	10/23/2018 18:55	WG1185140
Trichlorofluoromethane	U		0.000587	0.00294	1	10/22/2018 01:18	WG1184313
1,2,3-Trichloropropane	U		0.00599	0.0147	1	10/22/2018 01:18	WG1184313
1,2,4-Trimethylbenzene	U		0.00136	0.00587	1	10/22/2018 01:18	WG1184313
1,2,3-Trimethylbenzene	U		0.00135	0.00587	1	10/22/2018 01:18	WG1184313
1,3,5-Trimethylbenzene	U		0.00127	0.00587	1	10/22/2018 01:18	WG1184313
Vinyl acetate	U		0.00413	0.0147	1	10/22/2018 01:18	WG1184313
Vinyl chloride	0.166		0.000802	0.00294	1	10/22/2018 01:18	WG1184313
Xylenes, Total	U		0.00561	0.00763	1	10/22/2018 01:18	WG1184313
(S) Toluene-d8	*99.7*			*75.0-131*		*10/22/2018 01:18*	WG1184313
(S) Toluene-d8	*121*			*75.0-131*		*10/23/2018 18:55*	WG1185140
(S) Dibromofluoromethane	*110*			*65.0-129*		*10/22/2018 01:18*	WG1184313
(S) Dibromofluoromethane	*93.3*			*65.0-129*		*10/23/2018 18:55*	WG1185140
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/22/2018 01:18*	WG1184313
(S) 4-Bromofluorobenzene	*90.5*			*67.0-138*		*10/23/2018 18:55*	WG1185140

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.5		1	10/24/2018 10:00	WG1184860

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0153	0.0279	1	10/22/2018 01:38	WG1184313
Acrylonitrile	U		0.00212	0.0140	1	10/22/2018 01:38	WG1184313
Benzene	U		0.000447	0.00112	1	10/23/2018 19:16	WG1185140
Bromobenzene	U		0.00117	0.0140	1	10/22/2018 01:38	WG1184313
Bromodichloromethane	U		0.000881	0.00279	1	10/22/2018 01:38	WG1184313
Bromochloromethane	U		0.00126	0.00559	1	10/22/2018 01:38	WG1184313
Bromoform	U		0.00668	0.0279	1	10/22/2018 01:38	WG1184313
Bromomethane	U		0.00414	0.0140	1	10/22/2018 01:38	WG1184313
n-Butylbenzene	U		0.00429	0.0140	1	10/22/2018 01:38	WG1184313
sec-Butylbenzene	U		0.00283	0.0140	1	10/22/2018 01:38	WG1184313
tert-Butylbenzene	U		0.00173	0.00559	1	10/22/2018 01:38	WG1184313
Carbon disulfide	U		0.00454	0.0140	1	10/22/2018 01:38	WG1184313
Carbon tetrachloride	U		0.00121	0.00559	1	10/22/2018 01:38	WG1184313
Chlorobenzene	U		0.000640	0.00279	1	10/22/2018 01:38	WG1184313
Chlorodibromomethane	U		0.000503	0.00279	1	10/22/2018 01:38	WG1184313
Chloroethane	U		0.00121	0.00559	1	10/22/2018 01:38	WG1184313
Chloroform	0.00179	U B J	0.000464	0.00279	1	10/22/2018 01:38	WG1184313
Chloromethane	U		0.00155	0.0140	1	10/22/2018 01:38	WG1184313
2-Chlorotoluene	U		0.00103	0.00279	1	10/22/2018 01:38	WG1184313
4-Chlorotoluene	U		0.00126	0.00559	1	10/22/2018 01:38	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0279	1	10/22/2018 01:38	WG1184313
1,2-Dibromoethane	U		0.000587	0.00279	1	10/22/2018 01:38	WG1184313
Dibromomethane	U		0.00112	0.00559	1	10/22/2018 01:38	WG1184313
1,2-Dichlorobenzene	U		0.00162	0.00559	1	10/22/2018 01:38	WG1184313
1,3-Dichlorobenzene	U		0.00190	0.00559	1	10/22/2018 01:38	WG1184313
1,4-Dichlorobenzene	U		0.00220	0.00559	1	10/22/2018 01:38	WG1184313
Dichlorodifluoromethane	U		0.000914	0.00279	1	10/22/2018 01:38	WG1184313
1,1-Dichloroethane	U		0.000643	0.00279	1	10/22/2018 01:38	WG1184313
1,2-Dichloroethane	U		0.000531	0.00279	1	10/22/2018 01:38	WG1184313
1,1-Dichloroethene	0.00344		0.000559	0.00279	1	10/22/2018 01:38	WG1184313
cis-1,2-Dichloroethene	0.718		0.000771	0.00279	1	10/22/2018 01:38	WG1184313
trans-1,2-Dichloroethene	U		0.00160	0.00559	1	10/22/2018 01:38	WG1184313
1,2-Dichloropropane	U		0.00142	0.00559	1	10/22/2018 01:38	WG1184313
1,1-Dichloropropene	U		0.000782	0.00279	1	10/22/2018 01:38	WG1184313
1,3-Dichloropropane	U		0.00196	0.00559	1	10/22/2018 01:38	WG1184313
cis-1,3-Dichloropropene	U		0.000758	0.00279	1	10/22/2018 01:38	WG1184313
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	10/22/2018 01:38	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00156	0.00559	1	10/22/2018 01:38	WG1184313
2,2-Dichloropropane	U	U J4	0.000886	0.00279	1	10/22/2018 01:38	WG1184313
Di-isopropyl ether	U		0.000391	0.00112	1	10/23/2018 19:16	WG1185140
Ethylbenzene	U		0.000592	0.00279	1	10/22/2018 01:38	WG1184313
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/22/2018 01:38	WG1184313
2-Hexanone	U		0.0112	0.0279	1	10/22/2018 01:38	WG1184313
n-Hexane	U		0.00118	0.00559	1	10/22/2018 01:38	WG1184313
Iodomethane	U		0.00676	0.0140	1	10/22/2018 01:38	WG1184313
Isopropylbenzene	U		0.000965	0.00279	1	10/22/2018 01:38	WG1184313
p-Isopropyltoluene	U		0.00260	0.00559	1	10/22/2018 01:38	WG1184313
2-Butanone (MEK)	0.0198	J J	0.0140	0.0279	1	10/22/2018 01:38	WG1184313
Methylene Chloride	U		0.00742	0.0279	1	10/22/2018 01:38	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	10/22/2018 01:38	WG1184313

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	10/23/2018 19:16	WG1185140
Naphthalene	U		0.00349	0.0140	1	10/22/2018 01:38	WG1184313
n-Propylbenzene	U		0.00132	0.00559	1	10/22/2018 01:38	WG1184313
Styrene	U		0.00305	0.0140	1	10/22/2018 01:38	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000559	0.00279	1	10/22/2018 01:38	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000436	0.00279	1	10/22/2018 01:38	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00279	1	10/22/2018 01:38	WG1184313
Tetrachloroethene	0.697		0.000782	0.00279	1	10/23/2018 19:16	WG1185140
Toluene	U		0.00140	0.00559	1	10/22/2018 01:38	WG1184313
1,2,3-Trichlorobenzene	U		0.000699	0.00279	1	10/22/2018 01:38	WG1184313
1,2,4-Trichlorobenzene	U		0.00539	0.0140	1	10/23/2018 19:16	WG1185140
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/22/2018 01:38	WG1184313
1,1,2-Trichloroethane	U		0.000987	0.00279	1	10/22/2018 01:38	WG1184313
Trichloroethene	0.253		0.000447	0.00112	1	10/23/2018 19:16	WG1185140
Trichlorofluoromethane	U		0.000559	0.00279	1	10/22/2018 01:38	WG1184313
1,2,3-Trichloropropane	U		0.00570	0.0140	1	10/22/2018 01:38	WG1184313
1,2,4-Trimethylbenzene	U		0.00130	0.00559	1	10/22/2018 01:38	WG1184313
1,2,3-Trimethylbenzene	U		0.00129	0.00559	1	10/22/2018 01:38	WG1184313
1,3,5-Trimethylbenzene	U		0.00121	0.00559	1	10/22/2018 01:38	WG1184313
Vinyl acetate	U		0.00393	0.0140	1	10/22/2018 01:38	WG1184313
Vinyl chloride	0.0191		0.000763	0.00279	1	10/22/2018 01:38	WG1184313
Xylenes, Total	U		0.00534	0.00726	1	10/22/2018 01:38	WG1184313
(S) Toluene-d8	*99.9*			*75.0-131*		*10/22/2018 01:38*	WG1184313
(S) Toluene-d8	*124*			*75.0-131*		*10/23/2018 19:16*	WG1185140
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/22/2018 01:38*	WG1184313
(S) Dibromofluoromethane	*95.5*			*65.0-129*		*10/23/2018 19:16*	WG1185140
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/22/2018 01:38*	WG1184313
(S) 4-Bromofluorobenzene	*88.7*			*67.0-138*		*10/23/2018 19:16*	WG1185140

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

SAMPLE RESULTS - 15

L1036155

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.2		1	10/24/2018 10:00	WG1184860

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0152	0.0277	1	10/22/2018 01:58	WG1184313
Acrylonitrile	U		0.00211	0.0139	1	10/22/2018 01:58	WG1184313
Benzene	U		0.000444	0.00111	1	10/23/2018 19:36	WG1185140
Bromobenzene	U		0.00116	0.0139	1	10/22/2018 01:58	WG1184313
Bromodichloromethane	U		0.000874	0.00277	1	10/22/2018 01:58	WG1184313
Bromochloromethane	U		0.00125	0.00554	1	10/22/2018 01:58	WG1184313
Bromoform	U		0.00663	0.0277	1	10/22/2018 01:58	WG1184313
Bromomethane	U		0.00410	0.0139	1	10/22/2018 01:58	WG1184313
n-Butylbenzene	U		0.00426	0.0139	1	10/22/2018 01:58	WG1184313
sec-Butylbenzene	U		0.00281	0.0139	1	10/22/2018 01:58	WG1184313
tert-Butylbenzene	U		0.00172	0.00554	1	10/22/2018 01:58	WG1184313
Carbon disulfide	U		0.00450	0.0139	1	10/22/2018 01:58	WG1184313
Carbon tetrachloride	U		0.00120	0.00554	1	10/22/2018 01:58	WG1184313
Chlorobenzene	U		0.000635	0.00277	1	10/22/2018 01:58	WG1184313
Chlorodibromomethane	U		0.000499	0.00277	1	10/22/2018 01:58	WG1184313
Chloroethane	U		0.00120	0.00554	1	10/22/2018 01:58	WG1184313
Chloroform	0.00189 U	B J	0.000460	0.00277	1	10/22/2018 01:58	WG1184313
Chloromethane	U		0.00154	0.0139	1	10/22/2018 01:58	WG1184313
2-Chlorotoluene	U		0.00102	0.00277	1	10/22/2018 01:58	WG1184313
4-Chlorotoluene	U		0.00125	0.00554	1	10/22/2018 01:58	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00566	0.0277	1	10/22/2018 01:58	WG1184313
1,2-Dibromoethane	U		0.000582	0.00277	1	10/22/2018 01:58	WG1184313
Dibromomethane	U		0.00111	0.00554	1	10/22/2018 01:58	WG1184313
1,2-Dichlorobenzene	U		0.00161	0.00554	1	10/22/2018 01:58	WG1184313
1,3-Dichlorobenzene	U		0.00189	0.00554	1	10/22/2018 01:58	WG1184313
1,4-Dichlorobenzene	U		0.00218	0.00554	1	10/22/2018 01:58	WG1184313
Dichlorodifluoromethane	U		0.000907	0.00277	1	10/22/2018 01:58	WG1184313
1,1-Dichloroethane	U		0.000638	0.00277	1	10/22/2018 01:58	WG1184313
1,2-Dichloroethane	U		0.000527	0.00277	1	10/22/2018 01:58	WG1184313
1,1-Dichloroethene	U		0.000554	0.00277	1	10/22/2018 01:58	WG1184313
cis-1,2-Dichloroethene	0.0185		0.000765	0.00277	1	10/22/2018 01:58	WG1184313
trans-1,2-Dichloroethene	U		0.00159	0.00554	1	10/22/2018 01:58	WG1184313
1,2-Dichloropropane	U		0.00141	0.00554	1	10/22/2018 01:58	WG1184313
1,1-Dichloropropene	U		0.000776	0.00277	1	10/22/2018 01:58	WG1184313
1,3-Dichloropropane	U		0.00194	0.00554	1	10/22/2018 01:58	WG1184313
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	10/22/2018 01:58	WG1184313
trans-1,3-Dichloropropene	U		0.00170	0.00554	1	10/22/2018 01:58	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00155	0.00554	1	10/22/2018 01:58	WG1184313
2,2-Dichloropropane	U U	J4	0.000879	0.00277	1	10/22/2018 01:58	WG1184313
Di-isopropyl ether	U		0.000388	0.00111	1	10/23/2018 19:36	WG1185140
Ethylbenzene	U		0.000588	0.00277	1	10/22/2018 01:58	WG1184313
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	10/22/2018 01:58	WG1184313
2-Hexanone	U		0.0111	0.0277	1	10/22/2018 01:58	WG1184313
n-Hexane	U		0.00118	0.00554	1	10/22/2018 01:58	WG1184313
Iodomethane	U		0.00671	0.0139	1	10/22/2018 01:58	WG1184313
Isopropylbenzene	U		0.000957	0.00277	1	10/22/2018 01:58	WG1184313
p-Isopropyltoluene	U		0.00258	0.00554	1	10/22/2018 01:58	WG1184313
2-Butanone (MEK)	0.0209 J	J	0.0139	0.0277	1	10/22/2018 01:58	WG1184313
Methylene Chloride	U		0.00736	0.0277	1	10/22/2018 01:58	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	10/22/2018 01:58	WG1184313

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	10/23/2018 19:36	WG1185140
Naphthalene	U		0.00346	0.0139	1	10/22/2018 01:58	WG1184313
n-Propylbenzene	U		0.00131	0.00554	1	10/22/2018 01:58	WG1184313
Styrene	U		0.00303	0.0139	1	10/22/2018 01:58	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000554	0.00277	1	10/22/2018 01:58	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	10/22/2018 01:58	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000749	0.00277	1	10/22/2018 01:58	WG1184313
Tetrachloroethene	0.0785		0.000776	0.00277	1	10/23/2018 19:36	WG1185140
Toluene	U		0.00139	0.00554	1	10/22/2018 01:58	WG1184313
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	10/22/2018 01:58	WG1184313
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	10/23/2018 19:36	WG1185140
1,1,1-Trichloroethane	U		0.000305	0.00277	1	10/22/2018 01:58	WG1184313
1,1,2-Trichloroethane	0.00189 J	J	0.000979	0.00277	1	10/22/2018 01:58	WG1184313
Trichloroethene	0.00667		0.000444	0.00111	1	10/23/2018 19:36	WG1185140
Trichlorofluoromethane	U		0.000554	0.00277	1	10/22/2018 01:58	WG1184313
1,2,3-Trichloropropane	U		0.00566	0.0139	1	10/22/2018 01:58	WG1184313
1,2,4-Trimethylbenzene	U		0.00129	0.00554	1	10/22/2018 01:58	WG1184313
1,2,3-Trimethylbenzene	U		0.00128	0.00554	1	10/22/2018 01:58	WG1184313
1,3,5-Trimethylbenzene	U		0.00120	0.00554	1	10/22/2018 01:58	WG1184313
Vinyl acetate	U		0.00390	0.0139	1	10/22/2018 01:58	WG1184313
Vinyl chloride	U		0.000757	0.00277	1	10/22/2018 01:58	WG1184313
Xylenes, Total	U		0.00530	0.00721	1	10/22/2018 01:58	WG1184313
(S) Toluene-d8	*99.1*			*75.0-131*		*10/22/2018 01:58*	WG1184313
(S) Toluene-d8	*124*			*75.0-131*		*10/23/2018 19:36*	WG1185140
(S) Dibromofluoromethane	*111*			*65.0-129*		*10/22/2018 01:58*	WG1184313
(S) Dibromofluoromethane	*95.4*			*65.0-129*		*10/23/2018 19:36*	WG1185140
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/22/2018 01:58*	WG1184313
(S) 4-Bromofluorobenzene	*88.5*			*67.0-138*		*10/23/2018 19:36*	WG1185140

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

B-260-8

Collected date/time: 10/17/18 10:37

SAMPLE RESULTS - 16

L1036155

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.1		1	10/24/2018 10:00	WG1184860

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0154	0.0281	1	10/22/2018 02:18	WG1184313
Acrylonitrile	U		0.00213	0.0140	1	10/22/2018 02:18	WG1184313
Benzene	U	UJ	0.000449	0.00112	1	10/23/2018 19:57	WG1185140
Bromobenzene	U		0.00118	0.0140	1	10/22/2018 02:18	WG1184313
Bromodichloromethane	U		0.000884	0.00281	1	10/22/2018 02:18	WG1184313
Bromochloromethane	U		0.00127	0.00561	1	10/22/2018 02:18	WG1184313
Bromoform	U		0.00671	0.0281	1	10/22/2018 02:18	WG1184313
Bromomethane	U		0.00415	0.0140	1	10/22/2018 02:18	WG1184313
n-Butylbenzene	U		0.00431	0.0140	1	10/22/2018 02:18	WG1184313
sec-Butylbenzene	U		0.00284	0.0140	1	10/22/2018 02:18	WG1184313
tert-Butylbenzene	U		0.00174	0.00561	1	10/22/2018 02:18	WG1184313
Carbon disulfide	U		0.00456	0.0140	1	10/22/2018 02:18	WG1184313
Carbon tetrachloride	U		0.00121	0.00561	1	10/22/2018 02:18	WG1184313
Chlorobenzene	U		0.000643	0.00281	1	10/22/2018 02:18	WG1184313
Chlorodibromomethane	U		0.000505	0.00281	1	10/22/2018 02:18	WG1184313
Chloroethane	U		0.00121	0.00561	1	10/22/2018 02:18	WG1184313
Chloroform	0.00206 U	B J	0.000466	0.00281	1	10/22/2018 02:18	WG1184313
Chloromethane	U		0.00156	0.0140	1	10/22/2018 02:18	WG1184313
2-Chlorotoluene	U		0.00103	0.00281	1	10/22/2018 02:18	WG1184313
4-Chlorotoluene	U		0.00127	0.00561	1	10/22/2018 02:18	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00572	0.0281	1	10/22/2018 02:18	WG1184313
1,2-Dibromoethane	U		0.000589	0.00281	1	10/22/2018 02:18	WG1184313
Dibromomethane	U		0.00112	0.00561	1	10/22/2018 02:18	WG1184313
1,2-Dichlorobenzene	U		0.00163	0.00561	1	10/22/2018 02:18	WG1184313
1,3-Dichlorobenzene	U		0.00191	0.00561	1	10/22/2018 02:18	WG1184313
1,4-Dichlorobenzene	U		0.00221	0.00561	1	10/22/2018 02:18	WG1184313
Dichlorodifluoromethane	U		0.000918	0.00281	1	10/22/2018 02:18	WG1184313
1,1-Dichloroethane	U		0.000645	0.00281	1	10/22/2018 02:18	WG1184313
1,2-Dichloroethane	U		0.000533	0.00281	1	10/22/2018 02:18	WG1184313
1,1-Dichloroethene	0.000732 J	J	0.000561	0.00281	1	10/22/2018 02:18	WG1184313
cis-1,2-Dichloroethene	0.142		0.000774	0.00281	1	10/22/2018 02:18	WG1184313
trans-1,2-Dichloroethene	0.00182 J	J	0.00160	0.00561	1	10/22/2018 02:18	WG1184313
1,2-Dichloropropane	U		0.00143	0.00561	1	10/22/2018 02:18	WG1184313
1,1-Dichloropropene	U		0.000786	0.00281	1	10/22/2018 02:18	WG1184313
1,3-Dichloropropane	U		0.00196	0.00561	1	10/22/2018 02:18	WG1184313
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	10/22/2018 02:18	WG1184313
trans-1,3-Dichloropropene	U		0.00172	0.00561	1	10/22/2018 02:18	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00157	0.00561	1	10/22/2018 02:18	WG1184313
2,2-Dichloropropane	U	U J4	0.000890	0.00281	1	10/22/2018 02:18	WG1184313
Di-isopropyl ether	U	UJ	0.000393	0.00112	1	10/23/2018 19:57	WG1185140
Ethylbenzene	U		0.000595	0.00281	1	10/22/2018 02:18	WG1184313
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 02:18	WG1184313
2-Hexanone	U		0.0112	0.0281	1	10/22/2018 02:18	WG1184313
n-Hexane	U		0.00119	0.00561	1	10/22/2018 02:18	WG1184313
Iodomethane	U		0.00679	0.0140	1	10/22/2018 02:18	WG1184313
Isopropylbenzene	U		0.000968	0.00281	1	10/22/2018 02:18	WG1184313
p-Isopropyltoluene	U		0.00261	0.00561	1	10/22/2018 02:18	WG1184313
2-Butanone (MEK)	0.0348		0.0140	0.0281	1	10/22/2018 02:18	WG1184313
Methylene Chloride	U		0.00745	0.0281	1	10/22/2018 02:18	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	10/22/2018 02:18	WG1184313

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B-260-8

Collected date/time: 10/17/18 10:37

SAMPLE RESULTS - 16

L1036155

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ		0.000331	0.00112	1	10/23/2018 19:57	WG1185140
Naphthalene	U		0.00350	0.0140	1	10/22/2018 02:18	WG1184313
n-Propylbenzene	U		0.00132	0.00561	1	10/22/2018 02:18	WG1184313
Styrene	U		0.00306	0.0140	1	10/22/2018 02:18	WG1184313
1,1,1,2-Tetrachloroethane	0.000647 J	J	0.000561	0.00281	1	10/22/2018 02:18	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	10/22/2018 02:18	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000757	0.00281	1	10/22/2018 02:18	WG1184313
Tetrachloroethene	0.0294 J+	V3	0.000786	0.00281	1	10/23/2018 19:57	WG1185140
Toluene	0.00153 J	J	0.00140	0.00561	1	10/22/2018 02:18	WG1184313
1,2,3-Trichlorobenzene	U		0.000701	0.00281	1	10/22/2018 02:18	WG1184313
1,2,4-Trichlorobenzene	U UJ		0.00541	0.0140	1	10/23/2018 19:57	WG1185140
1,1,1-Trichloroethane	U		0.000309	0.00281	1	10/22/2018 02:18	WG1184313
1,1,2-Trichloroethane	U		0.000991	0.00281	1	10/22/2018 02:18	WG1184313
Trichloroethene	0.00771 J		0.000449	0.00112	1	10/23/2018 19:57	WG1185140
Trichlorofluoromethane	U		0.000561	0.00281	1	10/22/2018 02:18	WG1184313
1,2,3-Trichloropropane	U		0.00572	0.0140	1	10/22/2018 02:18	WG1184313
1,2,4-Trimethylbenzene	0.00132 J	J	0.00130	0.00561	1	10/22/2018 02:18	WG1184313
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	10/22/2018 02:18	WG1184313
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	10/22/2018 02:18	WG1184313
Vinyl acetate	U		0.00395	0.0140	1	10/22/2018 02:18	WG1184313
Vinyl chloride	0.00269 J	J	0.000766	0.00281	1	10/22/2018 02:18	WG1184313
Xylenes, Total	U		0.00536	0.00729	1	10/22/2018 02:18	WG1184313
(S) Toluene-d8	*101*			*75.0-131*		*10/22/2018 02:18*	WG1184313
(S) Toluene-d8	*131*			*75.0-131*		*10/23/2018 19:57*	WG1185140
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/22/2018 02:18*	WG1184313
(S) Dibromofluoromethane	*86.1*			*65.0-129*		*10/23/2018 19:57*	WG1185140
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/22/2018 02:18*	WG1184313
(S) 4-Bromofluorobenzene	*58.1*	J2		*67.0-138*		*10/23/2018 19:57*	WG1185140

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	10/24/2018 10:00	WG1184860

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0287	1	10/22/2018 02:38	WG1184313
Acrylonitrile	U		0.00218	0.0143	1	10/22/2018 02:38	WG1184313
Benzene	U		0.000459	0.00115	1	10/23/2018 20:17	WG1185140
Bromobenzene	U		0.00120	0.0143	1	10/22/2018 02:38	WG1184313
Bromodichloromethane	U		0.000904	0.00287	1	10/22/2018 02:38	WG1184313
Bromochloromethane	U		0.00130	0.00574	1	10/22/2018 02:38	WG1184313
Bromoform	U		0.00686	0.0287	1	10/22/2018 02:38	WG1184313
Bromomethane	U		0.00425	0.0143	1	10/22/2018 02:38	WG1184313
n-Butylbenzene	U		0.00441	0.0143	1	10/22/2018 02:38	WG1184313
sec-Butylbenzene	U		0.00290	0.0143	1	10/22/2018 02:38	WG1184313
tert-Butylbenzene	U		0.00178	0.00574	1	10/22/2018 02:38	WG1184313
Carbon disulfide	U		0.00466	0.0143	1	10/22/2018 02:38	WG1184313
Carbon tetrachloride	U		0.00124	0.00574	1	10/22/2018 02:38	WG1184313
Chlorobenzene	U		0.000658	0.00287	1	10/22/2018 02:38	WG1184313
Chlorodibromomethane	U		0.000516	0.00287	1	10/22/2018 02:38	WG1184313
Chloroethane	U		0.00124	0.00574	1	10/22/2018 02:38	WG1184313
Chloroform	0.00159 U	B J	0.000476	0.00287	1	10/22/2018 02:38	WG1184313
Chloromethane	U		0.00160	0.0143	1	10/22/2018 02:38	WG1184313
2-Chlorotoluene	U		0.00106	0.00287	1	10/22/2018 02:38	WG1184313
4-Chlorotoluene	U		0.00130	0.00574	1	10/22/2018 02:38	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00585	0.0287	1	10/22/2018 02:38	WG1184313
1,2-Dibromoethane	U		0.000602	0.00287	1	10/22/2018 02:38	WG1184313
Dibromomethane	U		0.00115	0.00574	1	10/22/2018 02:38	WG1184313
1,2-Dichlorobenzene	U		0.00166	0.00574	1	10/22/2018 02:38	WG1184313
1,3-Dichlorobenzene	U		0.00195	0.00574	1	10/22/2018 02:38	WG1184313
1,4-Dichlorobenzene	U		0.00226	0.00574	1	10/22/2018 02:38	WG1184313
Dichlorodifluoromethane	U		0.000939	0.00287	1	10/22/2018 02:38	WG1184313
1,1-Dichloroethane	U		0.000660	0.00287	1	10/22/2018 02:38	WG1184313
1,2-Dichloroethane	U		0.000545	0.00287	1	10/22/2018 02:38	WG1184313
1,1-Dichloroethene	0.00166 J	J	0.000574	0.00287	1	10/22/2018 02:38	WG1184313
cis-1,2-Dichloroethene	0.568		0.000792	0.00287	1	10/22/2018 02:38	WG1184313
trans-1,2-Dichloroethene	0.00241 J	J	0.00164	0.00574	1	10/22/2018 02:38	WG1184313
1,2-Dichloropropane	U		0.00146	0.00574	1	10/22/2018 02:38	WG1184313
1,1-Dichloropropene	U		0.000803	0.00287	1	10/22/2018 02:38	WG1184313
1,3-Dichloropropane	U		0.00201	0.00574	1	10/22/2018 02:38	WG1184313
cis-1,3-Dichloropropene	U		0.000778	0.00287	1	10/22/2018 02:38	WG1184313
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	10/22/2018 02:38	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	10/22/2018 02:38	WG1184313
2,2-Dichloropropane	U U	J4	0.000910	0.00287	1	10/22/2018 02:38	WG1184313
Di-isopropyl ether	U		0.000402	0.00115	1	10/23/2018 20:17	WG1185140
Ethylbenzene	U		0.000608	0.00287	1	10/22/2018 02:38	WG1184313
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	10/22/2018 02:38	WG1184313
2-Hexanone	U		0.0115	0.0287	1	10/22/2018 02:38	WG1184313
n-Hexane	U		0.00122	0.00574	1	10/22/2018 02:38	WG1184313
Iodomethane	U		0.00694	0.0143	1	10/22/2018 02:38	WG1184313
Isopropylbenzene	U		0.000990	0.00287	1	10/22/2018 02:38	WG1184313
p-Isopropyltoluene	U		0.00267	0.00574	1	10/22/2018 02:38	WG1184313
2-Butanone (MEK)	0.0241 J	J	0.0143	0.0287	1	10/22/2018 02:38	WG1184313
Methylene Chloride	U		0.00762	0.0287	1	10/22/2018 02:38	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	10/22/2018 02:38	WG1184313

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000339	0.00115	1	10/23/2018 20:17	WG1185140
Naphthalene	U		0.00358	0.0143	1	10/22/2018 02:38	WG1184313
n-Propylbenzene	U		0.00135	0.00574	1	10/22/2018 02:38	WG1184313
Styrene	U		0.00313	0.0143	1	10/22/2018 02:38	WG1184313
1,1,1,2-Tetrachloroethane	0.000624 J	J	0.000574	0.00287	1	10/22/2018 02:38	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	10/22/2018 02:38	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000775	0.00287	1	10/22/2018 02:38	WG1184313
Tetrachloroethene	0.0106		0.000803	0.00287	1	10/23/2018 20:17	WG1185140
Toluene	U		0.00143	0.00574	1	10/22/2018 02:38	WG1184313
1,2,3-Trichlorobenzene	U		0.000717	0.00287	1	10/22/2018 02:38	WG1184313
1,2,4-Trichlorobenzene	U		0.00553	0.0143	1	10/23/2018 20:17	WG1185140
1,1,1-Trichloroethane	U		0.000316	0.00287	1	10/22/2018 02:38	WG1184313
1,1,2-Trichloroethane	U		0.00101	0.00287	1	10/22/2018 02:38	WG1184313
Trichloroethene	0.00211		0.000459	0.00115	1	10/23/2018 20:17	WG1185140
Trichlorofluoromethane	U		0.000574	0.00287	1	10/22/2018 02:38	WG1184313
1,2,3-Trichloropropane	U		0.00585	0.0143	1	10/22/2018 02:38	WG1184313
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	10/22/2018 02:38	WG1184313
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	10/22/2018 02:38	WG1184313
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	10/22/2018 02:38	WG1184313
Vinyl acetate	U		0.00404	0.0143	1	10/22/2018 02:38	WG1184313
Vinyl chloride	0.0103		0.000784	0.00287	1	10/22/2018 02:38	WG1184313
Xylenes, Total	U		0.00549	0.00746	1	10/22/2018 02:38	WG1184313
(S) Toluene-d8	*101*			*75.0-131*		*10/22/2018 02:38*	WG1184313
(S) Toluene-d8	*126*			*75.0-131*		*10/23/2018 20:17*	WG1185140
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/22/2018 02:38*	WG1184313
(S) Dibromofluoromethane	*94.2*			*65.0-129*		*10/23/2018 20:17*	WG1185140
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/22/2018 02:38*	WG1184313
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*10/23/2018 20:17*	WG1185140

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.1		1	10/24/2018 10:00	WG1184860

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0159	0.0290	1	10/22/2018 02:58	WG1184313
Acrylonitrile	U		0.00221	0.0145	1	10/22/2018 02:58	WG1184313
Benzene	U		0.00465	0.0116	10	10/23/2018 21:18	WG1185140
Bromobenzene	U		0.00122	0.0145	1	10/22/2018 02:58	WG1184313
Bromodichloromethane	U		0.000915	0.00290	1	10/22/2018 02:58	WG1184313
Bromochloromethane	U		0.00131	0.00581	1	10/22/2018 02:58	WG1184313
Bromoform	U		0.00694	0.0290	1	10/22/2018 02:58	WG1184313
Bromomethane	U		0.00430	0.0145	1	10/22/2018 02:58	WG1184313
n-Butylbenzene	U		0.00446	0.0145	1	10/22/2018 02:58	WG1184313
sec-Butylbenzene	U		0.00294	0.0145	1	10/22/2018 02:58	WG1184313
tert-Butylbenzene	U		0.00180	0.00581	1	10/22/2018 02:58	WG1184313
Carbon disulfide	U		0.00471	0.0145	1	10/22/2018 02:58	WG1184313
Carbon tetrachloride	U		0.00125	0.00581	1	10/22/2018 02:58	WG1184313
Chlorobenzene	U		0.000665	0.00290	1	10/22/2018 02:58	WG1184313
Chlorodibromomethane	U		0.000523	0.00290	1	10/22/2018 02:58	WG1184313
Chloroethane	U		0.00125	0.00581	1	10/22/2018 02:58	WG1184313
Chloroform	0.00183 U	B J	0.000482	0.00290	1	10/22/2018 02:58	WG1184313
Chloromethane	U		0.00161	0.0145	1	10/22/2018 02:58	WG1184313
2-Chlorotoluene	U		0.00107	0.00290	1	10/22/2018 02:58	WG1184313
4-Chlorotoluene	U		0.00131	0.00581	1	10/22/2018 02:58	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00592	0.0290	1	10/22/2018 02:58	WG1184313
1,2-Dibromoethane	U		0.000610	0.00290	1	10/22/2018 02:58	WG1184313
Dibromomethane	U		0.00116	0.00581	1	10/22/2018 02:58	WG1184313
1,2-Dichlorobenzene	U		0.00168	0.00581	1	10/22/2018 02:58	WG1184313
1,3-Dichlorobenzene	U		0.00197	0.00581	1	10/22/2018 02:58	WG1184313
1,4-Dichlorobenzene	U		0.00229	0.00581	1	10/22/2018 02:58	WG1184313
Dichlorodifluoromethane	U		0.000950	0.00290	1	10/22/2018 02:58	WG1184313
1,1-Dichloroethane	U		0.000668	0.00290	1	10/22/2018 02:58	WG1184313
1,2-Dichloroethane	U		0.000552	0.00290	1	10/22/2018 02:58	WG1184313
1,1-Dichloroethene	0.00427		0.000581	0.00290	1	10/22/2018 02:58	WG1184313
cis-1,2-Dichloroethene	0.414		0.000801	0.00290	1	10/22/2018 02:58	WG1184313
trans-1,2-Dichloroethene	0.00349 J	J	0.00166	0.00581	1	10/22/2018 02:58	WG1184313
1,2-Dichloropropane	U		0.00147	0.00581	1	10/22/2018 02:58	WG1184313
1,1-Dichloropropene	U		0.000813	0.00290	1	10/22/2018 02:58	WG1184313
1,3-Dichloropropane	U		0.00203	0.00581	1	10/22/2018 02:58	WG1184313
cis-1,3-Dichloropropene	0.000791 J	J	0.000787	0.00290	1	10/22/2018 02:58	WG1184313
trans-1,3-Dichloropropene	U		0.00178	0.00581	1	10/22/2018 02:58	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00163	0.00581	1	10/22/2018 02:58	WG1184313
2,2-Dichloropropane	U U	J4	0.000921	0.00290	1	10/22/2018 02:58	WG1184313
Di-isopropyl ether	U		0.00406	0.0116	10	10/23/2018 21:18	WG1185140
Ethylbenzene	U		0.000615	0.00290	1	10/22/2018 02:58	WG1184313
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/22/2018 02:58	WG1184313
2-Hexanone	U		0.0116	0.0290	1	10/22/2018 02:58	WG1184313
n-Hexane	0.00587		0.00123	0.00581	1	10/22/2018 02:58	WG1184313
Iodomethane	U		0.00703	0.0145	1	10/22/2018 02:58	WG1184313
Isopropylbenzene	U		0.00100	0.00290	1	10/22/2018 02:58	WG1184313
p-Isopropyltoluene	U		0.00271	0.00581	1	10/22/2018 02:58	WG1184313
2-Butanone (MEK)	0.0288 J	J	0.0145	0.0290	1	10/22/2018 02:58	WG1184313
Methylene Chloride	U		0.00771	0.0290	1	10/22/2018 02:58	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/22/2018 02:58	WG1184313

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00343	0.0116	10	10/23/2018 21:18	WG1185140
Naphthalene	U		0.00362	0.0145	1	10/22/2018 02:58	WG1184313
n-Propylbenzene	U		0.00137	0.00581	1	10/22/2018 02:58	WG1184313
Styrene	U		0.00317	0.0145	1	10/22/2018 02:58	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000581	0.00290	1	10/22/2018 02:58	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000453	0.00290	1	10/22/2018 02:58	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000784	0.00290	1	10/22/2018 02:58	WG1184313
Tetrachloroethene	9.92		0.0650	0.232	80	10/25/2018 00:40	WG1185815
Toluene	0.00165 J	J	0.00145	0.00581	1	10/22/2018 02:58	WG1184313
1,2,3-Trichlorobenzene	U		0.000726	0.00290	1	10/22/2018 02:58	WG1184313
1,2,4-Trichlorobenzene	U		0.0560	0.145	10	10/23/2018 21:18	WG1185140
1,1,1-Trichloroethane	U		0.000319	0.00290	1	10/22/2018 02:58	WG1184313
1,1,2-Trichloroethane	U		0.00103	0.00290	1	10/22/2018 02:58	WG1184313
Trichloroethene	1.98		0.00465	0.0116	10	10/23/2018 21:18	WG1185140
Trichlorofluoromethane	U		0.000581	0.00290	1	10/22/2018 02:58	WG1184313
1,2,3-Trichloropropane	U		0.00592	0.0145	1	10/22/2018 02:58	WG1184313
1,2,4-Trimethylbenzene	U		0.00135	0.00581	1	10/22/2018 02:58	WG1184313
1,2,3-Trimethylbenzene	U		0.00134	0.00581	1	10/22/2018 02:58	WG1184313
1,3,5-Trimethylbenzene	U		0.00125	0.00581	1	10/22/2018 02:58	WG1184313
Vinyl acetate	U		0.00409	0.0145	1	10/22/2018 02:58	WG1184313
Vinyl chloride	0.0101		0.000793	0.00290	1	10/22/2018 02:58	WG1184313
Xylenes, Total	U		0.00555	0.00755	1	10/22/2018 02:58	WG1184313
(S) Toluene-d8	*101*			*75.0-131*		*10/22/2018 02:58*	WG1184313
(S) Toluene-d8	*120*			*75.0-131*		*10/23/2018 21:18*	WG1185140
(S) Toluene-d8	*104*			*75.0-131*		*10/25/2018 00:40*	WG1185815
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/22/2018 02:58*	WG1184313
(S) Dibromofluoromethane	*102*			*65.0-129*		*10/23/2018 21:18*	WG1185140
(S) Dibromofluoromethane	*101*			*65.0-129*		*10/25/2018 00:40*	WG1185815
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/22/2018 02:58*	WG1184313
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*10/23/2018 21:18*	WG1185140
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/25/2018 00:40*	WG1185815

Sample Narrative:

JC 11/14/18

L1036155-18 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-18 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.5		1	10/24/2018 10:00	WG1184860

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0151	0.0276	1	10/22/2018 03:18	WG1184313
Acrylonitrile	U		0.00210	0.0138	1	10/22/2018 03:18	WG1184313
Benzene	U		0.00442	0.0111	10	10/23/2018 21:38	WG1185140
Bromobenzene	U		0.00116	0.0138	1	10/22/2018 03:18	WG1184313
Bromodichloromethane	U		0.000871	0.00276	1	10/22/2018 03:18	WG1184313
Bromochloromethane	U		0.00125	0.00553	1	10/22/2018 03:18	WG1184313
Bromoform	U		0.00661	0.0276	1	10/22/2018 03:18	WG1184313
Bromomethane	U		0.00409	0.0138	1	10/22/2018 03:18	WG1184313
n-Butylbenzene	U		0.00424	0.0138	1	10/22/2018 03:18	WG1184313
sec-Butylbenzene	U		0.00280	0.0138	1	10/22/2018 03:18	WG1184313
tert-Butylbenzene	U		0.00171	0.00553	1	10/22/2018 03:18	WG1184313
Carbon disulfide	U		0.00449	0.0138	1	10/22/2018 03:18	WG1184313
Carbon tetrachloride	U		0.00119	0.00553	1	10/22/2018 03:18	WG1184313
Chlorobenzene	U		0.000633	0.00276	1	10/22/2018 03:18	WG1184313
Chlorodibromomethane	U		0.000497	0.00276	1	10/22/2018 03:18	WG1184313
Chloroethane	U		0.00119	0.00553	1	10/22/2018 03:18	WG1184313
Chloroform	0.00166	U B J	0.000459	0.00276	1	10/22/2018 03:18	WG1184313
Chloromethane	U		0.00154	0.0138	1	10/22/2018 03:18	WG1184313
2-Chlorotoluene	U		0.00102	0.00276	1	10/22/2018 03:18	WG1184313
4-Chlorotoluene	U		0.00125	0.00553	1	10/22/2018 03:18	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00564	0.0276	1	10/22/2018 03:18	WG1184313
1,2-Dibromoethane	U		0.000580	0.00276	1	10/22/2018 03:18	WG1184313
Dibromomethane	U		0.00111	0.00553	1	10/22/2018 03:18	WG1184313
1,2-Dichlorobenzene	U		0.00160	0.00553	1	10/22/2018 03:18	WG1184313
1,3-Dichlorobenzene	U		0.00188	0.00553	1	10/22/2018 03:18	WG1184313
1,4-Dichlorobenzene	U		0.00218	0.00553	1	10/22/2018 03:18	WG1184313
Dichlorodifluoromethane	U		0.000904	0.00276	1	10/22/2018 03:18	WG1184313
1,1-Dichloroethane	U		0.000635	0.00276	1	10/22/2018 03:18	WG1184313
1,2-Dichloroethane	U		0.000525	0.00276	1	10/22/2018 03:18	WG1184313
1,1-Dichloroethene	0.00252	J J	0.000553	0.00276	1	10/22/2018 03:18	WG1184313
cis-1,2-Dichloroethene	0.588		0.000763	0.00276	1	10/22/2018 03:18	WG1184313
trans-1,2-Dichloroethene	U		0.00158	0.00553	1	10/22/2018 03:18	WG1184313
1,2-Dichloropropane	U		0.00140	0.00553	1	10/22/2018 03:18	WG1184313
1,1-Dichloropropene	U		0.000774	0.00276	1	10/22/2018 03:18	WG1184313
1,3-Dichloropropane	U		0.00193	0.00553	1	10/22/2018 03:18	WG1184313
cis-1,3-Dichloropropene	U		0.000749	0.00276	1	10/22/2018 03:18	WG1184313
trans-1,3-Dichloropropene	U		0.00169	0.00553	1	10/22/2018 03:18	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00155	0.00553	1	10/22/2018 03:18	WG1184313
2,2-Dichloropropane	U	U J4	0.000876	0.00276	1	10/22/2018 03:18	WG1184313
Di-isopropyl ether	U		0.00387	0.0111	10	10/23/2018 21:38	WG1185140
Ethylbenzene	U		0.000586	0.00276	1	10/22/2018 03:18	WG1184313
Hexachloro-1,3-butadiene	U		0.0140	0.0276	1	10/22/2018 03:18	WG1184313
2-Hexanone	U		0.0111	0.0276	1	10/22/2018 03:18	WG1184313
n-Hexane	U		0.00117	0.00553	1	10/22/2018 03:18	WG1184313
Iodomethane	U		0.00669	0.0138	1	10/22/2018 03:18	WG1184313
Isopropylbenzene	U		0.000954	0.00276	1	10/22/2018 03:18	WG1184313
p-Isopropyltoluene	U		0.00258	0.00553	1	10/22/2018 03:18	WG1184313
2-Butanone (MEK)	0.0234	J J	0.0138	0.0276	1	10/22/2018 03:18	WG1184313
Methylene Chloride	U		0.00734	0.0276	1	10/22/2018 03:18	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0276	1	10/22/2018 03:18	WG1184313

JC 11/14/18

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.00326	0.0111	10	10/23/2018 21:38	WG1185140
Naphthalene	U		0.00345	0.0138	1	10/22/2018 03:18	WG1184313
n-Propylbenzene	U		0.00130	0.00553	1	10/22/2018 03:18	WG1184313
Styrene	U		0.00302	0.0138	1	10/22/2018 03:18	WG1184313
1,1,1,2-Tetrachloroethane	0.000619 J	J	0.000553	0.00276	1	10/22/2018 03:18	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000431	0.00276	1	10/22/2018 03:18	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000746	0.00276	1	10/22/2018 03:18	WG1184313
Tetrachloroethene	8.23		0.0619	0.221	80	10/25/2018 00:59	WG1185815
Toluene	U		0.00138	0.00553	1	10/22/2018 03:18	WG1184313
1,2,3-Trichlorobenzene	U		0.000691	0.00276	1	10/22/2018 03:18	WG1184313
1,2,4-Trichlorobenzene	U		0.0533	0.138	10	10/23/2018 21:38	WG1185140
1,1,1-Trichloroethane	U		0.000304	0.00276	1	10/22/2018 03:18	WG1184313
1,1,2-Trichloroethane	U		0.000976	0.00276	1	10/22/2018 03:18	WG1184313
Trichloroethene	1.38		0.00442	0.0111	10	10/23/2018 21:38	WG1185140
Trichlorofluoromethane	U		0.000553	0.00276	1	10/22/2018 03:18	WG1184313
1,2,3-Trichloropropane	U		0.00564	0.0138	1	10/22/2018 03:18	WG1184313
1,2,4-Trimethylbenzene	U		0.00128	0.00553	1	10/22/2018 03:18	WG1184313
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	10/22/2018 03:18	WG1184313
1,3,5-Trimethylbenzene	U		0.00119	0.00553	1	10/22/2018 03:18	WG1184313
Vinyl acetate	U		0.00389	0.0138	1	10/22/2018 03:18	WG1184313
Vinyl chloride	0.00167 J	J	0.000755	0.00276	1	10/22/2018 03:18	WG1184313
Xylenes, Total	U		0.00528	0.00718	1	10/22/2018 03:18	WG1184313
(S) Toluene-d8	*98.0*			*75.0-131*		*10/22/2018 03:18*	WG1184313
(S) Toluene-d8	*117*			*75.0-131*		*10/23/2018 21:38*	WG1185140
(S) Toluene-d8	*103*			*75.0-131*		*10/25/2018 00:59*	WG1185815
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/22/2018 03:18*	WG1184313
(S) Dibromofluoromethane	*98.4*			*65.0-129*		*10/23/2018 21:38*	WG1185140
(S) Dibromofluoromethane	*98.4*			*65.0-129*		*10/25/2018 00:59*	WG1185815
(S) 4-Bromofluorobenzene	*117*			*67.0-138*		*10/22/2018 03:18*	WG1184313
(S) 4-Bromofluorobenzene	*97.5*			*67.0-138*		*10/23/2018 21:38*	WG1185140
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/25/2018 00:59*	WG1185815

Sample Narrative:

L1036155-19 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-19 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.5		1	10/24/2018 10:00	WG1184860

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0286	1	10/22/2018 03:38	WG1184313
Acrylonitrile	U		0.00217	0.0143	1	10/22/2018 03:38	WG1184313
Benzene	U		0.000457	0.00114	1	10/23/2018 20:37	WG1185140
Bromobenzene	U		0.00120	0.0143	1	10/22/2018 03:38	WG1184313
Bromodichloromethane	U		0.000900	0.00286	1	10/22/2018 03:38	WG1184313
Bromochloromethane	U		0.00129	0.00571	1	10/22/2018 03:38	WG1184313
Bromoform	U		0.00683	0.0286	1	10/22/2018 03:38	WG1184313
Bromomethane	U		0.00423	0.0143	1	10/22/2018 03:38	WG1184313
n-Butylbenzene	U		0.00439	0.0143	1	10/22/2018 03:38	WG1184313
sec-Butylbenzene	U		0.00289	0.0143	1	10/22/2018 03:38	WG1184313
tert-Butylbenzene	U		0.00177	0.00571	1	10/22/2018 03:38	WG1184313
Carbon disulfide	U		0.00464	0.0143	1	10/22/2018 03:38	WG1184313
Carbon tetrachloride	U		0.00123	0.00571	1	10/22/2018 03:38	WG1184313
Chlorobenzene	U		0.000655	0.00286	1	10/22/2018 03:38	WG1184313
Chlorodibromomethane	U		0.000514	0.00286	1	10/22/2018 03:38	WG1184313
Chloroethane	U		0.00123	0.00571	1	10/22/2018 03:38	WG1184313
Chloroform	0.00165 U	B J	0.000474	0.00286	1	10/22/2018 03:38	WG1184313
Chloromethane	U		0.00159	0.0143	1	10/22/2018 03:38	WG1184313
2-Chlorotoluene	U		0.00105	0.00286	1	10/22/2018 03:38	WG1184313
4-Chlorotoluene	U		0.00129	0.00571	1	10/22/2018 03:38	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00583	0.0286	1	10/22/2018 03:38	WG1184313
1,2-Dibromoethane	U		0.000600	0.00286	1	10/22/2018 03:38	WG1184313
Dibromomethane	U		0.00114	0.00571	1	10/22/2018 03:38	WG1184313
1,2-Dichlorobenzene	U		0.00166	0.00571	1	10/22/2018 03:38	WG1184313
1,3-Dichlorobenzene	U		0.00194	0.00571	1	10/22/2018 03:38	WG1184313
1,4-Dichlorobenzene	U		0.00225	0.00571	1	10/22/2018 03:38	WG1184313
Dichlorodifluoromethane	U		0.000935	0.00286	1	10/22/2018 03:38	WG1184313
1,1-Dichloroethane	U		0.000657	0.00286	1	10/22/2018 03:38	WG1184313
1,2-Dichloroethane	U		0.000543	0.00286	1	10/22/2018 03:38	WG1184313
1,1-Dichloroethene	0.000710 J	J	0.000571	0.00286	1	10/22/2018 03:38	WG1184313
cis-1,2-Dichloroethene	0.00244 J	J	0.000788	0.00286	1	10/22/2018 03:38	WG1184313
trans-1,2-Dichloroethene	U		0.00163	0.00571	1	10/22/2018 03:38	WG1184313
1,2-Dichloropropane	U		0.00145	0.00571	1	10/22/2018 03:38	WG1184313
1,1-Dichloropropene	U		0.000800	0.00286	1	10/22/2018 03:38	WG1184313
1,3-Dichloropropane	U		0.00200	0.00571	1	10/22/2018 03:38	WG1184313
cis-1,3-Dichloropropene	U		0.000775	0.00286	1	10/22/2018 03:38	WG1184313
trans-1,3-Dichloropropene	U		0.00175	0.00571	1	10/22/2018 03:38	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	10/22/2018 03:38	WG1184313
2,2-Dichloropropane	U U	J4	0.000906	0.00286	1	10/22/2018 03:38	WG1184313
Di-isopropyl ether	U		0.000400	0.00114	1	10/23/2018 20:37	WG1185140
Ethylbenzene	U		0.000606	0.00286	1	10/22/2018 03:38	WG1184313
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	10/22/2018 03:38	WG1184313
2-Hexanone	U		0.0114	0.0286	1	10/22/2018 03:38	WG1184313
n-Hexane	0.00385 J	J	0.00121	0.00571	1	10/22/2018 03:38	WG1184313
Iodomethane	U		0.00691	0.0143	1	10/22/2018 03:38	WG1184313
Isopropylbenzene	U		0.000986	0.00286	1	10/22/2018 03:38	WG1184313
p-Isopropyltoluene	U		0.00266	0.00571	1	10/22/2018 03:38	WG1184313
2-Butanone (MEK)	0.0385		0.0143	0.0286	1	10/22/2018 03:38	WG1184313
Methylene Chloride	U		0.00759	0.0286	1	10/22/2018 03:38	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	10/22/2018 03:38	WG1184313

JC 11/14/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000337	0.00114	1	10/23/2018 20:37	WG1185140
Naphthalene	U		0.00357	0.0143	1	10/22/2018 03:38	WG1184313
n-Propylbenzene	U		0.00135	0.00571	1	10/22/2018 03:38	WG1184313
Styrene	U		0.00312	0.0143	1	10/22/2018 03:38	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000571	0.00286	1	10/22/2018 03:38	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1	10/22/2018 03:38	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000771	0.00286	1	10/22/2018 03:38	WG1184313
Tetrachloroethene	0.0198		0.000800	0.00286	1	10/23/2018 20:37	WG1185140
Toluene	U		0.00143	0.00571	1	10/22/2018 03:38	WG1184313
1,2,3-Trichlorobenzene	U		0.000714	0.00286	1	10/22/2018 03:38	WG1184313
1,2,4-Trichlorobenzene	U		0.00551	0.0143	1	10/23/2018 20:37	WG1185140
1,1,1-Trichloroethane	U		0.000314	0.00286	1	10/22/2018 03:38	WG1184313
1,1,2-Trichloroethane	U		0.00101	0.00286	1	10/22/2018 03:38	WG1184313
Trichloroethene	0.000584 J	J	0.000457	0.00114	1	10/23/2018 20:37	WG1185140
Trichlorofluoromethane	U		0.000571	0.00286	1	10/22/2018 03:38	WG1184313
1,2,3-Trichloropropane	U		0.00583	0.0143	1	10/22/2018 03:38	WG1184313
1,2,4-Trimethylbenzene	U		0.00133	0.00571	1	10/22/2018 03:38	WG1184313
1,2,3-Trimethylbenzene	U		0.00131	0.00571	1	10/22/2018 03:38	WG1184313
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	10/22/2018 03:38	WG1184313
Vinyl acetate	U		0.00402	0.0143	1	10/22/2018 03:38	WG1184313
Vinyl chloride	U		0.000780	0.00286	1	10/22/2018 03:38	WG1184313
Xylenes, Total	U		0.00546	0.00743	1	10/22/2018 03:38	WG1184313
(S) Toluene-d8	*101*			*75.0-131*		*10/22/2018 03:38*	WG1184313
(S) Toluene-d8	*124*			*75.0-131*		*10/23/2018 20:37*	WG1185140
(S) Dibromofluoromethane	*111*			*65.0-129*		*10/22/2018 03:38*	WG1184313
(S) Dibromofluoromethane	*94.6*			*65.0-129*		*10/23/2018 20:37*	WG1185140
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/22/2018 03:38*	WG1184313
(S) 4-Bromofluorobenzene	*86.4*			*67.0-138*		*10/23/2018 20:37*	WG1185140

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

B-261-5
Collected date/time: 10/17/18 11:20

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.3		1	10/24/2018 10:00	WG1184860

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0155	0.0283	1	10/22/2018 03:58	WG1184313
Acrylonitrile	U		0.00215	0.0142	1	10/22/2018 03:58	WG1184313
Benzene	U		0.0362	0.0906	80	10/23/2018 22:59	WG1185140
Bromobenzene	U		0.00119	0.0142	1	10/22/2018 03:58	WG1184313
Bromodichloromethane	U		0.000892	0.00283	1	10/22/2018 03:58	WG1184313
Bromochloromethane	U		0.00128	0.00566	1	10/22/2018 03:58	WG1184313
Bromoform	U		0.00677	0.0283	1	10/22/2018 03:58	WG1184313
Bromomethane	U		0.00419	0.0142	1	10/22/2018 03:58	WG1184313
n-Butylbenzene	U		0.00435	0.0142	1	10/22/2018 03:58	WG1184313
sec-Butylbenzene	U		0.00286	0.0142	1	10/22/2018 03:58	WG1184313
tert-Butylbenzene	U		0.00176	0.00566	1	10/22/2018 03:58	WG1184313
Carbon disulfide	U		0.00460	0.0142	1	10/22/2018 03:58	WG1184313
Carbon tetrachloride	U		0.00122	0.00566	1	10/22/2018 03:58	WG1184313
Chlorobenzene	U		0.000649	0.00283	1	10/22/2018 03:58	WG1184313
Chlorodibromomethane	U		0.000510	0.00283	1	10/22/2018 03:58	WG1184313
Chloroethane	U		0.00122	0.00566	1	10/22/2018 03:58	WG1184313
Chloroform	0.00170 U	B J	0.000470	0.00283	1	10/22/2018 03:58	WG1184313
Chloromethane	U		0.00157	0.0142	1	10/22/2018 03:58	WG1184313
2-Chlorotoluene	U		0.00104	0.00283	1	10/22/2018 03:58	WG1184313
4-Chlorotoluene	U		0.00128	0.00566	1	10/22/2018 03:58	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00578	0.0283	1	10/22/2018 03:58	WG1184313
1,2-Dibromoethane	U		0.000594	0.00283	1	10/22/2018 03:58	WG1184313
Dibromomethane	U		0.00113	0.00566	1	10/22/2018 03:58	WG1184313
1,2-Dichlorobenzene	U		0.00164	0.00566	1	10/22/2018 03:58	WG1184313
1,3-Dichlorobenzene	U		0.00193	0.00566	1	10/22/2018 03:58	WG1184313
1,4-Dichlorobenzene	U		0.00223	0.00566	1	10/22/2018 03:58	WG1184313
Dichlorodifluoromethane	U		0.000926	0.00283	1	10/22/2018 03:58	WG1184313
1,1-Dichloroethane	U		0.000651	0.00283	1	10/22/2018 03:58	WG1184313
1,2-Dichloroethane	U		0.000538	0.00283	1	10/22/2018 03:58	WG1184313
1,1-Dichloroethene	U		0.000566	0.00283	1	10/22/2018 03:58	WG1184313
cis-1,2-Dichloroethene	0.00255 J	J	0.000781	0.00283	1	10/22/2018 03:58	WG1184313
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	10/22/2018 03:58	WG1184313
1,2-Dichloropropane	U		0.00144	0.00566	1	10/22/2018 03:58	WG1184313
1,1-Dichloropropene	U		0.000793	0.00283	1	10/22/2018 03:58	WG1184313
1,3-Dichloropropane	U		0.00198	0.00566	1	10/22/2018 03:58	WG1184313
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	10/22/2018 03:58	WG1184313
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	10/22/2018 03:58	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00159	0.00566	1	10/22/2018 03:58	WG1184313
2,2-Dichloropropane	U U	J4	0.000898	0.00283	1	10/22/2018 03:58	WG1184313
Di-isopropyl ether	U		0.0317	0.0906	80	10/23/2018 22:59	WG1185140
Ethylbenzene	U		0.000600	0.00283	1	10/22/2018 03:58	WG1184313
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	10/22/2018 03:58	WG1184313
2-Hexanone	U		0.0113	0.0283	1	10/22/2018 03:58	WG1184313
n-Hexane	U		0.00120	0.00566	1	10/22/2018 03:58	WG1184313
Iodomethane	U		0.00685	0.0142	1	10/22/2018 03:58	WG1184313
Isopropylbenzene	U		0.000977	0.00283	1	10/22/2018 03:58	WG1184313
p-Isopropyltoluene	U		0.00264	0.00566	1	10/22/2018 03:58	WG1184313
2-Butanone (MEK)	0.0396		0.0142	0.0283	1	10/22/2018 03:58	WG1184313
Methylene Chloride	U		0.00752	0.0283	1	10/22/2018 03:58	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	10/22/2018 03:58	WG1184313

JC 11/14/18

B-261-5

Collected date/time: 10/17/18 11:20

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0267	0.0906	80	10/23/2018 22:59	WG1185140
Naphthalene	U		0.00353	0.0142	1	10/22/2018 03:58	WG1184313
n-Propylbenzene	U		0.00134	0.00566	1	10/22/2018 03:58	WG1184313
Styrene	U		0.00309	0.0142	1	10/22/2018 03:58	WG1184313
1,1,1,2-Tetrachloroethane	0.000576 J	J	0.000566	0.00283	1	10/22/2018 03:58	WG1184313
1,1,2,2-Tetrachloroethane	0.000889 J	J	0.000442	0.00283	1	10/22/2018 03:58	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	10/22/2018 03:58	WG1184313
Tetrachloroethene	25.2 J+	V3	0.0634	0.226	80	10/23/2018 22:59	WG1185140
Toluene	0.00151 J	J	0.00142	0.00566	1	10/22/2018 03:58	WG1184313
1,2,3-Trichlorobenzene	U		0.000708	0.00283	1	10/22/2018 03:58	WG1184313
1,2,4-Trichlorobenzene	U		0.437	1.13	80	10/23/2018 22:59	WG1185140
1,1,1-Trichloroethane	U		0.000311	0.00283	1	10/22/2018 03:58	WG1184313
1,1,2-Trichloroethane	U		0.00100	0.00283	1	10/22/2018 03:58	WG1184313
Trichloroethene	U		0.0362	0.0906	80	10/23/2018 22:59	WG1185140
Trichlorofluoromethane	U		0.000566	0.00283	1	10/22/2018 03:58	WG1184313
1,2,3-Trichloropropane	U		0.00578	0.0142	1	10/22/2018 03:58	WG1184313
1,2,4-Trimethylbenzene	U		0.00131	0.00566	1	10/22/2018 03:58	WG1184313
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	10/22/2018 03:58	WG1184313
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	10/22/2018 03:58	WG1184313
Vinyl acetate	U		0.00399	0.0142	1	10/22/2018 03:58	WG1184313
Vinyl chloride	U		0.000773	0.00283	1	10/22/2018 03:58	WG1184313
Xylenes, Total	U		0.00541	0.00736	1	10/22/2018 03:58	WG1184313
(S) Toluene-d8	*98.4*			*75.0-131*		*10/22/2018 03:58*	WG1184313
(S) Toluene-d8	*120*			*75.0-131*		*10/23/2018 22:59*	WG1185140
(S) Dibromofluoromethane	*110*			*65.0-129*		*10/22/2018 03:58*	WG1184313
(S) Dibromofluoromethane	*96.7*			*65.0-129*		*10/23/2018 22:59*	WG1185140
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/22/2018 03:58*	WG1184313
(S) 4-Bromofluorobenzene	*82.1*			*67.0-138*		*10/23/2018 22:59*	WG1185140

Sample Narrative:

L1036155-21 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-21 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

JC 11/14/18

B-261-8
Collected date/time: 10/17/18 11:28

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.5		1	10/24/2018 09:40	WG1184862

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0164	0.0300	1	10/22/2018 04:18	WG1184313
Acrylonitrile	U		0.00228	0.0150	1	10/22/2018 04:18	WG1184313
Benzene	U		0.00479	0.0120	10	10/23/2018 21:58	WG1185140
Bromobenzene	U		0.00126	0.0150	1	10/22/2018 04:18	WG1184313
Bromodichloromethane	U		0.000944	0.00300	1	10/22/2018 04:18	WG1184313
Bromochloromethane	U		0.00135	0.00599	1	10/22/2018 04:18	WG1184313
Bromoform	U		0.00717	0.0300	1	10/22/2018 04:18	WG1184313
Bromomethane	U		0.00443	0.0150	1	10/22/2018 04:18	WG1184313
n-Butylbenzene	U		0.00460	0.0150	1	10/22/2018 04:18	WG1184313
sec-Butylbenzene	U		0.00303	0.0150	1	10/22/2018 04:18	WG1184313
tert-Butylbenzene	U		0.00186	0.00599	1	10/22/2018 04:18	WG1184313
Carbon disulfide	U		0.00487	0.0150	1	10/22/2018 04:18	WG1184313
Carbon tetrachloride	U		0.00129	0.00599	1	10/22/2018 04:18	WG1184313
Chlorobenzene	U		0.000687	0.00300	1	10/22/2018 04:18	WG1184313
Chlorodibromomethane	U		0.000539	0.00300	1	10/22/2018 04:18	WG1184313
Chloroethane	U		0.00129	0.00599	1	10/22/2018 04:18	WG1184313
Chloroform	0.00196	U B J	0.000497	0.00300	1	10/22/2018 04:18	WG1184313
Chloromethane	U		0.00167	0.0150	1	10/22/2018 04:18	WG1184313
2-Chlorotoluene	U		0.00110	0.00300	1	10/22/2018 04:18	WG1184313
4-Chlorotoluene	U		0.00135	0.00599	1	10/22/2018 04:18	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00611	0.0300	1	10/22/2018 04:18	WG1184313
1,2-Dibromoethane	U		0.000629	0.00300	1	10/22/2018 04:18	WG1184313
Dibromomethane	U		0.00120	0.00599	1	10/22/2018 04:18	WG1184313
1,2-Dichlorobenzene	U		0.00174	0.00599	1	10/22/2018 04:18	WG1184313
1,3-Dichlorobenzene	U		0.00204	0.00599	1	10/22/2018 04:18	WG1184313
1,4-Dichlorobenzene	U		0.00236	0.00599	1	10/22/2018 04:18	WG1184313
Dichlorodifluoromethane	U		0.000980	0.00300	1	10/22/2018 04:18	WG1184313
1,1-Dichloroethane	U		0.000689	0.00300	1	10/22/2018 04:18	WG1184313
1,2-Dichloroethane	U		0.000569	0.00300	1	10/22/2018 04:18	WG1184313
1,1-Dichloroethene	U		0.000599	0.00300	1	10/22/2018 04:18	WG1184313
cis-1,2-Dichloroethene	0.00234	J J	0.000827	0.00300	1	10/22/2018 04:18	WG1184313
trans-1,2-Dichloroethene	U		0.00171	0.00599	1	10/22/2018 04:18	WG1184313
1,2-Dichloropropane	U		0.00152	0.00599	1	10/22/2018 04:18	WG1184313
1,1-Dichloropropene	U		0.000839	0.00300	1	10/22/2018 04:18	WG1184313
1,3-Dichloropropane	U		0.00210	0.00599	1	10/22/2018 04:18	WG1184313
cis-1,3-Dichloropropene	U		0.000812	0.00300	1	10/22/2018 04:18	WG1184313
trans-1,3-Dichloropropene	U		0.00183	0.00599	1	10/22/2018 04:18	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00168	0.00599	1	10/22/2018 04:18	WG1184313
2,2-Dichloropropane	U	U J4	0.000950	0.00300	1	10/22/2018 04:18	WG1184313
Di-isopropyl ether	U		0.00419	0.0120	10	10/23/2018 21:58	WG1185140
Ethylbenzene	U		0.000635	0.00300	1	10/22/2018 04:18	WG1184313
Hexachloro-1,3-butadiene	U		0.0152	0.0300	1	10/22/2018 04:18	WG1184313
2-Hexanone	U		0.0120	0.0300	1	10/22/2018 04:18	WG1184313
n-Hexane	U		0.00127	0.00599	1	10/22/2018 04:18	WG1184313
Iodomethane	U		0.00725	0.0150	1	10/22/2018 04:18	WG1184313
Isopropylbenzene	U		0.00103	0.00300	1	10/22/2018 04:18	WG1184313
p-Isopropyltoluene	U		0.00279	0.00599	1	10/22/2018 04:18	WG1184313
2-Butanone (MEK)	0.0558		0.0150	0.0300	1	10/22/2018 04:18	WG1184313
Methylene Chloride	U		0.00796	0.0300	1	10/22/2018 04:18	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0300	1	10/22/2018 04:18	WG1184313

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B-261-8

Collected date/time: 10/17/18 11:28

SAMPLE RESULTS - 22

L1036155

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00354	0.0120	10	10/23/2018 21:58	WG1185140
Naphthalene	U		0.00374	0.0150	1	10/22/2018 04:18	WG1184313
n-Propylbenzene	U		0.00141	0.00599	1	10/22/2018 04:18	WG1184313
Styrene	U		0.00327	0.0150	1	10/22/2018 04:18	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000599	0.00300	1	10/22/2018 04:18	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000467	0.00300	1	10/22/2018 04:18	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000809	0.00300	1	10/22/2018 04:18	WG1184313
Tetrachloroethene	7.13		0.0336	0.120	40	10/25/2018 01:18	WG1185815
Toluene	0.00162 J	J	0.00150	0.00599	1	10/22/2018 04:18	WG1184313
1,2,3-Trichlorobenzene	U		0.000749	0.00300	1	10/22/2018 04:18	WG1184313
1,2,4-Trichlorobenzene	U		0.0578	0.150	10	10/23/2018 21:58	WG1185140
1,1,1-Trichloroethane	U		0.000330	0.00300	1	10/22/2018 04:18	WG1184313
1,1,2-Trichloroethane	U		0.00106	0.00300	1	10/22/2018 04:18	WG1184313
Trichloroethene	U		0.00479	0.0120	10	10/23/2018 21:58	WG1185140
Trichlorofluoromethane	U		0.000599	0.00300	1	10/22/2018 04:18	WG1184313
1,2,3-Trichloropropane	U		0.00611	0.0150	1	10/22/2018 04:18	WG1184313
1,2,4-Trimethylbenzene	U		0.00139	0.00599	1	10/22/2018 04:18	WG1184313
1,2,3-Trimethylbenzene	U		0.00138	0.00599	1	10/22/2018 04:18	WG1184313
1,3,5-Trimethylbenzene	U		0.00129	0.00599	1	10/22/2018 04:18	WG1184313
Vinyl acetate	U		0.00422	0.0150	1	10/22/2018 04:18	WG1184313
Vinyl chloride	U		0.000818	0.00300	1	10/22/2018 04:18	WG1184313
Xylenes, Total	U		0.00573	0.00779	1	10/22/2018 04:18	WG1184313
(S) Toluene-d8	*99.7*			*75.0-131*		*10/22/2018 04:18*	WG1184313
(S) Toluene-d8	*117*			*75.0-131*		*10/23/2018 21:58*	WG1185140
(S) Toluene-d8	*106*			*75.0-131*		*10/25/2018 01:18*	WG1185815
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/22/2018 04:18*	WG1184313
(S) Dibromofluoromethane	*99.8*			*65.0-129*		*10/23/2018 21:58*	WG1185140
(S) Dibromofluoromethane	*101*			*65.0-129*		*10/25/2018 01:18*	WG1185815
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/22/2018 04:18*	WG1184313
(S) 4-Bromofluorobenzene	*94.2*			*67.0-138*		*10/23/2018 21:58*	WG1185140
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*10/25/2018 01:18*	WG1185815

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Sample Narrative:

L1036155-22 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-22 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.8		1	10/24/2018 09:40	WG1184862

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0158	0.0288	1	10/22/2018 04:38	WG1184313
Acrylonitrile	U			0.00219	0.0144	1	10/22/2018 04:38	WG1184313
Benzene	U			0.0184	0.0461	40	10/23/2018 22:39	WG1185140
Bromobenzene	U			0.00121	0.0144	1	10/22/2018 04:38	WG1184313
Bromodichloromethane	U			0.000908	0.00288	1	10/22/2018 04:38	WG1184313
Bromochloromethane	U			0.00130	0.00576	1	10/22/2018 04:38	WG1184313
Bromoform	U			0.00689	0.0288	1	10/22/2018 04:38	WG1184313
Bromomethane	U			0.00426	0.0144	1	10/22/2018 04:38	WG1184313
n-Butylbenzene	U			0.00442	0.0144	1	10/22/2018 04:38	WG1184313
sec-Butylbenzene	U			0.00292	0.0144	1	10/22/2018 04:38	WG1184313
tert-Butylbenzene	U			0.00179	0.00576	1	10/22/2018 04:38	WG1184313
Carbon disulfide	U			0.00468	0.0144	1	10/22/2018 04:38	WG1184313
Carbon tetrachloride	U			0.00124	0.00576	1	10/22/2018 04:38	WG1184313
Chlorobenzene	U			0.000660	0.00288	1	10/22/2018 04:38	WG1184313
Chlorodibromomethane	0.000554	J	J	0.000518	0.00288	1	10/22/2018 04:38	WG1184313
Chloroethane	U			0.00124	0.00576	1	10/22/2018 04:38	WG1184313
Chloroform	0.00198	U	B J	0.000478	0.00288	1	10/22/2018 04:38	WG1184313
Chloromethane	U			0.00160	0.0144	1	10/22/2018 04:38	WG1184313
2-Chlorotoluene	U			0.00106	0.00288	1	10/22/2018 04:38	WG1184313
4-Chlorotoluene	U			0.00130	0.00576	1	10/22/2018 04:38	WG1184313
1,2-Dibromo-3-Chloropropane	U			0.00588	0.0288	1	10/22/2018 04:38	WG1184313
1,2-Dibromoethane	U			0.000605	0.00288	1	10/22/2018 04:38	WG1184313
Dibromomethane	U			0.00115	0.00576	1	10/22/2018 04:38	WG1184313
1,2-Dichlorobenzene	U			0.00167	0.00576	1	10/22/2018 04:38	WG1184313
1,3-Dichlorobenzene	U			0.00196	0.00576	1	10/22/2018 04:38	WG1184313
1,4-Dichlorobenzene	U			0.00227	0.00576	1	10/22/2018 04:38	WG1184313
Dichlorodifluoromethane	U			0.000943	0.00288	1	10/22/2018 04:38	WG1184313
1,1-Dichloroethane	U			0.000663	0.00288	1	10/22/2018 04:38	WG1184313
1,2-Dichloroethane	U			0.000547	0.00288	1	10/22/2018 04:38	WG1184313
1,1-Dichloroethene	U			0.000576	0.00288	1	10/22/2018 04:38	WG1184313
cis-1,2-Dichloroethene	0.00359			0.000795	0.00288	1	10/22/2018 04:38	WG1184313
trans-1,2-Dichloroethene	U			0.00165	0.00576	1	10/22/2018 04:38	WG1184313
1,2-Dichloropropane	U			0.00146	0.00576	1	10/22/2018 04:38	WG1184313
1,1-Dichloropropene	U			0.000807	0.00288	1	10/22/2018 04:38	WG1184313
1,3-Dichloropropane	U			0.00202	0.00576	1	10/22/2018 04:38	WG1184313
cis-1,3-Dichloropropene	U			0.000781	0.00288	1	10/22/2018 04:38	WG1184313
trans-1,3-Dichloropropene	U			0.00176	0.00576	1	10/22/2018 04:38	WG1184313
trans-1,4-Dichloro-2-butene	U			0.00161	0.00576	1	10/22/2018 04:38	WG1184313
2,2-Dichloropropane	U	U	J4	0.000914	0.00288	1	10/22/2018 04:38	WG1184313
Di-isopropyl ether	U			0.0161	0.0461	40	10/23/2018 22:39	WG1185140
Ethylbenzene	U			0.000611	0.00288	1	10/22/2018 04:38	WG1184313
Hexachloro-1,3-butadiene	U			0.0146	0.0288	1	10/22/2018 04:38	WG1184313
2-Hexanone	U			0.0115	0.0288	1	10/22/2018 04:38	WG1184313
n-Hexane	U			0.00122	0.00576	1	10/22/2018 04:38	WG1184313
Iodomethane	U			0.00697	0.0144	1	10/22/2018 04:38	WG1184313
Isopropylbenzene	U			0.000994	0.00288	1	10/22/2018 04:38	WG1184313
p-Isopropyltoluene	U			0.00268	0.00576	1	10/22/2018 04:38	WG1184313
2-Butanone (MEK)	0.0333			0.0144	0.0288	1	10/22/2018 04:38	WG1184313
Methylene Chloride	U			0.00765	0.0288	1	10/22/2018 04:38	WG1184313
4-Methyl-2-pentanone (MIBK)	U			0.0115	0.0288	1	10/22/2018 04:38	WG1184313

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0136	0.0461	40	10/23/2018 22:39	WG1185140
Naphthalene	U		0.00359	0.0144	1	10/22/2018 04:38	WG1184313
n-Propylbenzene	U		0.00136	0.00576	1	10/22/2018 04:38	WG1184313
Styrene	U		0.00315	0.0144	1	10/22/2018 04:38	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000576	0.00288	1	10/22/2018 04:38	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000449	0.00288	1	10/22/2018 04:38	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000778	0.00288	1	10/22/2018 04:38	WG1184313
Tetrachloroethene	25.3 J+	V3	0.0323	0.115	40	10/23/2018 22:39	WG1185140
Toluene	U		0.00144	0.00576	1	10/22/2018 04:38	WG1184313
1,2,3-Trichlorobenzene	U		0.000720	0.00288	1	10/22/2018 04:38	WG1184313
1,2,4-Trichlorobenzene	U		0.222	0.576	40	10/23/2018 22:39	WG1185140
1,1,1-Trichloroethane	U		0.000317	0.00288	1	10/22/2018 04:38	WG1184313
1,1,2-Trichloroethane	U		0.00102	0.00288	1	10/22/2018 04:38	WG1184313
Trichloroethene	U		0.0184	0.0461	40	10/23/2018 22:39	WG1185140
Trichlorofluoromethane	U		0.000576	0.00288	1	10/22/2018 04:38	WG1184313
1,2,3-Trichloropropane	U		0.00588	0.0144	1	10/22/2018 04:38	WG1184313
1,2,4-Trimethylbenzene	U		0.00134	0.00576	1	10/22/2018 04:38	WG1184313
1,2,3-Trimethylbenzene	U		0.00133	0.00576	1	10/22/2018 04:38	WG1184313
1,3,5-Trimethylbenzene	U		0.00124	0.00576	1	10/22/2018 04:38	WG1184313
Vinyl acetate	U		0.00406	0.0144	1	10/22/2018 04:38	WG1184313
Vinyl chloride	U		0.000787	0.00288	1	10/22/2018 04:38	WG1184313
Xylenes, Total	U		0.00551	0.00749	1	10/22/2018 04:38	WG1184313
(S) Toluene-d8	*97.2*			*75.0-131*		*10/22/2018 04:38*	WG1184313
(S) Toluene-d8	*127*			*75.0-131*		*10/23/2018 22:39*	WG1185140
(S) Dibromofluoromethane	*111*			*65.0-129*		*10/22/2018 04:38*	WG1184313
(S) Dibromofluoromethane	*94.6*			*65.0-129*		*10/23/2018 22:39*	WG1185140
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/22/2018 04:38*	WG1184313
(S) 4-Bromofluorobenzene	*84.5*			*67.0-138*		*10/23/2018 22:39*	WG1185140

Sample Narrative:

L1036155-23 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-23 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.0		1	10/24/2018 09:40	WG1184862

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0151	0.0275	1	10/22/2018 04:58	WG1184313
Acrylonitrile	U		0.00209	0.0137	1	10/22/2018 04:58	WG1184313
Benzene	U		0.00879	0.0220	20	10/23/2018 22:19	WG1185140
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 04:58	WG1184313
Bromodichloromethane	U		0.000866	0.00275	1	10/22/2018 04:58	WG1184313
Bromochloromethane	U		0.00124	0.00549	1	10/22/2018 04:58	WG1184313
Bromoform	U		0.00657	0.0275	1	10/22/2018 04:58	WG1184313
Bromomethane	U		0.00407	0.0137	1	10/22/2018 04:58	WG1184313
n-Butylbenzene	U		0.00422	0.0137	1	10/22/2018 04:58	WG1184313
sec-Butylbenzene	U		0.00278	0.0137	1	10/22/2018 04:58	WG1184313
tert-Butylbenzene	U		0.00170	0.00549	1	10/22/2018 04:58	WG1184313
Carbon disulfide	U		0.00446	0.0137	1	10/22/2018 04:58	WG1184313
Carbon tetrachloride	U		0.00119	0.00549	1	10/22/2018 04:58	WG1184313
Chlorobenzene	U		0.000630	0.00275	1	10/22/2018 04:58	WG1184313
Chlorodibromomethane	U		0.000494	0.00275	1	10/22/2018 04:58	WG1184313
Chloroethane	U		0.00119	0.00549	1	10/22/2018 04:58	WG1184313
Chloroform	0.00171 U	B J	0.000456	0.00275	1	10/22/2018 04:58	WG1184313
Chloromethane	U		0.00153	0.0137	1	10/22/2018 04:58	WG1184313
2-Chlorotoluene	U		0.00101	0.00275	1	10/22/2018 04:58	WG1184313
4-Chlorotoluene	U		0.00124	0.00549	1	10/22/2018 04:58	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00560	0.0275	1	10/22/2018 04:58	WG1184313
1,2-Dibromoethane	U		0.000577	0.00275	1	10/22/2018 04:58	WG1184313
Dibromomethane	U		0.00110	0.00549	1	10/22/2018 04:58	WG1184313
1,2-Dichlorobenzene	U		0.00159	0.00549	1	10/22/2018 04:58	WG1184313
1,3-Dichlorobenzene	U		0.00187	0.00549	1	10/22/2018 04:58	WG1184313
1,4-Dichlorobenzene	U		0.00216	0.00549	1	10/22/2018 04:58	WG1184313
Dichlorodifluoromethane	U		0.000899	0.00275	1	10/22/2018 04:58	WG1184313
1,1-Dichloroethane	U		0.000632	0.00275	1	10/22/2018 04:58	WG1184313
1,2-Dichloroethane	U		0.000522	0.00275	1	10/22/2018 04:58	WG1184313
1,1-Dichloroethene	U		0.000549	0.00275	1	10/22/2018 04:58	WG1184313
cis-1,2-Dichloroethene	0.00353		0.000758	0.00275	1	10/22/2018 04:58	WG1184313
trans-1,2-Dichloroethene	U		0.00157	0.00549	1	10/22/2018 04:58	WG1184313
1,2-Dichloropropane	U		0.00140	0.00549	1	10/22/2018 04:58	WG1184313
1,1-Dichloropropene	U		0.000769	0.00275	1	10/22/2018 04:58	WG1184313
1,3-Dichloropropane	U		0.00192	0.00549	1	10/22/2018 04:58	WG1184313
cis-1,3-Dichloropropene	U		0.000745	0.00275	1	10/22/2018 04:58	WG1184313
trans-1,3-Dichloropropene	U		0.00168	0.00549	1	10/22/2018 04:58	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	10/22/2018 04:58	WG1184313
2,2-Dichloropropane	U U	J4	0.000871	0.00275	1	10/22/2018 04:58	WG1184313
Di-isopropyl ether	U		0.00769	0.0220	20	10/23/2018 22:19	WG1185140
Ethylbenzene	U		0.000582	0.00275	1	10/22/2018 04:58	WG1184313
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	10/22/2018 04:58	WG1184313
2-Hexanone	U		0.0110	0.0275	1	10/22/2018 04:58	WG1184313
n-Hexane	U		0.00116	0.00549	1	10/22/2018 04:58	WG1184313
Iodomethane	U		0.00665	0.0137	1	10/22/2018 04:58	WG1184313
Isopropylbenzene	U		0.000948	0.00275	1	10/22/2018 04:58	WG1184313
p-Isopropyltoluene	U		0.00256	0.00549	1	10/22/2018 04:58	WG1184313
2-Butanone (MEK)	0.0179 J	J	0.0137	0.0275	1	10/22/2018 04:58	WG1184313
Methylene Chloride	U		0.00730	0.0275	1	10/22/2018 04:58	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/22/2018 04:58	WG1184313

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00648	0.0220	20	10/23/2018 22:19	WG1185140
Naphthalene	U		0.00343	0.0137	1	10/22/2018 04:58	WG1184313
n-Propylbenzene	U		0.00130	0.00549	1	10/22/2018 04:58	WG1184313
Styrene	U		0.00300	0.0137	1	10/22/2018 04:58	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000549	0.00275	1	10/22/2018 04:58	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	10/22/2018 04:58	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000742	0.00275	1	10/22/2018 04:58	WG1184313
Tetrachloroethene	13.1		0.0154	0.0549	20	10/23/2018 22:19	WG1185140
Toluene	U		0.00137	0.00549	1	10/22/2018 04:58	WG1184313
1,2,3-Trichlorobenzene	U		0.000687	0.00275	1	10/22/2018 04:58	WG1184313
1,2,4-Trichlorobenzene	U		0.106	0.275	20	10/23/2018 22:19	WG1185140
1,1,1-Trichloroethane	U		0.000302	0.00275	1	10/22/2018 04:58	WG1184313
1,1,2-Trichloroethane	U		0.000970	0.00275	1	10/22/2018 04:58	WG1184313
Trichloroethene	0.0284		0.00879	0.0220	20	10/23/2018 22:19	WG1185140
Trichlorofluoromethane	U		0.000549	0.00275	1	10/22/2018 04:58	WG1184313
1,2,3-Trichloropropane	U		0.00560	0.0137	1	10/22/2018 04:58	WG1184313
1,2,4-Trimethylbenzene	0.00228 J	J	0.00127	0.00549	1	10/22/2018 04:58	WG1184313
1,2,3-Trimethylbenzene	U		0.00126	0.00549	1	10/22/2018 04:58	WG1184313
1,3,5-Trimethylbenzene	U		0.00119	0.00549	1	10/22/2018 04:58	WG1184313
Vinyl acetate	U		0.00387	0.0137	1	10/22/2018 04:58	WG1184313
Vinyl chloride	U		0.000750	0.00275	1	10/22/2018 04:58	WG1184313
Xylenes, Total	U		0.00525	0.00714	1	10/22/2018 04:58	WG1184313
(S) Toluene-d8	*96.7*			*75.0-131*		*10/22/2018 04:58*	WG1184313
(S) Toluene-d8	*116*			*75.0-131*		*10/23/2018 22:19*	WG1185140
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/22/2018 04:58*	WG1184313
(S) Dibromofluoromethane	*102*			*65.0-129*		*10/23/2018 22:19*	WG1185140
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/22/2018 04:58*	WG1184313
(S) 4-Bromofluorobenzene	*87.8*			*67.0-138*		*10/23/2018 22:19*	WG1185140

Sample Narrative:

L1036155-24 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-24 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.0		1	10/24/2018 09:40	WG1184862

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0154	0.0281	1	10/22/2018 05:18	WG1184313
Acrylonitrile	U			0.00214	0.0140	1	10/22/2018 05:18	WG1184313
Benzene	U			0.0899	0.225	200	10/23/2018 23:20	WG1185140
Bromobenzene	U			0.00118	0.0140	1	10/22/2018 05:18	WG1184313
Bromodichloromethane	U			0.000886	0.00281	1	10/22/2018 05:18	WG1184313
Bromochloromethane	U			0.00127	0.00562	1	10/22/2018 05:18	WG1184313
Bromoform	U			0.00672	0.0281	1	10/22/2018 05:18	WG1184313
Bromomethane	U			0.00416	0.0140	1	10/22/2018 05:18	WG1184313
n-Butylbenzene	U			0.00432	0.0140	1	10/22/2018 05:18	WG1184313
sec-Butylbenzene	U			0.00284	0.0140	1	10/22/2018 05:18	WG1184313
tert-Butylbenzene	U			0.00174	0.00562	1	10/22/2018 05:18	WG1184313
Carbon disulfide	U			0.00456	0.0140	1	10/22/2018 05:18	WG1184313
Carbon tetrachloride	U			0.00121	0.00562	1	10/22/2018 05:18	WG1184313
Chlorobenzene	U			0.000644	0.00281	1	10/22/2018 05:18	WG1184313
Chlorodibromomethane	0.000852	J	J	0.000506	0.00281	1	10/22/2018 05:18	WG1184313
Chloroethane	U			0.00121	0.00562	1	10/22/2018 05:18	WG1184313
Chloroform	0.00214	U	B J	0.000466	0.00281	1	10/22/2018 05:18	WG1184313
Chloromethane	U			0.00156	0.0140	1	10/22/2018 05:18	WG1184313
2-Chlorotoluene	U			0.00103	0.00281	1	10/22/2018 05:18	WG1184313
4-Chlorotoluene	U			0.00127	0.00562	1	10/22/2018 05:18	WG1184313
1,2-Dibromo-3-Chloropropane	U			0.00573	0.0281	1	10/22/2018 05:18	WG1184313
1,2-Dibromoethane	U			0.000590	0.00281	1	10/22/2018 05:18	WG1184313
Dibromomethane	U			0.00112	0.00562	1	10/22/2018 05:18	WG1184313
1,2-Dichlorobenzene	U			0.00163	0.00562	1	10/22/2018 05:18	WG1184313
1,3-Dichlorobenzene	U			0.00191	0.00562	1	10/22/2018 05:18	WG1184313
1,4-Dichlorobenzene	U			0.00221	0.00562	1	10/22/2018 05:18	WG1184313
Dichlorodifluoromethane	U			0.000919	0.00281	1	10/22/2018 05:18	WG1184313
1,1-Dichloroethane	U			0.000646	0.00281	1	10/22/2018 05:18	WG1184313
1,2-Dichloroethane	U			0.000534	0.00281	1	10/22/2018 05:18	WG1184313
1,1-Dichloroethene	0.00239	J	J	0.000562	0.00281	1	10/22/2018 05:18	WG1184313
cis-1,2-Dichloroethene	0.105			0.000775	0.00281	1	10/22/2018 05:18	WG1184313
trans-1,2-Dichloroethene	0.00200	J	J	0.00161	0.00562	1	10/22/2018 05:18	WG1184313
1,2-Dichloropropane	U			0.00143	0.00562	1	10/22/2018 05:18	WG1184313
1,1-Dichloropropene	U			0.000787	0.00281	1	10/22/2018 05:18	WG1184313
1,3-Dichloropropane	U			0.00197	0.00562	1	10/22/2018 05:18	WG1184313
cis-1,3-Dichloropropene	U			0.000762	0.00281	1	10/22/2018 05:18	WG1184313
trans-1,3-Dichloropropene	U			0.00172	0.00562	1	10/22/2018 05:18	WG1184313
trans-1,4-Dichloro-2-butene	U			0.00157	0.00562	1	10/22/2018 05:18	WG1184313
2,2-Dichloropropane	U	U	J4	0.000891	0.00281	1	10/22/2018 05:18	WG1184313
Di-isopropyl ether	U			0.0787	0.225	200	10/23/2018 23:20	WG1185140
Ethylbenzene	0.000806	J	J	0.000596	0.00281	1	10/22/2018 05:18	WG1184313
Hexachloro-1,3-butadiene	U			0.0143	0.0281	1	10/22/2018 05:18	WG1184313
2-Hexanone	U			0.0112	0.0281	1	10/22/2018 05:18	WG1184313
n-Hexane	U			0.00119	0.00562	1	10/22/2018 05:18	WG1184313
Iodomethane	U			0.00680	0.0140	1	10/22/2018 05:18	WG1184313
Isopropylbenzene	U			0.000970	0.00281	1	10/22/2018 05:18	WG1184313
p-Isopropyltoluene	0.00394	J	J	0.00262	0.00562	1	10/22/2018 05:18	WG1184313
2-Butanone (MEK)	0.0256	J	J	0.0140	0.0281	1	10/22/2018 05:18	WG1184313
Methylene Chloride	U			0.00746	0.0281	1	10/22/2018 05:18	WG1184313
4-Methyl-2-pentanone (MIBK)	U			0.0112	0.0281	1	10/22/2018 05:18	WG1184313

JC 11/14/18

B-261-20
Collected date/time: 10/17/18 11:42

SAMPLE RESULTS - 25

L1036155

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.0663	0.225	200	10/23/2018 23:20	WG1185140
Naphthalene	U			0.00351	0.0140	1	10/22/2018 05:18	WG1184313
n-Propylbenzene	0.00321	J	J	0.00133	0.00562	1	10/22/2018 05:18	WG1184313
Styrene	U			0.00307	0.0140	1	10/22/2018 05:18	WG1184313
1,1,1,2-Tetrachloroethane	U			0.000562	0.00281	1	10/22/2018 05:18	WG1184313
1,1,2,2-Tetrachloroethane	U			0.000438	0.00281	1	10/22/2018 05:18	WG1184313
1,1,2-Trichlorotrifluoroethane	U			0.000759	0.00281	1	10/22/2018 05:18	WG1184313
Tetrachloroethene	112	J+	V3	0.157	0.562	200	10/23/2018 23:20	WG1185140
Toluene	0.00203	J	J	0.00140	0.00562	1	10/22/2018 05:18	WG1184313
1,2,3-Trichlorobenzene	U			0.000702	0.00281	1	10/22/2018 05:18	WG1184313
1,2,4-Trichlorobenzene	U			1.08	2.81	200	10/23/2018 23:20	WG1185140
1,1,1-Trichloroethane	U			0.000309	0.00281	1	10/22/2018 05:18	WG1184313
1,1,2-Trichloroethane	U			0.000992	0.00281	1	10/22/2018 05:18	WG1184313
Trichloroethene	0.908			0.0899	0.225	200	10/23/2018 23:20	WG1185140
Trichlorofluoromethane	U			0.000562	0.00281	1	10/22/2018 05:18	WG1184313
1,2,3-Trichloropropane	U			0.00573	0.0140	1	10/22/2018 05:18	WG1184313
1,2,4-Trimethylbenzene	0.0136			0.00130	0.00562	1	10/22/2018 05:18	WG1184313
1,2,3-Trimethylbenzene	0.00393	J	J	0.00129	0.00562	1	10/22/2018 05:18	WG1184313
1,3,5-Trimethylbenzene	0.00399	J	J	0.00121	0.00562	1	10/22/2018 05:18	WG1184313
Vinyl acetate	U			0.00396	0.0140	1	10/22/2018 05:18	WG1184313
Vinyl chloride	U			0.000768	0.00281	1	10/22/2018 05:18	WG1184313
Xylenes, Total	U			0.00537	0.00730	1	10/22/2018 05:18	WG1184313
(S) Toluene-d8	*89.7*				*75.0-131*		*10/22/2018 05:18*	WG1184313
(S) Toluene-d8	*120*				*75.0-131*		*10/23/2018 23:20*	WG1185140
(S) Dibromofluoromethane	*111*				*65.0-129*		*10/22/2018 05:18*	WG1184313
(S) Dibromofluoromethane	*95.1*				*65.0-129*		*10/23/2018 23:20*	WG1185140
(S) 4-Bromofluorobenzene	*121*				*67.0-138*		*10/22/2018 05:18*	WG1184313
(S) 4-Bromofluorobenzene	*78.4*				*67.0-138*		*10/23/2018 23:20*	WG1185140

Sample Narrative:

L1036155-25 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-25 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.9		1	10/24/2018 09:40	WG1184862

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			1.30	2.36	80	10/24/2018 01:06	WG1185221
Acrylonitrile	U			0.00224	0.0147	1	10/22/2018 15:59	WG1184455
Benzene	U			0.000471	0.00118	1	10/22/2018 15:59	WG1184455
Bromobenzene	U			0.00124	0.0147	1	10/22/2018 15:59	WG1184455
Bromodichloromethane	U			0.000928	0.00294	1	10/22/2018 15:59	WG1184455
Bromochloromethane	U			0.00133	0.00589	1	10/22/2018 15:59	WG1184455
Bromoform	U			0.00704	0.0294	1	10/22/2018 15:59	WG1184455
Bromomethane	U			0.00436	0.0147	1	10/22/2018 15:59	WG1184455
n-Butylbenzene	U			0.00452	0.0147	1	10/22/2018 15:59	WG1184455
sec-Butylbenzene	U			0.00298	0.0147	1	10/22/2018 15:59	WG1184455
tert-Butylbenzene	U			0.00183	0.00589	1	10/22/2018 15:59	WG1184455
Carbon disulfide	U			0.00478	0.0147	1	10/22/2018 15:59	WG1184455
Carbon tetrachloride	U			0.00127	0.00589	1	10/22/2018 15:59	WG1184455
Chlorobenzene	U			0.000675	0.00294	1	10/22/2018 15:59	WG1184455
Chlorodibromomethane	U			0.000530	0.00294	1	10/22/2018 15:59	WG1184455
Chloroethane	U			0.00127	0.00589	1	10/22/2018 15:59	WG1184455
Chloroform	0.00115	U	B J	0.000489	0.00294	1	10/22/2018 15:59	WG1184455
Chloromethane	U			0.00164	0.0147	1	10/22/2018 15:59	WG1184455
2-Chlorotoluene	U			0.00108	0.00294	1	10/22/2018 15:59	WG1184455
4-Chlorotoluene	U			0.00133	0.00589	1	10/22/2018 15:59	WG1184455
1,2-Dibromo-3-Chloropropane	U			0.00601	0.0294	1	10/22/2018 15:59	WG1184455
1,2-Dibromoethane	U			0.000618	0.00294	1	10/22/2018 15:59	WG1184455
Dibromomethane	U			0.00118	0.00589	1	10/22/2018 15:59	WG1184455
1,2-Dichlorobenzene	U			0.00171	0.00589	1	10/22/2018 15:59	WG1184455
1,3-Dichlorobenzene	U			0.00200	0.00589	1	10/22/2018 15:59	WG1184455
1,4-Dichlorobenzene	U			0.00232	0.00589	1	10/22/2018 15:59	WG1184455
Dichlorodifluoromethane	U			0.0770	0.236	80	10/24/2018 01:06	WG1185221
1,1-Dichloroethane	U			0.000677	0.00294	1	10/22/2018 15:59	WG1184455
1,2-Dichloroethane	U			0.000560	0.00294	1	10/22/2018 15:59	WG1184455
1,1-Dichloroethene	U			0.000589	0.00294	1	10/22/2018 15:59	WG1184455
cis-1,2-Dichloroethene	U			0.0650	0.236	80	10/24/2018 01:06	WG1185221
trans-1,2-Dichloroethene	U			0.00168	0.00589	1	10/22/2018 15:59	WG1184455
1,2-Dichloropropane	U			0.00150	0.00589	1	10/22/2018 15:59	WG1184455
1,1-Dichloropropene	U			0.000825	0.00294	1	10/22/2018 15:59	WG1184455
1,3-Dichloropropane	U			0.00206	0.00589	1	10/22/2018 15:59	WG1184455
cis-1,3-Dichloropropene	U			0.000799	0.00294	1	10/22/2018 15:59	WG1184455
trans-1,3-Dichloropropene	U	U	J4	0.00180	0.00589	1	10/22/2018 15:59	WG1184455
trans-1,4-Dichloro-2-butene	U			0.00165	0.00589	1	10/22/2018 15:59	WG1184455
2,2-Dichloropropane	U			0.000934	0.00294	1	10/22/2018 15:59	WG1184455
Di-isopropyl ether	U			0.000412	0.00118	1	10/22/2018 15:59	WG1184455
Ethylbenzene	0.00214	J	J	0.000624	0.00294	1	10/22/2018 15:59	WG1184455
Hexachloro-1,3-butadiene	U			0.0150	0.0294	1	10/22/2018 15:59	WG1184455
2-Hexanone	U			0.0118	0.0294	1	10/22/2018 15:59	WG1184455
n-Hexane	U			0.00125	0.00589	1	10/22/2018 15:59	WG1184455
Iodomethane	U			0.00713	0.0147	1	10/22/2018 15:59	WG1184455
Isopropylbenzene	U			0.00102	0.00294	1	10/22/2018 15:59	WG1184455
p-Isopropyltoluene	U			0.00274	0.00589	1	10/22/2018 15:59	WG1184455
2-Butanone (MEK)	0.0207	J	J	0.0147	0.0294	1	10/22/2018 15:59	WG1184455
Methylene Chloride	U			0.00782	0.0294	1	10/22/2018 15:59	WG1184455
4-Methyl-2-pentanone (MIBK)	U			0.0118	0.0294	1	10/22/2018 15:59	WG1184455

JC 11/14/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000348	0.00118	1	10/22/2018 15:59	WG1184455
Naphthalene	0.00764 J	J	0.00368	0.0147	1	10/22/2018 15:59	WG1184455
n-Propylbenzene	U		0.00139	0.00589	1	10/22/2018 15:59	WG1184455
Styrene	U		0.00322	0.0147	1	10/22/2018 15:59	WG1184455
1,1,1,2-Tetrachloroethane	U U	J4	0.000589	0.00294	1	10/22/2018 15:59	WG1184455
1,1,2,2-Tetrachloroethane	U		0.0368	0.236	80	10/24/2018 01:06	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000795	0.00294	1	10/22/2018 15:59	WG1184455
Tetrachloroethene	14.4 J	J0	0.0660	0.236	80	10/24/2018 01:06	WG1185221
Toluene	0.00858		0.00147	0.00589	1	10/22/2018 15:59	WG1184455
1,2,3-Trichlorobenzene	U		0.0589	0.236	80	10/24/2018 01:06	WG1185221
1,2,4-Trichlorobenzene	U		0.00568	0.0147	1	10/22/2018 15:59	WG1184455
1,1,1-Trichloroethane	U		0.000324	0.00294	1	10/22/2018 15:59	WG1184455
1,1,2-Trichloroethane	U		0.00104	0.00294	1	10/22/2018 15:59	WG1184455
Trichloroethene	0.0142		0.000471	0.00118	1	10/22/2018 15:59	WG1184455
Trichlorofluoromethane	U		0.000589	0.00294	1	10/22/2018 15:59	WG1184455
1,2,3-Trichloropropane	U		0.00601	0.0147	1	10/22/2018 15:59	WG1184455
1,2,4-Trimethylbenzene	0.00354 J	J	0.00137	0.00589	1	10/22/2018 15:59	WG1184455
1,2,3-Trimethylbenzene	U		0.00135	0.00589	1	10/22/2018 15:59	WG1184455
1,3,5-Trimethylbenzene	U		0.00127	0.00589	1	10/22/2018 15:59	WG1184455
Vinyl acetate	U		0.00415	0.0147	1	10/22/2018 15:59	WG1184455
Vinyl chloride	U		0.000805	0.00294	1	10/22/2018 15:59	WG1184455
Xylenes, Total	0.00775		0.00563	0.00766	1	10/22/2018 15:59	WG1184455
(S) Toluene-d8	*115*			*75.0-131*		*10/22/2018 15:59*	WG1184455
(S) Toluene-d8	*97.2*			*75.0-131*		*10/24/2018 01:06*	WG1185221
(S) Dibromofluoromethane	*88.8*			*65.0-129*		*10/22/2018 15:59*	WG1184455
(S) Dibromofluoromethane	*120*			*65.0-129*		*10/24/2018 01:06*	WG1185221
(S) 4-Bromofluorobenzene	*93.4*			*67.0-138*		*10/22/2018 15:59*	WG1184455
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*10/24/2018 01:06*	WG1185221

Sample Narrative:

L1036155-26 WG1185221, WG1184455: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036155-26 WG1185221, WG1184455: Not all compounds reportable at lower dilution.

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.9		1	10/24/2018 09:40	WG1184862

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0214 J	J	0.0151	0.0275	1	10/23/2018 16:01	WG1185221
Acrylonitrile	U		0.00209	0.0137	1	10/22/2018 16:17	WG1184455
Benzene	U		0.000440	0.00110	1	10/22/2018 16:17	WG1184455
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 16:17	WG1184455
Bromodichloromethane	U		0.000867	0.00275	1	10/22/2018 16:17	WG1184455
Bromochloromethane	U		0.00124	0.00550	1	10/22/2018 16:17	WG1184455
Bromoform	U		0.00658	0.0275	1	10/22/2018 16:17	WG1184455
Bromomethane	U		0.00407	0.0137	1	10/22/2018 16:17	WG1184455
n-Butylbenzene	U		0.00422	0.0137	1	10/22/2018 16:17	WG1184455
sec-Butylbenzene	U		0.00278	0.0137	1	10/22/2018 16:17	WG1184455
tert-Butylbenzene	U		0.00170	0.00550	1	10/22/2018 16:17	WG1184455
Carbon disulfide	U		0.00447	0.0137	1	10/22/2018 16:17	WG1184455
Carbon tetrachloride	U		0.00119	0.00550	1	10/22/2018 16:17	WG1184455
Chlorobenzene	U		0.000630	0.00275	1	10/22/2018 16:17	WG1184455
Chlorodibromomethane	U		0.000495	0.00275	1	10/22/2018 16:17	WG1184455
Chloroethane	U		0.00119	0.00550	1	10/22/2018 16:17	WG1184455
Chloroform	U		0.000456	0.00275	1	10/22/2018 16:17	WG1184455
Chloromethane	U		0.00153	0.0137	1	10/22/2018 16:17	WG1184455
2-Chlorotoluene	U		0.00101	0.00275	1	10/22/2018 16:17	WG1184455
4-Chlorotoluene	U		0.00124	0.00550	1	10/22/2018 16:17	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00561	0.0275	1	10/22/2018 16:17	WG1184455
1,2-Dibromoethane	U		0.000577	0.00275	1	10/22/2018 16:17	WG1184455
Dibromomethane	U		0.00110	0.00550	1	10/22/2018 16:17	WG1184455
1,2-Dichlorobenzene	U		0.00159	0.00550	1	10/22/2018 16:17	WG1184455
1,3-Dichlorobenzene	U		0.00187	0.00550	1	10/22/2018 16:17	WG1184455
1,4-Dichlorobenzene	U		0.00217	0.00550	1	10/22/2018 16:17	WG1184455
Dichlorodifluoromethane	U		0.000900	0.00275	1	10/23/2018 16:01	WG1185221
1,1-Dichloroethane	U		0.000632	0.00275	1	10/22/2018 16:17	WG1184455
1,2-Dichloroethane	U		0.000522	0.00275	1	10/22/2018 16:17	WG1184455
1,1-Dichloroethene	U		0.000550	0.00275	1	10/22/2018 16:17	WG1184455
cis-1,2-Dichloroethene	0.00981		0.000759	0.00275	1	10/23/2018 16:01	WG1185221
trans-1,2-Dichloroethene	U		0.00157	0.00550	1	10/22/2018 16:17	WG1184455
1,2-Dichloropropane	U		0.00140	0.00550	1	10/22/2018 16:17	WG1184455
1,1-Dichloropropene	U		0.000770	0.00275	1	10/22/2018 16:17	WG1184455
1,3-Dichloropropane	U		0.00192	0.00550	1	10/22/2018 16:17	WG1184455
cis-1,3-Dichloropropene	U		0.000746	0.00275	1	10/22/2018 16:17	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00168	0.00550	1	10/22/2018 16:17	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00154	0.00550	1	10/22/2018 16:17	WG1184455
2,2-Dichloropropane	U		0.000872	0.00275	1	10/22/2018 16:17	WG1184455
Di-isopropyl ether	U		0.000385	0.00110	1	10/22/2018 16:17	WG1184455
Ethylbenzene	U		0.000583	0.00275	1	10/22/2018 16:17	WG1184455
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	10/22/2018 16:17	WG1184455
2-Hexanone	U		0.0110	0.0275	1	10/22/2018 16:17	WG1184455
n-Hexane	U		0.00117	0.00550	1	10/23/2018 16:01	WG1185221
Iodomethane	U		0.00665	0.0137	1	10/22/2018 16:17	WG1184455
Isopropylbenzene	U		0.000949	0.00275	1	10/22/2018 16:17	WG1184455
p-Isopropyltoluene	U		0.00256	0.00550	1	10/22/2018 16:17	WG1184455
2-Butanone (MEK)	U		0.0137	0.0275	1	10/22/2018 16:17	WG1184455
Methylene Chloride	U		0.00730	0.0275	1	10/22/2018 16:17	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/22/2018 16:17	WG1184455

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	10/22/2018 16:17	WG1184455
Naphthalene	U		0.00343	0.0137	1	10/22/2018 16:17	WG1184455
n-Propylbenzene	U		0.00130	0.00550	1	10/22/2018 16:17	WG1184455
Styrene	U		0.00300	0.0137	1	10/22/2018 16:17	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000550	0.00275	1	10/22/2018 16:17	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	10/23/2018 16:01	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000742	0.00275	1	10/22/2018 16:17	WG1184455
Tetrachloroethene	0.612		0.000770	0.00275	1	10/24/2018 23:43	WG1185845
Toluene	U		0.00137	0.00550	1	10/22/2018 16:17	WG1184455
1,2,3-Trichlorobenzene	U		0.000687	0.00275	1	10/23/2018 16:01	WG1185221
1,2,4-Trichlorobenzene	U		0.00530	0.0137	1	10/22/2018 16:17	WG1184455
1,1,1-Trichloroethane	U		0.000302	0.00275	1	10/22/2018 16:17	WG1184455
1,1,2-Trichloroethane	U		0.000971	0.00275	1	10/22/2018 16:17	WG1184455
Trichloroethene	0.00725		0.000440	0.00110	1	10/22/2018 16:17	WG1184455
Trichlorofluoromethane	U		0.000550	0.00275	1	10/22/2018 16:17	WG1184455
1,2,3-Trichloropropane	U		0.00561	0.0137	1	10/22/2018 16:17	WG1184455
1,2,4-Trimethylbenzene	U		0.00128	0.00550	1	10/22/2018 16:17	WG1184455
1,2,3-Trimethylbenzene	U		0.00126	0.00550	1	10/22/2018 16:17	WG1184455
1,3,5-Trimethylbenzene	U		0.00119	0.00550	1	10/22/2018 16:17	WG1184455
Vinyl acetate	U		0.00387	0.0137	1	10/22/2018 16:17	WG1184455
Vinyl chloride	U		0.000751	0.00275	1	10/22/2018 16:17	WG1184455
Xylenes, Total	U		0.00526	0.00715	1	10/22/2018 16:17	WG1184455
(S) Toluene-d8	*107*			*75.0-131*		*10/22/2018 16:17*	WG1184455
(S) Toluene-d8	*101*			*75.0-131*		*10/23/2018 16:01*	WG1185221
(S) Toluene-d8	*107*			*75.0-131*		*10/24/2018 23:43*	WG1185845
(S) Dibromofluoromethane	*87.3*			*65.0-129*		*10/22/2018 16:17*	WG1184455
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/23/2018 16:01*	WG1185221
(S) Dibromofluoromethane	*97.8*			*65.0-129*		*10/24/2018 23:43*	WG1185845
(S) 4-Bromofluorobenzene	*91.7*			*67.0-138*		*10/22/2018 16:17*	WG1184455
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/23/2018 16:01*	WG1185221
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/24/2018 23:43*	WG1185845

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.8		1	10/24/2018 09:40	WG1184862

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0153	0.0278	1	10/23/2018 16:21	WG1185221
Acrylonitrile	U			0.00212	0.0139	1	10/22/2018 16:36	WG1184455
Benzene	U			0.000445	0.00111	1	10/22/2018 16:36	WG1184455
Bromobenzene	U			0.00117	0.0139	1	10/22/2018 16:36	WG1184455
Bromodichloromethane	U			0.000878	0.00278	1	10/22/2018 16:36	WG1184455
Bromochloromethane	U			0.00126	0.00557	1	10/22/2018 16:36	WG1184455
Bromoform	U			0.00666	0.0278	1	10/22/2018 16:36	WG1184455
Bromomethane	U			0.00412	0.0139	1	10/22/2018 16:36	WG1184455
n-Butylbenzene	U			0.00428	0.0139	1	10/22/2018 16:36	WG1184455
sec-Butylbenzene	U			0.00282	0.0139	1	10/22/2018 16:36	WG1184455
tert-Butylbenzene	U			0.00173	0.00557	1	10/22/2018 16:36	WG1184455
Carbon disulfide	U			0.00452	0.0139	1	10/22/2018 16:36	WG1184455
Carbon tetrachloride	U			0.00120	0.00557	1	10/22/2018 16:36	WG1184455
Chlorobenzene	U			0.000638	0.00278	1	10/22/2018 16:36	WG1184455
Chlorodibromomethane	U			0.000501	0.00278	1	10/22/2018 16:36	WG1184455
Chloroethane	U			0.00120	0.00557	1	10/22/2018 16:36	WG1184455
Chloroform	0.00103	U	B J	0.000462	0.00278	1	10/22/2018 16:36	WG1184455
Chloromethane	U			0.00155	0.0139	1	10/22/2018 16:36	WG1184455
2-Chlorotoluene	U			0.00102	0.00278	1	10/22/2018 16:36	WG1184455
4-Chlorotoluene	U			0.00126	0.00557	1	10/22/2018 16:36	WG1184455
1,2-Dibromo-3-Chloropropane	U			0.00568	0.0278	1	10/22/2018 16:36	WG1184455
1,2-Dibromoethane	U			0.000585	0.00278	1	10/22/2018 16:36	WG1184455
Dibromomethane	U			0.00111	0.00557	1	10/22/2018 16:36	WG1184455
1,2-Dichlorobenzene	U			0.00161	0.00557	1	10/22/2018 16:36	WG1184455
1,3-Dichlorobenzene	U			0.00189	0.00557	1	10/22/2018 16:36	WG1184455
1,4-Dichlorobenzene	U			0.00219	0.00557	1	10/22/2018 16:36	WG1184455
Dichlorodifluoromethane	U			0.000911	0.00278	1	10/23/2018 16:21	WG1185221
1,1-Dichloroethane	U			0.000640	0.00278	1	10/22/2018 16:36	WG1184455
1,2-Dichloroethane	U			0.000529	0.00278	1	10/22/2018 16:36	WG1184455
1,1-Dichloroethene	U			0.000557	0.00278	1	10/22/2018 16:36	WG1184455
cis-1,2-Dichloroethene	0.00190	J	J	0.000768	0.00278	1	10/23/2018 16:21	WG1185221
trans-1,2-Dichloroethene	U			0.00159	0.00557	1	10/22/2018 16:36	WG1184455
1,2-Dichloropropane	U			0.00141	0.00557	1	10/22/2018 16:36	WG1184455
1,1-Dichloropropene	U			0.000780	0.00278	1	10/22/2018 16:36	WG1184455
1,3-Dichloropropane	U			0.00195	0.00557	1	10/22/2018 16:36	WG1184455
cis-1,3-Dichloropropene	U			0.000755	0.00278	1	10/22/2018 16:36	WG1184455
trans-1,3-Dichloropropene	U	U	J4	0.00170	0.00557	1	10/22/2018 16:36	WG1184455
trans-1,4-Dichloro-2-butene	U			0.00156	0.00557	1	10/22/2018 16:36	WG1184455
2,2-Dichloropropane	U			0.000883	0.00278	1	10/22/2018 16:36	WG1184455
Di-isopropyl ether	U			0.000390	0.00111	1	10/22/2018 16:36	WG1184455
Ethylbenzene	U			0.000590	0.00278	1	10/22/2018 16:36	WG1184455
Hexachloro-1,3-butadiene	U			0.0141	0.0278	1	10/22/2018 16:36	WG1184455
2-Hexanone	U			0.0111	0.0278	1	10/22/2018 16:36	WG1184455
n-Hexane	U			0.00118	0.00557	1	10/22/2018 16:36	WG1184455
Iodomethane	U			0.00674	0.0139	1	10/22/2018 16:36	WG1184455
Isopropylbenzene	U			0.000961	0.00278	1	10/22/2018 16:36	WG1184455
p-Isopropyltoluene	U			0.00259	0.00557	1	10/22/2018 16:36	WG1184455
2-Butanone (MEK)	0.0232	J	J	0.0139	0.0278	1	10/22/2018 16:36	WG1184455
Methylene Chloride	U			0.00739	0.0278	1	10/22/2018 16:36	WG1184455
4-Methyl-2-pentanone (MIBK)	U			0.0111	0.0278	1	10/22/2018 16:36	WG1184455

JC 11/14/18

B-262-10

Collected date/time: 10/17/18 13:45

SAMPLE RESULTS - 28

L1036155

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00111	1	10/22/2018 16:36	WG1184455
Naphthalene	U		0.00347	0.0139	1	10/22/2018 16:36	WG1184455
n-Propylbenzene	U		0.00131	0.00557	1	10/22/2018 16:36	WG1184455
Styrene	U		0.00304	0.0139	1	10/22/2018 16:36	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000557	0.00278	1	10/22/2018 16:36	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	10/23/2018 16:21	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000752	0.00278	1	10/22/2018 16:36	WG1184455
Tetrachloroethene	0.495		0.000780	0.00278	1	10/22/2018 16:36	WG1184455
Toluene	U		0.00139	0.00557	1	10/22/2018 16:36	WG1184455
1,2,3-Trichlorobenzene	U		0.000696	0.00278	1	10/23/2018 16:21	WG1185221
1,2,4-Trichlorobenzene	U		0.00537	0.0139	1	10/22/2018 16:36	WG1184455
1,1,1-Trichloroethane	U		0.000306	0.00278	1	10/22/2018 16:36	WG1184455
1,1,2-Trichloroethane	U		0.000983	0.00278	1	10/22/2018 16:36	WG1184455
Trichloroethene	0.00390		0.000445	0.00111	1	10/22/2018 16:36	WG1184455
Trichlorofluoromethane	U		0.000557	0.00278	1	10/22/2018 16:36	WG1184455
1,2,3-Trichloropropane	U		0.00568	0.0139	1	10/22/2018 16:36	WG1184455
1,2,4-Trimethylbenzene	U		0.00129	0.00557	1	10/22/2018 16:36	WG1184455
1,2,3-Trimethylbenzene	U		0.00128	0.00557	1	10/22/2018 16:36	WG1184455
1,3,5-Trimethylbenzene	U		0.00120	0.00557	1	10/22/2018 16:36	WG1184455
Vinyl acetate	U		0.00392	0.0139	1	10/22/2018 16:36	WG1184455
Vinyl chloride	U		0.000761	0.00278	1	10/22/2018 16:36	WG1184455
Xylenes, Total	U		0.00532	0.00724	1	10/22/2018 16:36	WG1184455
(S) Toluene-d8	*107*			*75.0-131*		*10/22/2018 16:36*	WG1184455
(S) Toluene-d8	*99.1*			*75.0-131*		*10/23/2018 16:21*	WG1185221
(S) Dibromofluoromethane	*89.0*			*65.0-129*		*10/22/2018 16:36*	WG1184455
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/23/2018 16:21*	WG1185221
(S) 4-Bromofluorobenzene	*93.5*			*67.0-138*		*10/22/2018 16:36*	WG1184455
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/23/2018 16:21*	WG1185221

JC 11/14/18

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.1		1	10/24/2018 09:40	WG1184862

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0274	1	10/23/2018 16:41	WG1185221
Acrylonitrile	U		0.00209	0.0137	1	10/22/2018 16:54	WG1184455
Benzene	U		0.000439	0.00110	1	10/22/2018 16:54	WG1184455
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 16:54	WG1184455
Bromodichloromethane	U		0.000865	0.00274	1	10/22/2018 16:54	WG1184455
Bromochloromethane	U		0.00124	0.00549	1	10/22/2018 16:54	WG1184455
Bromoform	U		0.00656	0.0274	1	10/22/2018 16:54	WG1184455
Bromomethane	U		0.00406	0.0137	1	10/22/2018 16:54	WG1184455
n-Butylbenzene	U		0.00421	0.0137	1	10/22/2018 16:54	WG1184455
sec-Butylbenzene	U		0.00278	0.0137	1	10/22/2018 16:54	WG1184455
tert-Butylbenzene	U		0.00170	0.00549	1	10/22/2018 16:54	WG1184455
Carbon disulfide	U		0.00446	0.0137	1	10/22/2018 16:54	WG1184455
Carbon tetrachloride	U		0.00119	0.00549	1	10/22/2018 16:54	WG1184455
Chlorobenzene	U		0.000629	0.00274	1	10/22/2018 16:54	WG1184455
Chlorodibromomethane	U		0.000494	0.00274	1	10/22/2018 16:54	WG1184455
Chloroethane	U		0.00119	0.00549	1	10/22/2018 16:54	WG1184455
Chloroform	U		0.000455	0.00274	1	10/22/2018 16:54	WG1184455
Chloromethane	U		0.00153	0.0137	1	10/22/2018 16:54	WG1184455
2-Chlorotoluene	U		0.00101	0.00274	1	10/22/2018 16:54	WG1184455
4-Chlorotoluene	U		0.00124	0.00549	1	10/22/2018 16:54	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00560	0.0274	1	10/22/2018 16:54	WG1184455
1,2-Dibromoethane	U		0.000576	0.00274	1	10/22/2018 16:54	WG1184455
Dibromomethane	U		0.00110	0.00549	1	10/22/2018 16:54	WG1184455
1,2-Dichlorobenzene	U		0.00159	0.00549	1	10/22/2018 16:54	WG1184455
1,3-Dichlorobenzene	U		0.00187	0.00549	1	10/22/2018 16:54	WG1184455
1,4-Dichlorobenzene	U		0.00216	0.00549	1	10/22/2018 16:54	WG1184455
Dichlorodifluoromethane	U		0.000898	0.00274	1	10/23/2018 16:41	WG1185221
1,1-Dichloroethane	U		0.000631	0.00274	1	10/22/2018 16:54	WG1184455
1,2-Dichloroethane	U		0.000521	0.00274	1	10/22/2018 16:54	WG1184455
1,1-Dichloroethene	U		0.000549	0.00274	1	10/22/2018 16:54	WG1184455
cis-1,2-Dichloroethene	0.00332		0.000757	0.00274	1	10/23/2018 16:41	WG1185221
trans-1,2-Dichloroethene	U		0.00157	0.00549	1	10/22/2018 16:54	WG1184455
1,2-Dichloropropane	U		0.00139	0.00549	1	10/22/2018 16:54	WG1184455
1,1-Dichloropropene	U		0.000768	0.00274	1	10/22/2018 16:54	WG1184455
1,3-Dichloropropane	U		0.00192	0.00549	1	10/22/2018 16:54	WG1184455
cis-1,3-Dichloropropene	U		0.000744	0.00274	1	10/22/2018 16:54	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00168	0.00549	1	10/22/2018 16:54	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	10/22/2018 16:54	WG1184455
2,2-Dichloropropane	U		0.000870	0.00274	1	10/22/2018 16:54	WG1184455
Di-isopropyl ether	U		0.000384	0.00110	1	10/22/2018 16:54	WG1184455
Ethylbenzene	U		0.000582	0.00274	1	10/22/2018 16:54	WG1184455
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	10/22/2018 16:54	WG1184455
2-Hexanone	U		0.0110	0.0274	1	10/22/2018 16:54	WG1184455
n-Hexane	U		0.00116	0.00549	1	10/23/2018 16:41	WG1185221
Iodomethane	U		0.00664	0.0137	1	10/22/2018 16:54	WG1184455
Isopropylbenzene	U		0.000947	0.00274	1	10/22/2018 16:54	WG1184455
p-Isopropyltoluene	U		0.00256	0.00549	1	10/22/2018 16:54	WG1184455
2-Butanone (MEK)	0.0236 J	J	0.0137	0.0274	1	10/22/2018 16:54	WG1184455
Methylene Chloride	U		0.00729	0.0274	1	10/22/2018 16:54	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	10/22/2018 16:54	WG1184455

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B-262-15

Collected date/time: 10/17/18 14:00

SAMPLE RESULTS - 29

L1036155

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	10/22/2018 16:54	WG1184455
Naphthalene	U		0.00342	0.0137	1	10/22/2018 16:54	WG1184455
n-Propylbenzene	U		0.00130	0.00549	1	10/22/2018 16:54	WG1184455
Styrene	U		0.00300	0.0137	1	10/22/2018 16:54	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000549	0.00274	1	10/22/2018 16:54	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000428	0.00274	1	10/23/2018 16:41	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000741	0.00274	1	10/22/2018 16:54	WG1184455
Tetrachloroethene	1.81		0.000768	0.00274	1	10/22/2018 16:54	WG1184455
Toluene	U		0.00137	0.00549	1	10/22/2018 16:54	WG1184455
1,2,3-Trichlorobenzene	U		0.000686	0.00274	1	10/23/2018 16:41	WG1185221
1,2,4-Trichlorobenzene	U		0.00529	0.0137	1	10/22/2018 16:54	WG1184455
1,1,1-Trichloroethane	U		0.000302	0.00274	1	10/22/2018 16:54	WG1184455
1,1,2-Trichloroethane	U		0.000969	0.00274	1	10/22/2018 16:54	WG1184455
Trichloroethene	0.0301		0.000439	0.00110	1	10/22/2018 16:54	WG1184455
Trichlorofluoromethane	U		0.000549	0.00274	1	10/22/2018 16:54	WG1184455
1,2,3-Trichloropropane	U		0.00560	0.0137	1	10/22/2018 16:54	WG1184455
1,2,4-Trimethylbenzene	U		0.00127	0.00549	1	10/22/2018 16:54	WG1184455
1,2,3-Trimethylbenzene	U		0.00126	0.00549	1	10/22/2018 16:54	WG1184455
1,3,5-Trimethylbenzene	U		0.00119	0.00549	1	10/22/2018 16:54	WG1184455
Vinyl acetate	U		0.00386	0.0137	1	10/22/2018 16:54	WG1184455
Vinyl chloride	U		0.000750	0.00274	1	10/22/2018 16:54	WG1184455
Xylenes, Total	U		0.00525	0.00713	1	10/22/2018 16:54	WG1184455
(S) Toluene-d8	*106*			*75.0-131*		*10/22/2018 16:54*	WG1184455
(S) Toluene-d8	*97.8*			*75.0-131*		*10/23/2018 16:41*	WG1185221
(S) Dibromofluoromethane	*90.1*			*65.0-129*		*10/22/2018 16:54*	WG1184455
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/23/2018 16:41*	WG1185221
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*		*10/22/2018 16:54*	WG1184455
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/23/2018 16:41*	WG1185221

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.9		1	10/24/2018 09:40	WG1184862

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.161	0.294	10	10/24/2018 00:06	WG1185221
Acrylonitrile	U		0.00224	0.0147	1	10/22/2018 17:13	WG1184455
Benzene	U		0.000471	0.00118	1	10/22/2018 17:13	WG1184455
Bromobenzene	U		0.00124	0.0147	1	10/22/2018 17:13	WG1184455
Bromodichloromethane	U		0.000928	0.00294	1	10/22/2018 17:13	WG1184455
Bromochloromethane	U		0.00133	0.00589	1	10/22/2018 17:13	WG1184455
Bromoform	U		0.00704	0.0294	1	10/22/2018 17:13	WG1184455
Bromomethane	U		0.00436	0.0147	1	10/22/2018 17:13	WG1184455
n-Butylbenzene	U		0.00452	0.0147	1	10/22/2018 17:13	WG1184455
sec-Butylbenzene	U		0.00298	0.0147	1	10/22/2018 17:13	WG1184455
tert-Butylbenzene	U		0.00182	0.00589	1	10/22/2018 17:13	WG1184455
Carbon disulfide	U		0.00478	0.0147	1	10/22/2018 17:13	WG1184455
Carbon tetrachloride	U		0.00127	0.00589	1	10/22/2018 17:13	WG1184455
Chlorobenzene	U		0.000675	0.00294	1	10/22/2018 17:13	WG1184455
Chlorodibromomethane	U		0.000530	0.00294	1	10/22/2018 17:13	WG1184455
Chloroethane	U		0.00127	0.00589	1	10/22/2018 17:13	WG1184455
Chloroform	0.00116 U	B J	0.000489	0.00294	1	10/22/2018 17:13	WG1184455
Chloromethane	U		0.00164	0.0147	1	10/22/2018 17:13	WG1184455
2-Chlorotoluene	U		0.00108	0.00294	1	10/22/2018 17:13	WG1184455
4-Chlorotoluene	U		0.00133	0.00589	1	10/22/2018 17:13	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00600	0.0294	1	10/22/2018 17:13	WG1184455
1,2-Dibromoethane	U		0.000618	0.00294	1	10/22/2018 17:13	WG1184455
Dibromomethane	U		0.00118	0.00589	1	10/22/2018 17:13	WG1184455
1,2-Dichlorobenzene	U		0.00171	0.00589	1	10/22/2018 17:13	WG1184455
1,3-Dichlorobenzene	U		0.00200	0.00589	1	10/22/2018 17:13	WG1184455
1,4-Dichlorobenzene	U		0.00232	0.00589	1	10/22/2018 17:13	WG1184455
Dichlorodifluoromethane	U		0.00963	0.0294	10	10/24/2018 00:06	WG1185221
1,1-Dichloroethane	U		0.000677	0.00294	1	10/22/2018 17:13	WG1184455
1,2-Dichloroethane	U		0.000559	0.00294	1	10/22/2018 17:13	WG1184455
1,1-Dichloroethene	U		0.000589	0.00294	1	10/22/2018 17:13	WG1184455
cis-1,2-Dichloroethene	0.0429		0.00812	0.0294	10	10/24/2018 00:06	WG1185221
trans-1,2-Dichloroethene	U		0.00168	0.00589	1	10/22/2018 17:13	WG1184455
1,2-Dichloropropane	U		0.00150	0.00589	1	10/22/2018 17:13	WG1184455
1,1-Dichloropropene	U		0.000824	0.00294	1	10/22/2018 17:13	WG1184455
1,3-Dichloropropane	U		0.00206	0.00589	1	10/22/2018 17:13	WG1184455
cis-1,3-Dichloropropene	U		0.000798	0.00294	1	10/22/2018 17:13	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00180	0.00589	1	10/22/2018 17:13	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00165	0.00589	1	10/22/2018 17:13	WG1184455
2,2-Dichloropropane	U		0.000934	0.00294	1	10/22/2018 17:13	WG1184455
Di-isopropyl ether	U		0.000412	0.00118	1	10/22/2018 17:13	WG1184455
Ethylbenzene	U		0.000624	0.00294	1	10/22/2018 17:13	WG1184455
Hexachloro-1,3-butadiene	U		0.0150	0.0294	1	10/22/2018 17:13	WG1184455
2-Hexanone	U		0.0118	0.0294	1	10/22/2018 17:13	WG1184455
n-Hexane	U		0.00125	0.00589	1	10/22/2018 17:13	WG1184455
Iodomethane	U		0.00712	0.0147	1	10/22/2018 17:13	WG1184455
Isopropylbenzene	U		0.00102	0.00294	1	10/22/2018 17:13	WG1184455
p-Isopropyltoluene	U		0.00274	0.00589	1	10/22/2018 17:13	WG1184455
2-Butanone (MEK)	U		0.0147	0.0294	1	10/22/2018 17:13	WG1184455
Methylene Chloride	U		0.00782	0.0294	1	10/22/2018 17:13	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0294	1	10/22/2018 17:13	WG1184455

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000347	0.00118	1	10/22/2018 17:13	WG1184455
Naphthalene	U		0.00367	0.0147	1	10/22/2018 17:13	WG1184455
n-Propylbenzene	U		0.00139	0.00589	1	10/22/2018 17:13	WG1184455
Styrene	U		0.00321	0.0147	1	10/22/2018 17:13	WG1184455
1,1,1,2-Tetrachloroethane	U U	J4	0.000589	0.00294	1	10/22/2018 17:13	WG1184455
1,1,2,2-Tetrachloroethane	U		0.00459	0.0294	10	10/24/2018 00:06	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000795	0.00294	1	10/22/2018 17:13	WG1184455
Tetrachloroethene	2.05 J	J0	0.00824	0.0294	10	10/24/2018 00:06	WG1185221
Toluene	U		0.00147	0.00589	1	10/22/2018 17:13	WG1184455
1,2,3-Trichlorobenzene	U		0.00736	0.0294	10	10/24/2018 00:06	WG1185221
1,2,4-Trichlorobenzene	U		0.00567	0.0147	1	10/22/2018 17:13	WG1184455
1,1,1-Trichloroethane	U		0.000324	0.00294	1	10/22/2018 17:13	WG1184455
1,1,2-Trichloroethane	U		0.00104	0.00294	1	10/22/2018 17:13	WG1184455
Trichloroethene	0.0634		0.000471	0.00118	1	10/22/2018 17:13	WG1184455
Trichlorofluoromethane	U		0.000589	0.00294	1	10/22/2018 17:13	WG1184455
1,2,3-Trichloropropane	U		0.00600	0.0147	1	10/22/2018 17:13	WG1184455
1,2,4-Trimethylbenzene	U		0.00137	0.00589	1	10/22/2018 17:13	WG1184455
1,2,3-Trimethylbenzene	U		0.00135	0.00589	1	10/22/2018 17:13	WG1184455
1,3,5-Trimethylbenzene	U		0.00127	0.00589	1	10/22/2018 17:13	WG1184455
Vinyl acetate	U		0.00414	0.0147	1	10/22/2018 17:13	WG1184455
Vinyl chloride	U		0.000804	0.00294	1	10/22/2018 17:13	WG1184455
Xylenes, Total	U		0.00563	0.00765	1	10/22/2018 17:13	WG1184455
(S) Toluene-d8	*108*			*75.0-131*		*10/22/2018 17:13*	WG1184455
(S) Toluene-d8	*98.1*			*75.0-131*		*10/24/2018 00:06*	WG1185221
(S) Dibromofluoromethane	*89.0*			*65.0-129*		*10/22/2018 17:13*	WG1184455
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/24/2018 00:06*	WG1185221
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*		*10/22/2018 17:13*	WG1184455
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*10/24/2018 00:06*	WG1185221

Sample Narrative:

L1036155-30 WG1185221, WG1184455: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036155-30 WG1185221, WG1184455: Not all compounds reportable at lower dilution.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	10/19/2018 11:37	WG1183421
Acrylonitrile	U		0.873	5.00	1	10/19/2018 11:37	WG1183421
Benzene	U		0.0896	0.500	1	10/19/2018 11:37	WG1183421
Bromobenzene	U		0.133	0.500	1	10/19/2018 11:37	WG1183421
Bromodichloromethane	U		0.0800	0.500	1	10/19/2018 11:37	WG1183421
Bromochloromethane	U		0.145	0.500	1	10/19/2018 11:37	WG1183421
Bromoform	U		0.186	0.500	1	10/19/2018 11:37	WG1183421
Bromomethane	U		0.157	2.50	1	10/19/2018 11:37	WG1183421
n-Butylbenzene	U		0.143	0.500	1	10/19/2018 11:37	WG1183421
sec-Butylbenzene	U		0.134	0.500	1	10/19/2018 11:37	WG1183421
tert-Butylbenzene	U		0.183	0.500	1	10/19/2018 11:37	WG1183421
Carbon disulfide	U		0.101	0.500	1	10/19/2018 11:37	WG1183421
Carbon tetrachloride	U		0.159	0.500	1	10/19/2018 11:37	WG1183421
Chlorobenzene	U		0.140	0.500	1	10/19/2018 11:37	WG1183421
Chlorodibromomethane	U		0.128	0.500	1	10/19/2018 11:37	WG1183421
Chloroethane	U		0.141	2.50	1	10/19/2018 11:37	WG1183421
Chloroform	U		0.0860	0.500	1	10/19/2018 11:37	WG1183421
Chloromethane	U		0.153	1.25	1	10/19/2018 11:37	WG1183421
2-Chlorotoluene	U		0.111	0.500	1	10/19/2018 11:37	WG1183421
4-Chlorotoluene	U		0.0972	0.500	1	10/19/2018 11:37	WG1183421
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/19/2018 11:37	WG1183421
1,2-Dibromoethane	U		0.193	0.500	1	10/19/2018 11:37	WG1183421
Dibromomethane	U		0.117	0.500	1	10/19/2018 11:37	WG1183421
1,2-Dichlorobenzene	U		0.101	0.500	1	10/19/2018 11:37	WG1183421
1,3-Dichlorobenzene	U		0.130	0.500	1	10/19/2018 11:37	WG1183421
1,4-Dichlorobenzene	U		0.121	0.500	1	10/19/2018 11:37	WG1183421
Dichlorodifluoromethane	U		0.127	2.50	1	10/19/2018 11:37	WG1183421
1,1-Dichloroethane	U		0.114	0.500	1	10/19/2018 11:37	WG1183421
1,2-Dichloroethane	U		0.108	0.500	1	10/19/2018 11:37	WG1183421
1,1-Dichloroethene	U		0.188	0.500	1	10/19/2018 11:37	WG1183421
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/19/2018 11:37	WG1183421
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/19/2018 11:37	WG1183421
1,2-Dichloropropane	U		0.190	0.500	1	10/19/2018 11:37	WG1183421
1,1-Dichloropropene	U		0.128	0.500	1	10/19/2018 11:37	WG1183421
1,3-Dichloropropane	U		0.147	1.00	1	10/19/2018 11:37	WG1183421
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/19/2018 11:37	WG1183421
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/19/2018 11:37	WG1183421
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/19/2018 11:37	WG1183421
2,2-Dichloropropane	U	J4	0.0929	0.500	1	10/19/2018 11:37	WG1183421
Di-isopropyl ether	U		0.0924	0.500	1	10/19/2018 11:37	WG1183421
Ethylbenzene	U		0.158	0.500	1	10/19/2018 11:37	WG1183421
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/19/2018 11:37	WG1183421
2-Hexanone	U		0.757	5.00	1	10/19/2018 11:37	WG1183421
n-Hexane	U		0.305	5.00	1	10/19/2018 11:37	WG1183421
Iodomethane	U		0.377	10.0	1	10/19/2018 11:37	WG1183421
Isopropylbenzene	U		0.126	0.500	1	10/19/2018 11:37	WG1183421
p-Isopropyltoluene	U		0.138	0.500	1	10/19/2018 11:37	WG1183421
2-Butanone (MEK)	U		1.28	5.00	1	10/19/2018 11:37	WG1183421
Methylene Chloride	U		1.07	2.50	1	10/19/2018 11:37	WG1183421
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/19/2018 11:37	WG1183421
Methyl tert-butyl ether	U		0.102	0.500	1	10/19/2018 11:37	WG1183421
Naphthalene	U		0.174	2.50	1	10/19/2018 11:37	WG1183421
n-Propylbenzene	U		0.162	0.500	1	10/19/2018 11:37	WG1183421
Styrene	U		0.117	0.500	1	10/19/2018 11:37	WG1183421
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/19/2018 11:37	WG1183421
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/19/2018 11:37	WG1183421

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/19/2018 11:37	WG1183421
Tetrachloroethene	U		0.199	0.500	1	10/19/2018 11:37	WG1183421
Toluene	U		0.412	0.500	1	10/19/2018 11:37	WG1183421
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/19/2018 11:37	WG1183421
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/19/2018 11:37	WG1183421
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/19/2018 11:37	WG1183421
1,1,2-Trichloroethane	U		0.186	0.500	1	10/19/2018 11:37	WG1183421
Trichloroethene	U		0.153	0.500	1	10/19/2018 11:37	WG1183421
Trichlorofluoromethane	U		0.130	2.50	1	10/19/2018 11:37	WG1183421
1,2,3-Trichloropropane	U		0.247	2.50	1	10/19/2018 11:37	WG1183421
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/19/2018 11:37	WG1183421
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/19/2018 11:37	WG1183421
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/19/2018 11:37	WG1183421
Vinyl acetate	U		0.645	5.00	1	10/19/2018 11:37	WG1183421
Vinyl chloride	U		0.118	0.500	1	10/19/2018 11:37	WG1183421
Xylenes, Total	U		0.316	1.50	1	10/19/2018 11:37	WG1183421
(S) Toluene-d8	*99.4*			*80.0-120*		*10/19/2018 11:37*	WG1183421
(S) Dibromofluoromethane	*103*			*75.0-120*		*10/19/2018 11:37*	WG1183421
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*10/19/2018 11:37*	WG1183421

JC 11/14/18

B-263-3
Collected date/time: 10/18/18 08:04

SAMPLE RESULTS - 01

L1036473

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.7		1	10/24/2018 12:49	WG1185667

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0168	0.0306	1	10/23/2018 17:01	WG1185221
Acrylonitrile	U		0.00233	0.0153	1	10/22/2018 18:08	WG1184455
Benzene	U		0.000490	0.00122	1	10/22/2018 18:08	WG1184455
Bromobenzene	U		0.00129	0.0153	1	10/22/2018 18:08	WG1184455
Bromodichloromethane	U		0.000965	0.00306	1	10/22/2018 18:08	WG1184455
Bromochloromethane	U		0.00138	0.00612	1	10/22/2018 18:08	WG1184455
Bromoform	U		0.00732	0.0306	1	10/22/2018 18:08	WG1184455
Bromomethane	U		0.00453	0.0153	1	10/22/2018 18:08	WG1184455
n-Butylbenzene	U		0.00470	0.0153	1	10/22/2018 18:08	WG1184455
sec-Butylbenzene	U		0.00310	0.0153	1	10/22/2018 18:08	WG1184455
tert-Butylbenzene	U		0.00190	0.00612	1	10/22/2018 18:08	WG1184455
Carbon disulfide	U		0.00497	0.0153	1	10/22/2018 18:08	WG1184455
Carbon tetrachloride	U		0.00132	0.00612	1	10/22/2018 18:08	WG1184455
Chlorobenzene	U		0.000702	0.00306	1	10/22/2018 18:08	WG1184455
Chlorodibromomethane	U		0.000551	0.00306	1	10/22/2018 18:08	WG1184455
Chloroethane	U		0.00132	0.00612	1	10/22/2018 18:08	WG1184455
Chloroform	0.00110 U	B J	0.000508	0.00306	1	10/22/2018 18:08	WG1184455
Chloromethane	U		0.00170	0.0153	1	10/22/2018 18:08	WG1184455
2-Chlorotoluene	U		0.00113	0.00306	1	10/22/2018 18:08	WG1184455
4-Chlorotoluene	U		0.00138	0.00612	1	10/22/2018 18:08	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00624	0.0306	1	10/22/2018 18:08	WG1184455
1,2-Dibromoethane	U		0.000643	0.00306	1	10/22/2018 18:08	WG1184455
Dibromomethane	U		0.00122	0.00612	1	10/22/2018 18:08	WG1184455
1,2-Dichlorobenzene	U		0.00178	0.00612	1	10/22/2018 18:08	WG1184455
1,3-Dichlorobenzene	U		0.00208	0.00612	1	10/22/2018 18:08	WG1184455
1,4-Dichlorobenzene	U		0.00241	0.00612	1	10/22/2018 18:08	WG1184455
Dichlorodifluoromethane	U		0.00100	0.00306	1	10/23/2018 17:01	WG1185221
1,1-Dichloroethane	U		0.000704	0.00306	1	10/22/2018 18:08	WG1184455
1,2-Dichloroethane	U		0.000582	0.00306	1	10/22/2018 18:08	WG1184455
1,1-Dichloroethene	U		0.000612	0.00306	1	10/22/2018 18:08	WG1184455
cis-1,2-Dichloroethene	0.00113 J	J	0.000845	0.00306	1	10/23/2018 17:01	WG1185221
trans-1,2-Dichloroethene	U		0.00175	0.00612	1	10/22/2018 18:08	WG1184455
1,2-Dichloropropane	U		0.00156	0.00612	1	10/22/2018 18:08	WG1184455
1,1-Dichloropropene	U		0.000857	0.00306	1	10/22/2018 18:08	WG1184455
1,3-Dichloropropane	U		0.00214	0.00612	1	10/22/2018 18:08	WG1184455
cis-1,3-Dichloropropene	U		0.000830	0.00306	1	10/22/2018 18:08	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00187	0.00612	1	10/22/2018 18:08	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00171	0.00612	1	10/22/2018 18:08	WG1184455
2,2-Dichloropropane	U		0.000971	0.00306	1	10/22/2018 18:08	WG1184455
Di-isopropyl ether	U		0.000429	0.00122	1	10/22/2018 18:08	WG1184455
Ethylbenzene	U		0.000649	0.00306	1	10/22/2018 18:08	WG1184455
Hexachloro-1,3-butadiene	U		0.0156	0.0306	1	10/22/2018 18:08	WG1184455
2-Hexanone	U		0.0122	0.0306	1	10/22/2018 18:08	WG1184455
n-Hexane	U		0.00130	0.00612	1	10/22/2018 18:08	WG1184455
Iodomethane	U		0.00741	0.0153	1	10/22/2018 18:08	WG1184455
Isopropylbenzene	U		0.00106	0.00306	1	10/22/2018 18:08	WG1184455
p-Isopropyltoluene	U		0.00285	0.00612	1	10/22/2018 18:08	WG1184455
2-Butanone (MEK)	0.0386		0.0153	0.0306	1	10/22/2018 18:08	WG1184455
Methylene Chloride	U		0.00813	0.0306	1	10/22/2018 18:08	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0306	1	10/22/2018 18:08	WG1184455

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000361	0.00122	1	10/22/2018 18:08	WG1184455
Naphthalene	U		0.00382	0.0153	1	10/22/2018 18:08	WG1184455
n-Propylbenzene	U		0.00144	0.00612	1	10/22/2018 18:08	WG1184455
Styrene	U		0.00334	0.0153	1	10/22/2018 18:08	WG1184455
1,1,1,2-Tetrachloroethane	U U	J4	0.000612	0.00306	1	10/22/2018 18:08	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000478	0.00306	1	10/23/2018 17:01	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000827	0.00306	1	10/22/2018 18:08	WG1184455
Tetrachloroethene	0.0143		0.000857	0.00306	1	10/25/2018 00:02	WG1185845
Toluene	U		0.00153	0.00612	1	10/22/2018 18:08	WG1184455
1,2,3-Trichlorobenzene	U		0.000765	0.00306	1	10/23/2018 17:01	WG1185221
1,2,4-Trichlorobenzene	U		0.00590	0.0153	1	10/22/2018 18:08	WG1184455
1,1,1-Trichloroethane	U		0.000337	0.00306	1	10/22/2018 18:08	WG1184455
1,1,2-Trichloroethane	U		0.00108	0.00306	1	10/22/2018 18:08	WG1184455
Trichloroethene	0.000626 J	J	0.000490	0.00122	1	10/22/2018 18:08	WG1184455
Trichlorofluoromethane	U		0.000612	0.00306	1	10/22/2018 18:08	WG1184455
1,2,3-Trichloropropane	U		0.00624	0.0153	1	10/22/2018 18:08	WG1184455
1,2,4-Trimethylbenzene	U		0.00142	0.00612	1	10/22/2018 18:08	WG1184455
1,2,3-Trimethylbenzene	U		0.00141	0.00612	1	10/22/2018 18:08	WG1184455
1,3,5-Trimethylbenzene	U		0.00132	0.00612	1	10/22/2018 18:08	WG1184455
Vinyl acetate	U		0.00431	0.0153	1	10/22/2018 18:08	WG1184455
Vinyl chloride	U		0.000836	0.00306	1	10/22/2018 18:08	WG1184455
Xylenes, Total	U		0.00585	0.00796	1	10/22/2018 18:08	WG1184455
(S) Toluene-d8	*105*			*75.0-131*		*10/22/2018 18:08*	WG1184455
(S) Toluene-d8	*98.1*			*75.0-131*		*10/23/2018 17:01*	WG1185221
(S) Toluene-d8	*102*			*75.0-131*		*10/25/2018 00:02*	WG1185845
(S) Dibromofluoromethane	*92.1*			*65.0-129*		*10/22/2018 18:08*	WG1184455
(S) Dibromofluoromethane	*115*			*65.0-129*		*10/23/2018 17:01*	WG1185221
(S) Dibromofluoromethane	*95.0*			*65.0-129*		*10/25/2018 00:02*	WG1185845
(S) 4-Bromofluorobenzene	*93.0*			*67.0-138*		*10/22/2018 18:08*	WG1184455
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/23/2018 17:01*	WG1185221
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*10/25/2018 00:02*	WG1185845

JC 11/15/18

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.5		1	10/24/2018 12:49	WG1185667

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0148	0.0270	1	10/23/2018 17:21	WG1185221
Acrylonitrile	U		0.00205	0.0135	1	10/22/2018 18:27	WG1184455
Benzene	U		0.000432	0.00108	1	10/22/2018 18:27	WG1184455
Bromobenzene	U		0.00113	0.0135	1	10/22/2018 18:27	WG1184455
Bromodichloromethane	U		0.000852	0.00270	1	10/22/2018 18:27	WG1184455
Bromochloromethane	U		0.00122	0.00540	1	10/22/2018 18:27	WG1184455
Bromoform	U		0.00646	0.0270	1	10/22/2018 18:27	WG1184455
Bromomethane	U		0.00400	0.0135	1	10/22/2018 18:27	WG1184455
n-Butylbenzene	U		0.00415	0.0135	1	10/22/2018 18:27	WG1184455
sec-Butylbenzene	U		0.00273	0.0135	1	10/22/2018 18:27	WG1184455
tert-Butylbenzene	U		0.00167	0.00540	1	10/22/2018 18:27	WG1184455
Carbon disulfide	U		0.00439	0.0135	1	10/22/2018 18:27	WG1184455
Carbon tetrachloride	U		0.00117	0.00540	1	10/22/2018 18:27	WG1184455
Chlorobenzene	U		0.000619	0.00270	1	10/22/2018 18:27	WG1184455
Chlorodibromomethane	U		0.000486	0.00270	1	10/22/2018 18:27	WG1184455
Chloroethane	U		0.00117	0.00540	1	10/22/2018 18:27	WG1184455
Chloroform	U		0.000448	0.00270	1	10/22/2018 18:27	WG1184455
Chloromethane	U		0.00150	0.0135	1	10/22/2018 18:27	WG1184455
2-Chlorotoluene	U		0.000994	0.00270	1	10/22/2018 18:27	WG1184455
4-Chlorotoluene	U		0.00122	0.00540	1	10/22/2018 18:27	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00551	0.0270	1	10/22/2018 18:27	WG1184455
1,2-Dibromoethane	U		0.000567	0.00270	1	10/22/2018 18:27	WG1184455
Dibromomethane	U		0.00108	0.00540	1	10/22/2018 18:27	WG1184455
1,2-Dichlorobenzene	U		0.00157	0.00540	1	10/22/2018 18:27	WG1184455
1,3-Dichlorobenzene	U		0.00184	0.00540	1	10/22/2018 18:27	WG1184455
1,4-Dichlorobenzene	U		0.00213	0.00540	1	10/22/2018 18:27	WG1184455
Dichlorodifluoromethane	U		0.000884	0.00270	1	10/23/2018 17:21	WG1185221
1,1-Dichloroethane	U		0.000621	0.00270	1	10/22/2018 18:27	WG1184455
1,2-Dichloroethane	U		0.000513	0.00270	1	10/22/2018 18:27	WG1184455
1,1-Dichloroethene	U		0.000540	0.00270	1	10/22/2018 18:27	WG1184455
cis-1,2-Dichloroethene	0.0164		0.000746	0.00270	1	10/23/2018 17:21	WG1185221
trans-1,2-Dichloroethene	U		0.00155	0.00540	1	10/22/2018 18:27	WG1184455
1,2-Dichloropropane	U		0.00137	0.00540	1	10/22/2018 18:27	WG1184455
1,1-Dichloropropene	U		0.000756	0.00270	1	10/22/2018 18:27	WG1184455
1,3-Dichloropropane	U		0.00189	0.00540	1	10/22/2018 18:27	WG1184455
cis-1,3-Dichloropropene	U		0.000733	0.00270	1	10/22/2018 18:27	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00165	0.00540	1	10/22/2018 18:27	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00151	0.00540	1	10/22/2018 18:27	WG1184455
2,2-Dichloropropane	U		0.000857	0.00270	1	10/22/2018 18:27	WG1184455
Di-isopropyl ether	U		0.000378	0.00108	1	10/22/2018 18:27	WG1184455
Ethylbenzene	U		0.000573	0.00270	1	10/22/2018 18:27	WG1184455
Hexachloro-1,3-butadiene	U		0.0137	0.0270	1	10/22/2018 18:27	WG1184455
2-Hexanone	U		0.0108	0.0270	1	10/22/2018 18:27	WG1184455
n-Hexane	U		0.00115	0.00540	1	10/23/2018 17:21	WG1185221
Iodomethane	U		0.00654	0.0135	1	10/22/2018 18:27	WG1184455
Isopropylbenzene	U		0.000933	0.00270	1	10/22/2018 18:27	WG1184455
p-Isopropyltoluene	U		0.00252	0.00540	1	10/22/2018 18:27	WG1184455
2-Butanone (MEK)	0.0253 J	J	0.0135	0.0270	1	10/22/2018 18:27	WG1184455
Methylene Chloride	U		0.00718	0.0270	1	10/22/2018 18:27	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0270	1	10/22/2018 18:27	WG1184455

JC 11/15/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000319	0.00108	1	10/22/2018 18:27	WG1184455
Naphthalene	U		0.00337	0.0135	1	10/22/2018 18:27	WG1184455
n-Propylbenzene	U		0.00128	0.00540	1	10/22/2018 18:27	WG1184455
Styrene	U		0.00295	0.0135	1	10/22/2018 18:27	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000540	0.00270	1	10/22/2018 18:27	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000421	0.00270	1	10/23/2018 17:21	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000729	0.00270	1	10/22/2018 18:27	WG1184455
Tetrachloroethene	0.0302		0.000756	0.00270	1	10/22/2018 18:27	WG1184455
Toluene	U		0.00135	0.00540	1	10/22/2018 18:27	WG1184455
1,2,3-Trichlorobenzene	U		0.000675	0.00270	1	10/23/2018 17:21	WG1185221
1,2,4-Trichlorobenzene	U		0.00521	0.0135	1	10/22/2018 18:27	WG1184455
1,1,1-Trichloroethane	U		0.000297	0.00270	1	10/22/2018 18:27	WG1184455
1,1,2-Trichloroethane	U		0.000954	0.00270	1	10/22/2018 18:27	WG1184455
Trichloroethene	0.00438		0.000432	0.00108	1	10/22/2018 18:27	WG1184455
Trichlorofluoromethane	U		0.000540	0.00270	1	10/22/2018 18:27	WG1184455
1,2,3-Trichloropropane	U		0.00551	0.0135	1	10/22/2018 18:27	WG1184455
1,2,4-Trimethylbenzene	U		0.00125	0.00540	1	10/22/2018 18:27	WG1184455
1,2,3-Trimethylbenzene	U		0.00124	0.00540	1	10/22/2018 18:27	WG1184455
1,3,5-Trimethylbenzene	U		0.00117	0.00540	1	10/22/2018 18:27	WG1184455
Vinyl acetate	U		0.00380	0.0135	1	10/22/2018 18:27	WG1184455
Vinyl chloride	U		0.000738	0.00270	1	10/22/2018 18:27	WG1184455
Xylenes, Total	U		0.00517	0.00702	1	10/22/2018 18:27	WG1184455
(S) Toluene-d8	*103*			*75.0-131*		*10/22/2018 18:27*	WG1184455
(S) Toluene-d8	*99.0*			*75.0-131*		*10/23/2018 17:21*	WG1185221
(S) Dibromofluoromethane	*91.8*			*65.0-129*		*10/22/2018 18:27*	WG1184455
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/23/2018 17:21*	WG1185221
(S) 4-Bromofluorobenzene	*93.7*			*67.0-138*		*10/22/2018 18:27*	WG1184455
(S) 4-Bromofluorobenzene	*118*			*67.0-138*		*10/23/2018 17:21*	WG1185221

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.8		1	10/24/2018 12:49	WG1185667

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0145	0.0264	1	10/23/2018 17:41	WG1185221
Acrylonitrile	U		0.00200	0.0132	1	10/22/2018 18:45	WG1184455
Benzene	U		0.000422	0.00105	1	10/22/2018 18:45	WG1184455
Bromobenzene	U		0.00111	0.0132	1	10/22/2018 18:45	WG1184455
Bromodichloromethane	U		0.000831	0.00264	1	10/22/2018 18:45	WG1184455
Bromochloromethane	U		0.00119	0.00527	1	10/22/2018 18:45	WG1184455
Bromoform	U		0.00631	0.0264	1	10/22/2018 18:45	WG1184455
Bromomethane	U		0.00390	0.0132	1	10/22/2018 18:45	WG1184455
n-Butylbenzene	U		0.00405	0.0132	1	10/22/2018 18:45	WG1184455
sec-Butylbenzene	U		0.00267	0.0132	1	10/22/2018 18:45	WG1184455
tert-Butylbenzene	U		0.00163	0.00527	1	10/22/2018 18:45	WG1184455
Carbon disulfide	U		0.00428	0.0132	1	10/22/2018 18:45	WG1184455
Carbon tetrachloride	U		0.00114	0.00527	1	10/22/2018 18:45	WG1184455
Chlorobenzene	U		0.000604	0.00264	1	10/22/2018 18:45	WG1184455
Chlorodibromomethane	U		0.000475	0.00264	1	10/22/2018 18:45	WG1184455
Chloroethane	U		0.00114	0.00527	1	10/22/2018 18:45	WG1184455
Chloroform	0.00135 U	B J	0.000438	0.00264	1	10/22/2018 18:45	WG1184455
Chloromethane	U		0.00147	0.0132	1	10/22/2018 18:45	WG1184455
2-Chlorotoluene	U		0.000970	0.00264	1	10/22/2018 18:45	WG1184455
4-Chlorotoluene	U		0.00119	0.00527	1	10/22/2018 18:45	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00538	0.0264	1	10/22/2018 18:45	WG1184455
1,2-Dibromoethane	U		0.000554	0.00264	1	10/22/2018 18:45	WG1184455
Dibromomethane	U		0.00105	0.00527	1	10/22/2018 18:45	WG1184455
1,2-Dichlorobenzene	U		0.00153	0.00527	1	10/22/2018 18:45	WG1184455
1,3-Dichlorobenzene	U		0.00179	0.00527	1	10/22/2018 18:45	WG1184455
1,4-Dichlorobenzene	U		0.00208	0.00527	1	10/22/2018 18:45	WG1184455
Dichlorodifluoromethane	U		0.000863	0.00264	1	10/23/2018 17:41	WG1185221
1,1-Dichloroethane	U		0.000607	0.00264	1	10/22/2018 18:45	WG1184455
1,2-Dichloroethane	U		0.000501	0.00264	1	10/22/2018 18:45	WG1184455
1,1-Dichloroethene	U		0.000527	0.00264	1	10/22/2018 18:45	WG1184455
cis-1,2-Dichloroethene	0.0277		0.000728	0.00264	1	10/23/2018 17:41	WG1185221
trans-1,2-Dichloroethene	U		0.00151	0.00527	1	10/22/2018 18:45	WG1184455
1,2-Dichloropropane	U		0.00134	0.00527	1	10/22/2018 18:45	WG1184455
1,1-Dichloropropene	U		0.000738	0.00264	1	10/22/2018 18:45	WG1184455
1,3-Dichloropropane	U		0.00185	0.00527	1	10/22/2018 18:45	WG1184455
cis-1,3-Dichloropropene	U		0.000715	0.00264	1	10/22/2018 18:45	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00161	0.00527	1	10/22/2018 18:45	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00148	0.00527	1	10/22/2018 18:45	WG1184455
2,2-Dichloropropane	U		0.000836	0.00264	1	10/22/2018 18:45	WG1184455
Di-isopropyl ether	U		0.000369	0.00105	1	10/22/2018 18:45	WG1184455
Ethylbenzene	U		0.000559	0.00264	1	10/22/2018 18:45	WG1184455
Hexachloro-1,3-butadiene	U		0.0134	0.0264	1	10/22/2018 18:45	WG1184455
2-Hexanone	U		0.0105	0.0264	1	10/22/2018 18:45	WG1184455
n-Hexane	U		0.00112	0.00527	1	10/22/2018 18:45	WG1184455
Iodomethane	U		0.00638	0.0132	1	10/22/2018 18:45	WG1184455
Isopropylbenzene	U		0.000910	0.00264	1	10/22/2018 18:45	WG1184455
p-Isopropyltoluene	U		0.00246	0.00527	1	10/22/2018 18:45	WG1184455
2-Butanone (MEK)	0.0258 J	J	0.0132	0.0264	1	10/22/2018 18:45	WG1184455
Methylene Chloride	U		0.00700	0.0264	1	10/22/2018 18:45	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0264	1	10/22/2018 18:45	WG1184455

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000311	0.00105	1	10/22/2018 18:45	WG1184455
Naphthalene	U		0.00329	0.0132	1	10/22/2018 18:45	WG1184455
n-Propylbenzene	U		0.00124	0.00527	1	10/22/2018 18:45	WG1184455
Styrene	U		0.00288	0.0132	1	10/22/2018 18:45	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000527	0.00264	1	10/22/2018 18:45	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000411	0.00264	1	10/23/2018 17:41	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000712	0.00264	1	10/22/2018 18:45	WG1184455
Tetrachloroethene	0.0301		0.000738	0.00264	1	10/22/2018 18:45	WG1184455
Toluene	U		0.00132	0.00527	1	10/22/2018 18:45	WG1184455
1,2,3-Trichlorobenzene	U		0.000659	0.00264	1	10/23/2018 17:41	WG1185221
1,2,4-Trichlorobenzene	U		0.00508	0.0132	1	10/22/2018 18:45	WG1184455
1,1,1-Trichloroethane	U		0.000290	0.00264	1	10/22/2018 18:45	WG1184455
1,1,2-Trichloroethane	U		0.000931	0.00264	1	10/22/2018 18:45	WG1184455
Trichloroethene	0.00471		0.000422	0.00105	1	10/22/2018 18:45	WG1184455
Trichlorofluoromethane	U		0.000527	0.00264	1	10/22/2018 18:45	WG1184455
1,2,3-Trichloropropane	U		0.00538	0.0132	1	10/22/2018 18:45	WG1184455
1,2,4-Trimethylbenzene	U		0.00122	0.00527	1	10/22/2018 18:45	WG1184455
1,2,3-Trimethylbenzene	U		0.00121	0.00527	1	10/22/2018 18:45	WG1184455
1,3,5-Trimethylbenzene	U		0.00114	0.00527	1	10/22/2018 18:45	WG1184455
Vinyl acetate	U		0.00371	0.0132	1	10/22/2018 18:45	WG1184455
Vinyl chloride	U		0.000720	0.00264	1	10/22/2018 18:45	WG1184455
Xylenes, Total	U		0.00504	0.00686	1	10/22/2018 18:45	WG1184455
(S) Toluene-d8	*103*			*75.0-131*		*10/22/2018 18:45*	WG1184455
(S) Toluene-d8	*99.9*			*75.0-131*		*10/23/2018 17:41*	WG1185221
(S) Dibromofluoromethane	*91.7*			*65.0-129*		*10/22/2018 18:45*	WG1184455
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/23/2018 17:41*	WG1185221
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*		*10/22/2018 18:45*	WG1184455
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/23/2018 17:41*	WG1185221

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	87.9		1	10/24/2018 12:49	WG1185667

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0156	0.0285	1	10/23/2018 18:02	WG1185221
Acrylonitrile	U		0.00216	0.0142	1	10/22/2018 19:03	WG1184455
Benzene	U		0.000455	0.00114	1	10/22/2018 19:03	WG1184455
Bromobenzene	U		0.00119	0.0142	1	10/22/2018 19:03	WG1184455
Bromodichloromethane	U		0.000897	0.00285	1	10/22/2018 19:03	WG1184455
Bromochloromethane	U		0.00129	0.00569	1	10/22/2018 19:03	WG1184455
Bromoform	U		0.00681	0.0285	1	10/22/2018 19:03	WG1184455
Bromomethane	U		0.00421	0.0142	1	10/22/2018 19:03	WG1184455
n-Butylbenzene	U		0.00437	0.0142	1	10/22/2018 19:03	WG1184455
sec-Butylbenzene	U		0.00288	0.0142	1	10/22/2018 19:03	WG1184455
tert-Butylbenzene	U		0.00176	0.00569	1	10/22/2018 19:03	WG1184455
Carbon disulfide	U		0.00462	0.0142	1	10/22/2018 19:03	WG1184455
Carbon tetrachloride	U		0.00123	0.00569	1	10/22/2018 19:03	WG1184455
Chlorobenzene	U		0.000652	0.00285	1	10/22/2018 19:03	WG1184455
Chlorodibromomethane	U		0.000512	0.00285	1	10/22/2018 19:03	WG1184455
Chloroethane	U		0.00123	0.00569	1	10/22/2018 19:03	WG1184455
Chloroform	U		0.000472	0.00285	1	10/22/2018 19:03	WG1184455
Chloromethane	U		0.00158	0.0142	1	10/22/2018 19:03	WG1184455
2-Chlorotoluene	U		0.00105	0.00285	1	10/22/2018 19:03	WG1184455
4-Chlorotoluene	U		0.00129	0.00569	1	10/22/2018 19:03	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00580	0.0285	1	10/22/2018 19:03	WG1184455
1,2-Dibromoethane	U		0.000597	0.00285	1	10/22/2018 19:03	WG1184455
Dibromomethane	U		0.00114	0.00569	1	10/22/2018 19:03	WG1184455
1,2-Dichlorobenzene	U		0.00165	0.00569	1	10/22/2018 19:03	WG1184455
1,3-Dichlorobenzene	U		0.00193	0.00569	1	10/22/2018 19:03	WG1184455
1,4-Dichlorobenzene	U		0.00224	0.00569	1	10/22/2018 19:03	WG1184455
Dichlorodifluoromethane	U		0.000931	0.00285	1	10/23/2018 18:02	WG1185221
1,1-Dichloroethane	U		0.000654	0.00285	1	10/22/2018 19:03	WG1184455
1,2-Dichloroethane	U		0.000541	0.00285	1	10/22/2018 19:03	WG1184455
1,1-Dichloroethene	U		0.000569	0.00285	1	10/22/2018 19:03	WG1184455
cis-1,2-Dichloroethene	U		0.000785	0.00285	1	10/22/2018 19:03	WG1184455
trans-1,2-Dichloroethene	U		0.00163	0.00569	1	10/22/2018 19:03	WG1184455
1,2-Dichloropropane	U		0.00145	0.00569	1	10/22/2018 19:03	WG1184455
1,1-Dichloropropene	U		0.000797	0.00285	1	10/22/2018 19:03	WG1184455
1,3-Dichloropropane	U		0.00199	0.00569	1	10/22/2018 19:03	WG1184455
cis-1,3-Dichloropropene	U		0.000772	0.00285	1	10/22/2018 19:03	WG1184455
trans-1,3-Dichloropropene	U	U J4	0.00174	0.00569	1	10/22/2018 19:03	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00159	0.00569	1	10/22/2018 19:03	WG1184455
2,2-Dichloropropane	U		0.000902	0.00285	1	10/22/2018 19:03	WG1184455
Di-isopropyl ether	U		0.000398	0.00114	1	10/22/2018 19:03	WG1184455
Ethylbenzene	U		0.000603	0.00285	1	10/22/2018 19:03	WG1184455
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	10/22/2018 19:03	WG1184455
2-Hexanone	U		0.0114	0.0285	1	10/22/2018 19:03	WG1184455
n-Hexane	U		0.00121	0.00569	1	10/22/2018 19:03	WG1184455
Iodomethane	U		0.00689	0.0142	1	10/22/2018 19:03	WG1184455
Isopropylbenzene	U		0.000982	0.00285	1	10/22/2018 19:03	WG1184455
p-Isopropyltoluene	U		0.00265	0.00569	1	10/22/2018 19:03	WG1184455
2-Butanone (MEK)	0.0289		0.0142	0.0285	1	10/22/2018 19:03	WG1184455
Methylene Chloride	U		0.00756	0.0285	1	10/22/2018 19:03	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	10/22/2018 19:03	WG1184455

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000336	0.00114	1	10/22/2018 19:03	WG1184455
Naphthalene	U		0.00355	0.0142	1	10/22/2018 19:03	WG1184455
n-Propylbenzene	U		0.00134	0.00569	1	10/22/2018 19:03	WG1184455
Styrene	U		0.00311	0.0142	1	10/22/2018 19:03	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000569	0.00285	1	10/22/2018 19:03	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000444	0.00285	1	10/23/2018 18:02	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000768	0.00285	1	10/22/2018 19:03	WG1184455
Tetrachloroethene	0.0321		0.000797	0.00285	1	10/22/2018 19:03	WG1184455
Toluene	U		0.00142	0.00569	1	10/22/2018 19:03	WG1184455
1,2,3-Trichlorobenzene	U		0.000711	0.00285	1	10/23/2018 18:02	WG1185221
1,2,4-Trichlorobenzene	U		0.00549	0.0142	1	10/22/2018 19:03	WG1184455
1,1,1-Trichloroethane	U		0.000313	0.00285	1	10/22/2018 19:03	WG1184455
1,1,2-Trichloroethane	U		0.00100	0.00285	1	10/22/2018 19:03	WG1184455
Trichloroethene	0.00106	J J	0.000455	0.00114	1	10/22/2018 19:03	WG1184455
Trichlorofluoromethane	U		0.000569	0.00285	1	10/22/2018 19:03	WG1184455
1,2,3-Trichloropropane	U		0.00580	0.0142	1	10/22/2018 19:03	WG1184455
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	10/22/2018 19:03	WG1184455
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	10/22/2018 19:03	WG1184455
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	10/22/2018 19:03	WG1184455
Vinyl acetate	U		0.00401	0.0142	1	10/22/2018 19:03	WG1184455
Vinyl chloride	U		0.000777	0.00285	1	10/22/2018 19:03	WG1184455
Xylenes, Total	U		0.00544	0.00740	1	10/22/2018 19:03	WG1184455
(S) Toluene-d8	*104*			*75.0-131*		*10/22/2018 19:03*	WG1184455
(S) Toluene-d8	*100*			*75.0-131*		*10/23/2018 18:02*	WG1185221
(S) Dibromofluoromethane	*91.8*			*65.0-129*		*10/22/2018 19:03*	WG1184455
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/23/2018 18:02*	WG1185221
(S) 4-Bromofluorobenzene	*94.1*			*67.0-138*		*10/22/2018 19:03*	WG1184455
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/23/2018 18:02*	WG1185221

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.6		1	10/24/2018 13:49	WG1185668

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0273	1	10/23/2018 18:22	WG1185221
Acrylonitrile	U		0.00207	0.0136	1	10/22/2018 19:22	WG1184455
Benzene	U		0.000437	0.00109	1	10/22/2018 19:22	WG1184455
Bromobenzene	U		0.00115	0.0136	1	10/22/2018 19:22	WG1184455
Bromodichloromethane	U		0.000860	0.00273	1	10/22/2018 19:22	WG1184455
Bromochloromethane	U		0.00123	0.00546	1	10/22/2018 19:22	WG1184455
Bromoform	U		0.00653	0.0273	1	10/22/2018 19:22	WG1184455
Bromomethane	U		0.00404	0.0136	1	10/22/2018 19:22	WG1184455
n-Butylbenzene	U		0.00419	0.0136	1	10/22/2018 19:22	WG1184455
sec-Butylbenzene	U		0.00276	0.0136	1	10/22/2018 19:22	WG1184455
tert-Butylbenzene	U		0.00169	0.00546	1	10/22/2018 19:22	WG1184455
Carbon disulfide	0.00546 J	J	0.00443	0.0136	1	10/22/2018 19:22	WG1184455
Carbon tetrachloride	U		0.00118	0.00546	1	10/22/2018 19:22	WG1184455
Chlorobenzene	U		0.000625	0.00273	1	10/22/2018 19:22	WG1184455
Chlorodibromomethane	U		0.000491	0.00273	1	10/22/2018 19:22	WG1184455
Chloroethane	U		0.00118	0.00546	1	10/22/2018 19:22	WG1184455
Chloroform	U		0.000453	0.00273	1	10/22/2018 19:22	WG1184455
Chloromethane	U		0.00152	0.0136	1	10/22/2018 19:22	WG1184455
2-Chlorotoluene	U		0.00100	0.00273	1	10/22/2018 19:22	WG1184455
4-Chlorotoluene	U		0.00123	0.00546	1	10/22/2018 19:22	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	10/22/2018 19:22	WG1184455
1,2-Dibromoethane	U		0.000573	0.00273	1	10/22/2018 19:22	WG1184455
Dibromomethane	U		0.00109	0.00546	1	10/22/2018 19:22	WG1184455
1,2-Dichlorobenzene	U		0.00158	0.00546	1	10/22/2018 19:22	WG1184455
1,3-Dichlorobenzene	U		0.00186	0.00546	1	10/22/2018 19:22	WG1184455
1,4-Dichlorobenzene	U		0.00215	0.00546	1	10/22/2018 19:22	WG1184455
Dichlorodifluoromethane	U		0.000893	0.00273	1	10/23/2018 18:22	WG1185221
1,1-Dichloroethane	U		0.000628	0.00273	1	10/22/2018 19:22	WG1184455
1,2-Dichloroethane	U		0.000519	0.00273	1	10/22/2018 19:22	WG1184455
1,1-Dichloroethene	U		0.000546	0.00273	1	10/22/2018 19:22	WG1184455
cis-1,2-Dichloroethene	0.0170		0.000753	0.00273	1	10/23/2018 18:22	WG1185221
trans-1,2-Dichloroethene	U		0.00156	0.00546	1	10/22/2018 19:22	WG1184455
1,2-Dichloropropane	U		0.00139	0.00546	1	10/22/2018 19:22	WG1184455
1,1-Dichloropropene	U		0.000764	0.00273	1	10/22/2018 19:22	WG1184455
1,3-Dichloropropane	U		0.00191	0.00546	1	10/22/2018 19:22	WG1184455
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	10/22/2018 19:22	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00167	0.00546	1	10/22/2018 19:22	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00153	0.00546	1	10/22/2018 19:22	WG1184455
2,2-Dichloropropane	U		0.000866	0.00273	1	10/22/2018 19:22	WG1184455
Di-isopropyl ether	U		0.000382	0.00109	1	10/22/2018 19:22	WG1184455
Ethylbenzene	U		0.000579	0.00273	1	10/22/2018 19:22	WG1184455
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	10/22/2018 19:22	WG1184455
2-Hexanone	U		0.0109	0.0273	1	10/22/2018 19:22	WG1184455
n-Hexane	U		0.00116	0.00546	1	10/22/2018 19:22	WG1184455
Iodomethane	U		0.00660	0.0136	1	10/22/2018 19:22	WG1184455
Isopropylbenzene	U		0.000942	0.00273	1	10/22/2018 19:22	WG1184455
p-Isopropyltoluene	U		0.00254	0.00546	1	10/22/2018 19:22	WG1184455
2-Butanone (MEK)	0.0228 J	J	0.0136	0.0273	1	10/22/2018 19:22	WG1184455
Methylene Chloride	U		0.00725	0.0273	1	10/22/2018 19:22	WG1184455 JC 11/15/18
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/22/2018 19:22	WG1184455

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	10/22/2018 19:22	WG1184455
Naphthalene	U		0.00341	0.0136	1	10/22/2018 19:22	WG1184455
n-Propylbenzene	U		0.00129	0.00546	1	10/22/2018 19:22	WG1184455
Styrene	U		0.00298	0.0136	1	10/22/2018 19:22	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000546	0.00273	1	10/22/2018 19:22	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	10/23/2018 18:22	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000737	0.00273	1	10/22/2018 19:22	WG1184455
Tetrachloroethene	0.0558		0.000764	0.00273	1	10/22/2018 19:22	WG1184455
Toluene	U		0.00136	0.00546	1	10/22/2018 19:22	WG1184455
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	10/23/2018 18:22	WG1185221
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	10/22/2018 19:22	WG1184455
1,1,1-Trichloroethane	U		0.000300	0.00273	1	10/22/2018 19:22	WG1184455
1,1,2-Trichloroethane	U		0.000964	0.00273	1	10/22/2018 19:22	WG1184455
Trichloroethene	0.00523		0.000437	0.00109	1	10/22/2018 19:22	WG1184455
Trichlorofluoromethane	U		0.000546	0.00273	1	10/22/2018 19:22	WG1184455
1,2,3-Trichloropropane	U		0.00557	0.0136	1	10/22/2018 19:22	WG1184455
1,2,4-Trimethylbenzene	U		0.00127	0.00546	1	10/22/2018 19:22	WG1184455
1,2,3-Trimethylbenzene	U		0.00126	0.00546	1	10/22/2018 19:22	WG1184455
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	10/22/2018 19:22	WG1184455
Vinyl acetate	U		0.00384	0.0136	1	10/22/2018 19:22	WG1184455
Vinyl chloride	U		0.000746	0.00273	1	10/22/2018 19:22	WG1184455
Xylenes, Total	U		0.00522	0.00710	1	10/22/2018 19:22	WG1184455
(S) Toluene-d8	*103*			*75.0-131*		*10/22/2018 19:22*	WG1184455
(S) Toluene-d8	*97.5*			*75.0-131*		*10/23/2018 18:22*	WG1185221
(S) Dibromofluoromethane	*94.1*			*65.0-129*		*10/22/2018 19:22*	WG1184455
(S) Dibromofluoromethane	*112*			*65.0-129*		*10/23/2018 18:22*	WG1185221
(S) 4-Bromofluorobenzene	*92.3*			*67.0-138*		*10/22/2018 19:22*	WG1184455
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/23/2018 18:22*	WG1185221

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.2		1	10/24/2018 13:49	WG1185668

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0149	0.0271	1	10/23/2018 18:42	WG1185221
Acrylonitrile	U		0.00206	0.0136	1	10/22/2018 19:40	WG1184455
Benzene	U		0.000434	0.00108	1	10/22/2018 19:40	WG1184455
Bromobenzene	U		0.00114	0.0136	1	10/22/2018 19:40	WG1184455
Bromodichloromethane	U		0.000855	0.00271	1	10/22/2018 19:40	WG1184455
Bromochloromethane	U		0.00123	0.00542	1	10/22/2018 19:40	WG1184455
Bromoform	U		0.00649	0.0271	1	10/22/2018 19:40	WG1184455
Bromomethane	U		0.00401	0.0136	1	10/22/2018 19:40	WG1184455
n-Butylbenzene	U		0.00417	0.0136	1	10/22/2018 19:40	WG1184455
sec-Butylbenzene	U		0.00274	0.0136	1	10/22/2018 19:40	WG1184455
tert-Butylbenzene	U		0.00168	0.00542	1	10/22/2018 19:40	WG1184455
Carbon disulfide	U		0.00440	0.0136	1	10/22/2018 19:40	WG1184455
Carbon tetrachloride	U		0.00117	0.00542	1	10/22/2018 19:40	WG1184455
Chlorobenzene	U		0.000622	0.00271	1	10/22/2018 19:40	WG1184455
Chlorodibromomethane	U		0.000488	0.00271	1	10/22/2018 19:40	WG1184455
Chloroethane	U		0.00117	0.00542	1	10/22/2018 19:40	WG1184455
Chloroform	U		0.000450	0.00271	1	10/22/2018 19:40	WG1184455
Chloromethane	U		0.00151	0.0136	1	10/22/2018 19:40	WG1184455
2-Chlorotoluene	U		0.000998	0.00271	1	10/22/2018 19:40	WG1184455
4-Chlorotoluene	U		0.00123	0.00542	1	10/22/2018 19:40	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00553	0.0271	1	10/22/2018 19:40	WG1184455
1,2-Dibromoethane	U		0.000570	0.00271	1	10/22/2018 19:40	WG1184455
Dibromomethane	U		0.00108	0.00542	1	10/22/2018 19:40	WG1184455
1,2-Dichlorobenzene	U		0.00157	0.00542	1	10/22/2018 19:40	WG1184455
1,3-Dichlorobenzene	U		0.00184	0.00542	1	10/22/2018 19:40	WG1184455
1,4-Dichlorobenzene	U		0.00214	0.00542	1	10/22/2018 19:40	WG1184455
Dichlorodifluoromethane	U		0.000887	0.00271	1	10/23/2018 18:42	WG1185221
1,1-Dichloroethane	U		0.000624	0.00271	1	10/22/2018 19:40	WG1184455
1,2-Dichloroethane	U		0.000515	0.00271	1	10/22/2018 19:40	WG1184455
1,1-Dichloroethene	U		0.000542	0.00271	1	10/22/2018 19:40	WG1184455
cis-1,2-Dichloroethene	0.0894		0.000749	0.00271	1	10/23/2018 18:42	WG1185221
trans-1,2-Dichloroethene	U		0.00155	0.00542	1	10/22/2018 19:40	WG1184455
1,2-Dichloropropane	U		0.00138	0.00542	1	10/22/2018 19:40	WG1184455
1,1-Dichloropropene	U		0.000759	0.00271	1	10/22/2018 19:40	WG1184455
1,3-Dichloropropane	U		0.00190	0.00542	1	10/22/2018 19:40	WG1184455
cis-1,3-Dichloropropene	U		0.000736	0.00271	1	10/22/2018 19:40	WG1184455
trans-1,3-Dichloropropene	U	U J4	0.00166	0.00542	1	10/22/2018 19:40	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00152	0.00542	1	10/22/2018 19:40	WG1184455
2,2-Dichloropropane	U		0.000860	0.00271	1	10/22/2018 19:40	WG1184455
Di-isopropyl ether	U		0.000380	0.00108	1	10/22/2018 19:40	WG1184455
Ethylbenzene	U		0.000575	0.00271	1	10/22/2018 19:40	WG1184455
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	10/22/2018 19:40	WG1184455
2-Hexanone	U		0.0108	0.0271	1	10/22/2018 19:40	WG1184455
n-Hexane	U		0.00115	0.00542	1	10/22/2018 19:40	WG1184455
Iodomethane	U		0.00656	0.0136	1	10/22/2018 19:40	WG1184455
Isopropylbenzene	U		0.000936	0.00271	1	10/22/2018 19:40	WG1184455
p-Isopropyltoluene	U		0.00253	0.00542	1	10/22/2018 19:40	WG1184455
2-Butanone (MEK)	0.0287		0.0136	0.0271	1	10/22/2018 19:40	WG1184455
Methylene Chloride	U		0.00720	0.0271	1	10/22/2018 19:40	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0271	1	10/22/2018 19:40	WG1184455

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00108	1	10/22/2018 19:40	WG1184455
Naphthalene	U		0.00338	0.0136	1	10/22/2018 19:40	WG1184455
n-Propylbenzene	U		0.00128	0.00542	1	10/22/2018 19:40	WG1184455
Styrene	U		0.00296	0.0136	1	10/22/2018 19:40	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000542	0.00271	1	10/22/2018 19:40	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	10/23/2018 18:42	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000732	0.00271	1	10/22/2018 19:40	WG1184455
Tetrachloroethene	0.416		0.000759	0.00271	1	10/22/2018 19:40	WG1184455
Toluene	U		0.00136	0.00542	1	10/22/2018 19:40	WG1184455
1,2,3-Trichlorobenzene	U		0.000678	0.00271	1	10/23/2018 18:42	WG1185221
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	10/22/2018 19:40	WG1184455
1,1,1-Trichloroethane	U		0.000298	0.00271	1	10/22/2018 19:40	WG1184455
1,1,2-Trichloroethane	U		0.000958	0.00271	1	10/22/2018 19:40	WG1184455
Trichloroethene	0.0154		0.000434	0.00108	1	10/22/2018 19:40	WG1184455
Trichlorofluoromethane	U		0.000542	0.00271	1	10/22/2018 19:40	WG1184455
1,2,3-Trichloropropane	U		0.00553	0.0136	1	10/22/2018 19:40	WG1184455
1,2,4-Trimethylbenzene	U		0.00126	0.00542	1	10/22/2018 19:40	WG1184455
1,2,3-Trimethylbenzene	U		0.00125	0.00542	1	10/22/2018 19:40	WG1184455
1,3,5-Trimethylbenzene	U		0.00117	0.00542	1	10/22/2018 19:40	WG1184455
Vinyl acetate	U		0.00382	0.0136	1	10/22/2018 19:40	WG1184455
Vinyl chloride	0.00733		0.000741	0.00271	1	10/22/2018 19:40	WG1184455
Xylenes, Total	U		0.00519	0.00705	1	10/22/2018 19:40	WG1184455
(S) Toluene-d8	*104*			*75.0-131*		*10/22/2018 19:40*	WG1184455
(S) Toluene-d8	*96.9*			*75.0-131*		*10/23/2018 18:42*	WG1185221
(S) Dibromofluoromethane	*93.1*			*65.0-129*		*10/22/2018 19:40*	WG1184455
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/23/2018 18:42*	WG1185221
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*10/22/2018 19:40*	WG1184455
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/23/2018 18:42*	WG1185221

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.1		1	10/24/2018 13:49	WG1185668

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0149	0.0272	1	10/23/2018 19:02	WG1185221
Acrylonitrile	U		0.00206	0.0136	1	10/22/2018 19:58	WG1184455
Benzene	U		0.000434	0.00109	1	10/22/2018 19:58	WG1184455
Bromobenzene	U		0.00114	0.0136	1	10/22/2018 19:58	WG1184455
Bromodichloromethane	U		0.000856	0.00272	1	10/22/2018 19:58	WG1184455
Bromochloromethane	U		0.00123	0.00543	1	10/22/2018 19:58	WG1184455
Bromoform	U		0.00649	0.0272	1	10/22/2018 19:58	WG1184455
Bromomethane	U		0.00402	0.0136	1	10/22/2018 19:58	WG1184455
n-Butylbenzene	U		0.00417	0.0136	1	10/22/2018 19:58	WG1184455
sec-Butylbenzene	U		0.00275	0.0136	1	10/22/2018 19:58	WG1184455
tert-Butylbenzene	U		0.00168	0.00543	1	10/22/2018 19:58	WG1184455
Carbon disulfide	U		0.00441	0.0136	1	10/22/2018 19:58	WG1184455
Carbon tetrachloride	U		0.00117	0.00543	1	10/22/2018 19:58	WG1184455
Chlorobenzene	U		0.000622	0.00272	1	10/22/2018 19:58	WG1184455
Chlorodibromomethane	U		0.000489	0.00272	1	10/22/2018 19:58	WG1184455
Chloroethane	U		0.00117	0.00543	1	10/22/2018 19:58	WG1184455
Chloroform	U		0.000451	0.00272	1	10/22/2018 19:58	WG1184455
Chloromethane	U		0.00151	0.0136	1	10/22/2018 19:58	WG1184455
2-Chlorotoluene	U		0.000999	0.00272	1	10/22/2018 19:58	WG1184455
4-Chlorotoluene	U		0.00123	0.00543	1	10/22/2018 19:58	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00554	0.0272	1	10/22/2018 19:58	WG1184455
1,2-Dibromoethane	U		0.000570	0.00272	1	10/22/2018 19:58	WG1184455
Dibromomethane	U		0.00109	0.00543	1	10/22/2018 19:58	WG1184455
1,2-Dichlorobenzene	U		0.00157	0.00543	1	10/22/2018 19:58	WG1184455
1,3-Dichlorobenzene	U		0.00185	0.00543	1	10/22/2018 19:58	WG1184455
1,4-Dichlorobenzene	U		0.00214	0.00543	1	10/22/2018 19:58	WG1184455
Dichlorodifluoromethane	U		0.000888	0.00272	1	10/23/2018 19:02	WG1185221
1,1-Dichloroethane	U		0.000624	0.00272	1	10/22/2018 19:58	WG1184455
1,2-Dichloroethane	U		0.000516	0.00272	1	10/22/2018 19:58	WG1184455
1,1-Dichloroethene	U		0.000543	0.00272	1	10/22/2018 19:58	WG1184455
cis-1,2-Dichloroethene	U		0.000749	0.00272	1	10/22/2018 19:58	WG1184455
trans-1,2-Dichloroethene	U		0.00155	0.00543	1	10/22/2018 19:58	WG1184455
1,2-Dichloropropane	U		0.00138	0.00543	1	10/22/2018 19:58	WG1184455
1,1-Dichloropropene	U		0.000760	0.00272	1	10/22/2018 19:58	WG1184455
1,3-Dichloropropane	U		0.00190	0.00543	1	10/22/2018 19:58	WG1184455
cis-1,3-Dichloropropene	U		0.000736	0.00272	1	10/22/2018 19:58	WG1184455
trans-1,3-Dichloropropene	U	U J4	0.00166	0.00543	1	10/22/2018 19:58	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00152	0.00543	1	10/22/2018 19:58	WG1184455
2,2-Dichloropropane	U		0.000861	0.00272	1	10/22/2018 19:58	WG1184455
Di-isopropyl ether	U		0.000380	0.00109	1	10/22/2018 19:58	WG1184455
Ethylbenzene	U		0.000576	0.00272	1	10/22/2018 19:58	WG1184455
Hexachloro-1,3-butadiene	U		0.0138	0.0272	1	10/22/2018 19:58	WG1184455
2-Hexanone	U		0.0109	0.0272	1	10/22/2018 19:58	WG1184455
n-Hexane	U		0.00115	0.00543	1	10/22/2018 19:58	WG1184455
Iodomethane	U		0.00657	0.0136	1	10/22/2018 19:58	WG1184455
Isopropylbenzene	U		0.000937	0.00272	1	10/22/2018 19:58	WG1184455
p-Isopropyltoluene	U		0.00253	0.00543	1	10/22/2018 19:58	WG1184455
2-Butanone (MEK)	U		0.0136	0.0272	1	10/22/2018 19:58	WG1184455
Methylene Chloride	U		0.00721	0.0272	1	10/22/2018 19:58	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	10/22/2018 19:58	WG1184455

JC 11/15/18

B-264-3

Collected date/time: 10/18/18 09:20

SAMPLE RESULTS - 07

L1036473

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00109	1	10/22/2018 19:58	WG1184455
Naphthalene	U		0.00339	0.0136	1	10/22/2018 19:58	WG1184455
n-Propylbenzene	U		0.00128	0.00543	1	10/22/2018 19:58	WG1184455
Styrene	U		0.00296	0.0136	1	10/22/2018 19:58	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000543	0.00272	1	10/22/2018 19:58	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	10/23/2018 19:02	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000733	0.00272	1	10/22/2018 19:58	WG1184455
Tetrachloroethene	0.200		0.000760	0.00272	1	10/22/2018 19:58	WG1184455
Toluene	U		0.00136	0.00543	1	10/22/2018 19:58	WG1184455
1,2,3-Trichlorobenzene	U		0.000679	0.00272	1	10/23/2018 19:02	WG1185221
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	10/22/2018 19:58	WG1184455
1,1,1-Trichloroethane	U		0.000299	0.00272	1	10/22/2018 19:58	WG1184455
1,1,2-Trichloroethane	U		0.000959	0.00272	1	10/22/2018 19:58	WG1184455
Trichloroethene	0.00630		0.000434	0.00109	1	10/22/2018 19:58	WG1184455
Trichlorofluoromethane	U		0.000543	0.00272	1	10/22/2018 19:58	WG1184455
1,2,3-Trichloropropane	U		0.00554	0.0136	1	10/22/2018 19:58	WG1184455
1,2,4-Trimethylbenzene	U		0.00126	0.00543	1	10/22/2018 19:58	WG1184455
1,2,3-Trimethylbenzene	U		0.00125	0.00543	1	10/22/2018 19:58	WG1184455
1,3,5-Trimethylbenzene	U		0.00117	0.00543	1	10/22/2018 19:58	WG1184455
Vinyl acetate	U		0.00382	0.0136	1	10/22/2018 19:58	WG1184455
Vinyl chloride	U		0.000742	0.00272	1	10/22/2018 19:58	WG1184455
Xylenes, Total	U		0.00519	0.00706	1	10/22/2018 19:58	WG1184455
(S) Toluene-d8	*107*			*75.0-131*		*10/22/2018 19:58*	WG1184455
(S) Toluene-d8	*99.6*			*75.0-131*		*10/23/2018 19:02*	WG1185221
(S) Dibromofluoromethane	*94.6*			*65.0-129*		*10/22/2018 19:58*	WG1184455
(S) Dibromofluoromethane	*115*			*65.0-129*		*10/23/2018 19:02*	WG1185221
(S) 4-Bromofluorobenzene	*95.2*			*67.0-138*		*10/22/2018 19:58*	WG1184455
(S) 4-Bromofluorobenzene	*118*			*67.0-138*		*10/23/2018 19:02*	WG1185221

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.4		1	10/24/2018 13:49	WG1185668

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0159	0.0289	1	10/23/2018 19:22	WG1185221
Acrylonitrile	U		0.00220	0.0145	1	10/22/2018 20:17	WG1184455
Benzene	U		0.000463	0.00116	1	10/22/2018 20:17	WG1184455
Bromobenzene	U		0.00122	0.0145	1	10/22/2018 20:17	WG1184455
Bromodichloromethane	U		0.000912	0.00289	1	10/22/2018 20:17	WG1184455
Bromochloromethane	U		0.00131	0.00579	1	10/22/2018 20:17	WG1184455
Bromoform	U		0.00692	0.0289	1	10/22/2018 20:17	WG1184455
Bromomethane	U		0.00428	0.0145	1	10/22/2018 20:17	WG1184455
n-Butylbenzene	U		0.00444	0.0145	1	10/22/2018 20:17	WG1184455
sec-Butylbenzene	U		0.00293	0.0145	1	10/22/2018 20:17	WG1184455
tert-Butylbenzene	U		0.00179	0.00579	1	10/22/2018 20:17	WG1184455
Carbon disulfide	U		0.00470	0.0145	1	10/22/2018 20:17	WG1184455
Carbon tetrachloride	U		0.00125	0.00579	1	10/22/2018 20:17	WG1184455
Chlorobenzene	U		0.000663	0.00289	1	10/22/2018 20:17	WG1184455
Chlorodibromomethane	U		0.000521	0.00289	1	10/22/2018 20:17	WG1184455
Chloroethane	U		0.00125	0.00579	1	10/22/2018 20:17	WG1184455
Chloroform	U		0.000480	0.00289	1	10/22/2018 20:17	WG1184455
Chloromethane	U		0.00161	0.0145	1	10/22/2018 20:17	WG1184455
2-Chlorotoluene	U		0.00106	0.00289	1	10/22/2018 20:17	WG1184455
4-Chlorotoluene	U		0.00131	0.00579	1	10/22/2018 20:17	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00590	0.0289	1	10/22/2018 20:17	WG1184455
1,2-Dibromoethane	U		0.000608	0.00289	1	10/22/2018 20:17	WG1184455
Dibromomethane	U		0.00116	0.00579	1	10/22/2018 20:17	WG1184455
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/22/2018 20:17	WG1184455
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/22/2018 20:17	WG1184455
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/22/2018 20:17	WG1184455
Dichlorodifluoromethane	U		0.000947	0.00289	1	10/23/2018 19:22	WG1185221
1,1-Dichloroethane	U		0.000665	0.00289	1	10/22/2018 20:17	WG1184455
1,2-Dichloroethane	U		0.000550	0.00289	1	10/22/2018 20:17	WG1184455
1,1-Dichloroethene	U		0.000579	0.00289	1	10/22/2018 20:17	WG1184455
cis-1,2-Dichloroethene	U		0.000799	0.00289	1	10/22/2018 20:17	WG1184455
trans-1,2-Dichloroethene	U		0.00165	0.00579	1	10/22/2018 20:17	WG1184455
1,2-Dichloropropane	U		0.00147	0.00579	1	10/22/2018 20:17	WG1184455
1,1-Dichloropropene	U		0.000810	0.00289	1	10/22/2018 20:17	WG1184455
1,3-Dichloropropane	U		0.00203	0.00579	1	10/22/2018 20:17	WG1184455
cis-1,3-Dichloropropene	U		0.000785	0.00289	1	10/22/2018 20:17	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00177	0.00579	1	10/22/2018 20:17	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/22/2018 20:17	WG1184455
2,2-Dichloropropane	U		0.000918	0.00289	1	10/22/2018 20:17	WG1184455
Di-isopropyl ether	U		0.000405	0.00116	1	10/22/2018 20:17	WG1184455
Ethylbenzene	U		0.000613	0.00289	1	10/22/2018 20:17	WG1184455
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1	10/22/2018 20:17	WG1184455
2-Hexanone	U		0.0116	0.0289	1	10/22/2018 20:17	WG1184455
n-Hexane	U		0.00123	0.00579	1	10/22/2018 20:17	WG1184455
Iodomethane	U		0.00700	0.0145	1	10/22/2018 20:17	WG1184455
Isopropylbenzene	U		0.000999	0.00289	1	10/22/2018 20:17	WG1184455
p-Isopropyltoluene	U		0.00270	0.00579	1	10/22/2018 20:17	WG1184455
2-Butanone (MEK)	0.0277 J	J	0.0145	0.0289	1	10/22/2018 20:17	WG1184455
Methylene Chloride	U		0.00768	0.0289	1	10/22/2018 20:17	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0289	1	10/22/2018 20:17	WG1184455

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B-264-5

SAMPLE RESULTS - 08

Collected date/time: 10/18/18 09:21

L1036473

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000341	0.00116	1	10/22/2018 20:17	WG1184455
Naphthalene	U		0.00361	0.0145	1	10/22/2018 20:17	WG1184455
n-Propylbenzene	U		0.00137	0.00579	1	10/22/2018 20:17	WG1184455
Styrene	U		0.00316	0.0145	1	10/22/2018 20:17	WG1184455
1,1,1,2-Tetrachloroethane	U U	J4	0.000579	0.00289	1	10/22/2018 20:17	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000451	0.00289	1	10/23/2018 19:22	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000781	0.00289	1	10/22/2018 20:17	WG1184455
Tetrachloroethene	0.0960		0.000810	0.00289	1	10/22/2018 20:17	WG1184455
Toluene	U		0.00145	0.00579	1	10/22/2018 20:17	WG1184455
1,2,3-Trichlorobenzene	U		0.000723	0.00289	1	10/23/2018 19:22	WG1185221
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	10/22/2018 20:17	WG1184455
1,1,1-Trichloroethane	U		0.000318	0.00289	1	10/22/2018 20:17	WG1184455
1,1,2-Trichloroethane	U		0.00102	0.00289	1	10/22/2018 20:17	WG1184455
Trichloroethene	0.00185		0.000463	0.00116	1	10/22/2018 20:17	WG1184455
Trichlorofluoromethane	U		0.000579	0.00289	1	10/22/2018 20:17	WG1184455
1,2,3-Trichloropropane	U		0.00590	0.0145	1	10/22/2018 20:17	WG1184455
1,2,4-Trimethylbenzene	U		0.00134	0.00579	1	10/22/2018 20:17	WG1184455
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	10/22/2018 20:17	WG1184455
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	10/22/2018 20:17	WG1184455
Vinyl acetate	U		0.00407	0.0145	1	10/22/2018 20:17	WG1184455
Vinyl chloride	U		0.000790	0.00289	1	10/22/2018 20:17	WG1184455
Xylenes, Total	U		0.00553	0.00752	1	10/22/2018 20:17	WG1184455
(S) Toluene-d8	*103*			*75.0-131*		*10/22/2018 20:17*	WG1184455
(S) Toluene-d8	*100*			*75.0-131*		*10/23/2018 19:22*	WG1185221
(S) Dibromofluoromethane	*95.3*			*65.0-129*		*10/22/2018 20:17*	WG1184455
(S) Dibromofluoromethane	*115*			*65.0-129*		*10/23/2018 19:22*	WG1185221
(S) 4-Bromofluorobenzene	*93.4*			*67.0-138*		*10/22/2018 20:17*	WG1184455
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/23/2018 19:22*	WG1185221

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.5		1	10/24/2018 13:49	WG1185668

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0286	1	10/23/2018 19:42	WG1185221
Acrylonitrile	U		0.00217	0.0143	1	10/22/2018 20:35	WG1184455
Benzene	U		0.000457	0.00114	1	10/22/2018 20:35	WG1184455
Bromobenzene	U		0.00120	0.0143	1	10/22/2018 20:35	WG1184455
Bromodichloromethane	U		0.000901	0.00286	1	10/22/2018 20:35	WG1184455
Bromochloromethane	U		0.00129	0.00571	1	10/22/2018 20:35	WG1184455
Bromoform	U		0.00683	0.0286	1	10/22/2018 20:35	WG1184455
Bromomethane	U		0.00423	0.0143	1	10/22/2018 20:35	WG1184455
n-Butylbenzene	U		0.00439	0.0143	1	10/22/2018 20:35	WG1184455
sec-Butylbenzene	U		0.00289	0.0143	1	10/22/2018 20:35	WG1184455
tert-Butylbenzene	U		0.00177	0.00571	1	10/22/2018 20:35	WG1184455
Carbon disulfide	U		0.00464	0.0143	1	10/22/2018 20:35	WG1184455
Carbon tetrachloride	U		0.00123	0.00571	1	10/22/2018 20:35	WG1184455
Chlorobenzene	U		0.000655	0.00286	1	10/22/2018 20:35	WG1184455
Chlorodibromomethane	U		0.000514	0.00286	1	10/22/2018 20:35	WG1184455
Chloroethane	U		0.00123	0.00571	1	10/22/2018 20:35	WG1184455
Chloroform	0.00122 U	B J	0.000474	0.00286	1	10/22/2018 20:35	WG1184455
Chloromethane	U		0.00159	0.0143	1	10/22/2018 20:35	WG1184455
2-Chlorotoluene	U		0.00105	0.00286	1	10/22/2018 20:35	WG1184455
4-Chlorotoluene	U		0.00129	0.00571	1	10/22/2018 20:35	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00583	0.0286	1	10/22/2018 20:35	WG1184455
1,2-Dibromoethane	U		0.000600	0.00286	1	10/22/2018 20:35	WG1184455
Dibromomethane	U		0.00114	0.00571	1	10/22/2018 20:35	WG1184455
1,2-Dichlorobenzene	U		0.00166	0.00571	1	10/22/2018 20:35	WG1184455
1,3-Dichlorobenzene	U		0.00194	0.00571	1	10/22/2018 20:35	WG1184455
1,4-Dichlorobenzene	U		0.00225	0.00571	1	10/22/2018 20:35	WG1184455
Dichlorodifluoromethane	U		0.000935	0.00286	1	10/23/2018 19:42	WG1185221
1,1-Dichloroethane	U		0.000657	0.00286	1	10/22/2018 20:35	WG1184455
1,2-Dichloroethane	U		0.000543	0.00286	1	10/22/2018 20:35	WG1184455
1,1-Dichloroethene	U		0.000571	0.00286	1	10/22/2018 20:35	WG1184455
cis-1,2-Dichloroethene	U		0.000789	0.00286	1	10/22/2018 20:35	WG1184455
trans-1,2-Dichloroethene	U		0.00163	0.00571	1	10/22/2018 20:35	WG1184455
1,2-Dichloropropane	U		0.00145	0.00571	1	10/22/2018 20:35	WG1184455
1,1-Dichloropropene	U		0.000800	0.00286	1	10/22/2018 20:35	WG1184455
1,3-Dichloropropane	U		0.00200	0.00571	1	10/22/2018 20:35	WG1184455
cis-1,3-Dichloropropene	U		0.000775	0.00286	1	10/22/2018 20:35	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00175	0.00571	1	10/22/2018 20:35	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	10/22/2018 20:35	WG1184455
2,2-Dichloropropane	U		0.000906	0.00286	1	10/22/2018 20:35	WG1184455
Di-isopropyl ether	U		0.000400	0.00114	1	10/22/2018 20:35	WG1184455
Ethylbenzene	U		0.000606	0.00286	1	10/22/2018 20:35	WG1184455
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	10/22/2018 20:35	WG1184455
2-Hexanone	U		0.0114	0.0286	1	10/22/2018 20:35	WG1184455
n-Hexane	U		0.00121	0.00571	1	10/22/2018 20:35	WG1184455
Iodomethane	U		0.00691	0.0143	1	10/22/2018 20:35	WG1184455
Isopropylbenzene	U		0.000986	0.00286	1	10/22/2018 20:35	WG1184455
p-Isopropyltoluene	U		0.00266	0.00571	1	10/22/2018 20:35	WG1184455
2-Butanone (MEK)	U		0.0143	0.0286	1	10/22/2018 20:35	WG1184455
Methylene Chloride	U		0.00759	0.0286	1	10/22/2018 20:35	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	10/22/2018 20:35	WG1184455

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000337	0.00114	1	10/22/2018 20:35	WG1184455
Naphthalene	U		0.00357	0.0143	1	10/22/2018 20:35	WG1184455
n-Propylbenzene	U		0.00135	0.00571	1	10/22/2018 20:35	WG1184455
Styrene	U		0.00312	0.0143	1	10/22/2018 20:35	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000571	0.00286	1	10/22/2018 20:35	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1	10/23/2018 19:42	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000771	0.00286	1	10/22/2018 20:35	WG1184455
Tetrachloroethene	0.415		0.000800	0.00286	1	10/22/2018 20:35	WG1184455
Toluene	U		0.00143	0.00571	1	10/22/2018 20:35	WG1184455
1,2,3-Trichlorobenzene	U		0.000714	0.00286	1	10/23/2018 19:42	WG1185221
1,2,4-Trichlorobenzene	U		0.00551	0.0143	1	10/22/2018 20:35	WG1184455
1,1,1-Trichloroethane	U		0.000314	0.00286	1	10/22/2018 20:35	WG1184455
1,1,2-Trichloroethane	U		0.00101	0.00286	1	10/22/2018 20:35	WG1184455
Trichloroethene	0.00376		0.000457	0.00114	1	10/22/2018 20:35	WG1184455
Trichlorofluoromethane	U		0.000571	0.00286	1	10/22/2018 20:35	WG1184455
1,2,3-Trichloropropane	U		0.00583	0.0143	1	10/22/2018 20:35	WG1184455
1,2,4-Trimethylbenzene	U		0.00133	0.00571	1	10/22/2018 20:35	WG1184455
1,2,3-Trimethylbenzene	U		0.00131	0.00571	1	10/22/2018 20:35	WG1184455
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	10/22/2018 20:35	WG1184455
Vinyl acetate	U		0.00402	0.0143	1	10/22/2018 20:35	WG1184455
Vinyl chloride	U		0.000781	0.00286	1	10/22/2018 20:35	WG1184455
Xylenes, Total	U		0.00546	0.00743	1	10/22/2018 20:35	WG1184455
(S) Toluene-d8	*105*			*75.0-131*		*10/22/2018 20:35*	WG1184455
(S) Toluene-d8	*98.5*			*75.0-131*		*10/23/2018 19:42*	WG1185221
(S) Dibromofluoromethane	*94.0*			*65.0-129*		*10/22/2018 20:35*	WG1184455
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/23/2018 19:42*	WG1185221
(S) 4-Bromofluorobenzene	*94.0*			*67.0-138*		*10/22/2018 20:35*	WG1184455
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/23/2018 19:42*	WG1185221

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.8		1	10/24/2018 13:49	WG1185668

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0151	0.0275	1	10/23/2018 20:02	WG1185221
Acrylonitrile	U		0.00209	0.0138	1	10/22/2018 20:54	WG1184455
Benzene	U		0.000441	0.00110	1	10/22/2018 20:54	WG1184455
Bromobenzene	U		0.00116	0.0138	1	10/22/2018 20:54	WG1184455
Bromodichloromethane	U		0.000868	0.00275	1	10/22/2018 20:54	WG1184455
Bromochloromethane	U		0.00124	0.00551	1	10/22/2018 20:54	WG1184455
Bromoform	U		0.00659	0.0275	1	10/22/2018 20:54	WG1184455
Bromomethane	U		0.00408	0.0138	1	10/22/2018 20:54	WG1184455
n-Butylbenzene	U		0.00423	0.0138	1	10/22/2018 20:54	WG1184455
sec-Butylbenzene	U		0.00279	0.0138	1	10/22/2018 20:54	WG1184455
tert-Butylbenzene	U		0.00171	0.00551	1	10/22/2018 20:54	WG1184455
Carbon disulfide	U		0.00447	0.0138	1	10/22/2018 20:54	WG1184455
Carbon tetrachloride	U		0.00119	0.00551	1	10/22/2018 20:54	WG1184455
Chlorobenzene	U		0.000631	0.00275	1	10/22/2018 20:54	WG1184455
Chlorodibromomethane	U		0.000496	0.00275	1	10/22/2018 20:54	WG1184455
Chloroethane	U		0.00119	0.00551	1	10/22/2018 20:54	WG1184455
Chloroform	U		0.000457	0.00275	1	10/22/2018 20:54	WG1184455
Chloromethane	U		0.00153	0.0138	1	10/22/2018 20:54	WG1184455
2-Chlorotoluene	U		0.00101	0.00275	1	10/22/2018 20:54	WG1184455
4-Chlorotoluene	U		0.00124	0.00551	1	10/22/2018 20:54	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00562	0.0275	1	10/22/2018 20:54	WG1184455
1,2-Dibromoethane	U		0.000578	0.00275	1	10/22/2018 20:54	WG1184455
Dibromomethane	U		0.00110	0.00551	1	10/22/2018 20:54	WG1184455
1,2-Dichlorobenzene	U		0.00160	0.00551	1	10/22/2018 20:54	WG1184455
1,3-Dichlorobenzene	U		0.00187	0.00551	1	10/22/2018 20:54	WG1184455
1,4-Dichlorobenzene	U		0.00217	0.00551	1	10/22/2018 20:54	WG1184455
Dichlorodifluoromethane	U		0.000901	0.00275	1	10/23/2018 20:02	WG1185221
1,1-Dichloroethane	U		0.000633	0.00275	1	10/22/2018 20:54	WG1184455
1,2-Dichloroethane	U		0.000523	0.00275	1	10/22/2018 20:54	WG1184455
1,1-Dichloroethene	U		0.000551	0.00275	1	10/22/2018 20:54	WG1184455
cis-1,2-Dichloroethene	U		0.000760	0.00275	1	10/22/2018 20:54	WG1184455
trans-1,2-Dichloroethene	U		0.00158	0.00551	1	10/22/2018 20:54	WG1184455
1,2-Dichloropropane	U		0.00140	0.00551	1	10/22/2018 20:54	WG1184455
1,1-Dichloropropene	U		0.000771	0.00275	1	10/22/2018 20:54	WG1184455
1,3-Dichloropropane	U		0.00193	0.00551	1	10/22/2018 20:54	WG1184455
cis-1,3-Dichloropropene	U		0.000747	0.00275	1	10/22/2018 20:54	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00169	0.00551	1	10/22/2018 20:54	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	10/22/2018 20:54	WG1184455
2,2-Dichloropropane	U		0.000874	0.00275	1	10/22/2018 20:54	WG1184455
Di-isopropyl ether	U		0.000386	0.00110	1	10/22/2018 20:54	WG1184455
Ethylbenzene	U		0.000584	0.00275	1	10/22/2018 20:54	WG1184455
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	10/22/2018 20:54	WG1184455
2-Hexanone	U		0.0110	0.0275	1	10/22/2018 20:54	WG1184455
n-Hexane	U		0.00117	0.00551	1	10/23/2018 20:02	WG1185221
Iodomethane	U		0.00667	0.0138	1	10/22/2018 20:54	WG1184455
Isopropylbenzene	U		0.000951	0.00275	1	10/22/2018 20:54	WG1184455
p-Isopropyltoluene	U		0.00257	0.00551	1	10/22/2018 20:54	WG1184455
2-Butanone (MEK)	0.0274 J	J	0.0138	0.0275	1	10/22/2018 20:54	WG1184455
Methylene Chloride	U		0.00732	0.0275	1	10/22/2018 20:54	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/22/2018 20:54	WG1184455

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	10/22/2018 20:54	WG1184455
Naphthalene	U		0.00344	0.0138	1	10/22/2018 20:54	WG1184455
n-Propylbenzene	U		0.00130	0.00551	1	10/22/2018 20:54	WG1184455
Styrene	U		0.00301	0.0138	1	10/22/2018 20:54	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000551	0.00275	1	10/22/2018 20:54	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000430	0.00275	1	10/23/2018 20:02	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00275	1	10/22/2018 20:54	WG1184455
Tetrachloroethene	1.29		0.000771	0.00275	1	10/22/2018 20:54	WG1184455
Toluene	U		0.00138	0.00551	1	10/22/2018 20:54	WG1184455
1,2,3-Trichlorobenzene	U		0.000689	0.00275	1	10/23/2018 20:02	WG1185221
1,2,4-Trichlorobenzene	U		0.00531	0.0138	1	10/22/2018 20:54	WG1184455
1,1,1-Trichloroethane	U		0.000303	0.00275	1	10/22/2018 20:54	WG1184455
1,1,2-Trichloroethane	U		0.000973	0.00275	1	10/22/2018 20:54	WG1184455
Trichloroethene	0.00533		0.000441	0.00110	1	10/22/2018 20:54	WG1184455
Trichlorofluoromethane	U		0.000551	0.00275	1	10/22/2018 20:54	WG1184455
1,2,3-Trichloropropane	U		0.00562	0.0138	1	10/22/2018 20:54	WG1184455
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	10/22/2018 20:54	WG1184455
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	10/22/2018 20:54	WG1184455
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	10/22/2018 20:54	WG1184455
Vinyl acetate	U		0.00388	0.0138	1	10/22/2018 20:54	WG1184455
Vinyl chloride	U		0.000752	0.00275	1	10/22/2018 20:54	WG1184455
Xylenes, Total	U		0.00527	0.00716	1	10/22/2018 20:54	WG1184455
(S) Toluene-d8	*105*			*75.0-131*		*10/22/2018 20:54*	WG1184455
(S) Toluene-d8	*98.9*			*75.0-131*		*10/23/2018 20:02*	WG1185221
(S) Dibromofluoromethane	*94.7*			*65.0-129*		*10/22/2018 20:54*	WG1184455
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/23/2018 20:02*	WG1185221
(S) 4-Bromofluorobenzene	*93.5*			*67.0-138*		*10/22/2018 20:54*	WG1184455
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/23/2018 20:02*	WG1185221

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	86.0		1	10/24/2018 13:49	WG1185668

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0159	0.0291	1	10/23/2018 20:22	WG1185221
Acrylonitrile	U		0.00221	0.0145	1	10/22/2018 21:12	WG1184455
Benzene	U		0.000465	0.00116	1	10/22/2018 21:12	WG1184455
Bromobenzene	U		0.00122	0.0145	1	10/22/2018 21:12	WG1184455
Bromodichloromethane	U		0.000917	0.00291	1	10/22/2018 21:12	WG1184455
Bromochloromethane	U		0.00131	0.00582	1	10/22/2018 21:12	WG1184455
Bromoform	U		0.00696	0.0291	1	10/22/2018 21:12	WG1184455
Bromomethane	U		0.00430	0.0145	1	10/22/2018 21:12	WG1184455
n-Butylbenzene	U		0.00447	0.0145	1	10/22/2018 21:12	WG1184455
sec-Butylbenzene	U		0.00294	0.0145	1	10/22/2018 21:12	WG1184455
tert-Butylbenzene	U		0.00180	0.00582	1	10/22/2018 21:12	WG1184455
Carbon disulfide	U		0.00472	0.0145	1	10/22/2018 21:12	WG1184455
Carbon tetrachloride	U		0.00126	0.00582	1	10/22/2018 21:12	WG1184455
Chlorobenzene	U		0.000667	0.00291	1	10/22/2018 21:12	WG1184455
Chlorodibromomethane	U		0.000524	0.00291	1	10/22/2018 21:12	WG1184455
Chloroethane	U		0.00126	0.00582	1	10/22/2018 21:12	WG1184455
Chloroform	0.00152 U	B J	0.000483	0.00291	1	10/22/2018 21:12	WG1184455
Chloromethane	U		0.00162	0.0145	1	10/22/2018 21:12	WG1184455
2-Chlorotoluene	U		0.00107	0.00291	1	10/22/2018 21:12	WG1184455
4-Chlorotoluene	U		0.00131	0.00582	1	10/22/2018 21:12	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00593	0.0291	1	10/22/2018 21:12	WG1184455
1,2-Dibromoethane	U		0.000611	0.00291	1	10/22/2018 21:12	WG1184455
Dibromomethane	U		0.00116	0.00582	1	10/22/2018 21:12	WG1184455
1,2-Dichlorobenzene	U		0.00169	0.00582	1	10/22/2018 21:12	WG1184455
1,3-Dichlorobenzene	U		0.00198	0.00582	1	10/22/2018 21:12	WG1184455
1,4-Dichlorobenzene	U		0.00229	0.00582	1	10/22/2018 21:12	WG1184455
Dichlorodifluoromethane	U		0.000952	0.00291	1	10/23/2018 20:22	WG1185221
1,1-Dichloroethane	U		0.000669	0.00291	1	10/22/2018 21:12	WG1184455
1,2-Dichloroethane	U		0.000553	0.00291	1	10/22/2018 21:12	WG1184455
1,1-Dichloroethene	U		0.000582	0.00291	1	10/22/2018 21:12	WG1184455
cis-1,2-Dichloroethene	0.000940 J	J	0.000803	0.00291	1	10/23/2018 20:22	WG1185221
trans-1,2-Dichloroethene	U		0.00166	0.00582	1	10/22/2018 21:12	WG1184455
1,2-Dichloropropane	U		0.00148	0.00582	1	10/22/2018 21:12	WG1184455
1,1-Dichloropropene	U		0.000814	0.00291	1	10/22/2018 21:12	WG1184455
1,3-Dichloropropane	U		0.00204	0.00582	1	10/22/2018 21:12	WG1184455
cis-1,3-Dichloropropene	U		0.000789	0.00291	1	10/22/2018 21:12	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00178	0.00582	1	10/22/2018 21:12	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00163	0.00582	1	10/22/2018 21:12	WG1184455
2,2-Dichloropropane	U		0.000923	0.00291	1	10/22/2018 21:12	WG1184455
Di-isopropyl ether	U		0.000407	0.00116	1	10/22/2018 21:12	WG1184455
Ethylbenzene	U		0.000617	0.00291	1	10/22/2018 21:12	WG1184455
Hexachloro-1,3-butadiene	U		0.0148	0.0291	1	10/22/2018 21:12	WG1184455
2-Hexanone	U		0.0116	0.0291	1	10/22/2018 21:12	WG1184455
n-Hexane	U		0.00123	0.00582	1	10/23/2018 20:22	WG1185221
Iodomethane	U		0.00704	0.0145	1	10/22/2018 21:12	WG1184455
Isopropylbenzene	U		0.00100	0.00291	1	10/22/2018 21:12	WG1184455
p-Isopropyltoluene	U		0.00271	0.00582	1	10/22/2018 21:12	WG1184455
2-Butanone (MEK)	0.0402		0.0145	0.0291	1	10/22/2018 21:12	WG1184455
Methylene Chloride	U		0.00773	0.0291	1	10/22/2018 21:12	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0291	1	10/22/2018 21:12	WG1184455

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000343	0.00116	1	10/22/2018 21:12	WG1184455
Naphthalene	U		0.00363	0.0145	1	10/22/2018 21:12	WG1184455
n-Propylbenzene	U		0.00137	0.00582	1	10/22/2018 21:12	WG1184455
Styrene	U		0.00318	0.0145	1	10/22/2018 21:12	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000582	0.00291	1	10/22/2018 21:12	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000454	0.00291	1	10/23/2018 20:22	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000785	0.00291	1	10/22/2018 21:12	WG1184455
Tetrachloroethene	0.663		0.000814	0.00291	1	10/22/2018 21:12	WG1184455
Toluene	U		0.00145	0.00582	1	10/22/2018 21:12	WG1184455
1,2,3-Trichlorobenzene	U		0.000727	0.00291	1	10/23/2018 20:22	WG1185221
1,2,4-Trichlorobenzene	U		0.00561	0.0145	1	10/22/2018 21:12	WG1184455
1,1,1-Trichloroethane	U		0.000320	0.00291	1	10/22/2018 21:12	WG1184455
1,1,2-Trichloroethane	U		0.00103	0.00291	1	10/22/2018 21:12	WG1184455
Trichloroethene	0.00852		0.000465	0.00116	1	10/22/2018 21:12	WG1184455
Trichlorofluoromethane	U		0.000582	0.00291	1	10/22/2018 21:12	WG1184455
1,2,3-Trichloropropane	U		0.00593	0.0145	1	10/22/2018 21:12	WG1184455
1,2,4-Trimethylbenzene	U		0.00135	0.00582	1	10/22/2018 21:12	WG1184455
1,2,3-Trimethylbenzene	U		0.00134	0.00582	1	10/22/2018 21:12	WG1184455
1,3,5-Trimethylbenzene	U		0.00126	0.00582	1	10/22/2018 21:12	WG1184455
Vinyl acetate	U		0.00410	0.0145	1	10/22/2018 21:12	WG1184455
Vinyl chloride	0.00303		0.000795	0.00291	1	10/22/2018 21:12	WG1184455
Xylenes, Total	U		0.00556	0.00756	1	10/22/2018 21:12	WG1184455
(S) Toluene-d8	*105*			*75.0-131*		*10/22/2018 21:12*	WG1184455
(S) Toluene-d8	*99.2*			*75.0-131*		*10/23/2018 20:22*	WG1185221
(S) Dibromofluoromethane	*94.0*			*65.0-129*		*10/22/2018 21:12*	WG1184455
(S) Dibromofluoromethane	*114*			*65.0-129*		*10/23/2018 20:22*	WG1185221
(S) 4-Bromofluorobenzene	*94.5*			*67.0-138*		*10/22/2018 21:12*	WG1184455
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/23/2018 20:22*	WG1185221

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.1		1	10/24/2018 13:49	WG1185668

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0154	0.0281	1	10/24/2018 13:12	WG1185319
Acrylonitrile	U		0.00213	0.0140	1	10/22/2018 18:41	WG1184727
Benzene	0.00115		0.000449	0.00112	1	10/22/2018 18:41	WG1184727
Bromobenzene	U		0.00118	0.0140	1	10/22/2018 18:41	WG1184727
Bromodichloromethane	U		0.000885	0.00281	1	10/22/2018 18:41	WG1184727
Bromochloromethane	U		0.00127	0.00561	1	10/22/2018 18:41	WG1184727
Bromoform	U		0.00671	0.0281	1	10/22/2018 18:41	WG1184727
Bromomethane	U		0.00415	0.0140	1	10/22/2018 18:41	WG1184727
n-Butylbenzene	U		0.00431	0.0140	1	10/22/2018 18:41	WG1184727
sec-Butylbenzene	U		0.00284	0.0140	1	10/22/2018 18:41	WG1184727
tert-Butylbenzene	U		0.00174	0.00561	1	10/22/2018 18:41	WG1184727
Carbon disulfide	U		0.00456	0.0140	1	10/22/2018 18:41	WG1184727
Carbon tetrachloride	U		0.00121	0.00561	1	10/22/2018 18:41	WG1184727
Chlorobenzene	U		0.000643	0.00281	1	10/22/2018 18:41	WG1184727
Chlorodibromomethane	U		0.000505	0.00281	1	10/22/2018 18:41	WG1184727
Chloroethane	U		0.00121	0.00561	1	10/22/2018 18:41	WG1184727
Chloroform	0.00127	U B J	0.000466	0.00281	1	10/22/2018 18:41	WG1184727
Chloromethane	U		0.00156	0.0140	1	10/22/2018 18:41	WG1184727
2-Chlorotoluene	U		0.00103	0.00281	1	10/22/2018 18:41	WG1184727
4-Chlorotoluene	U		0.00127	0.00561	1	10/22/2018 18:41	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	10/22/2018 18:41	WG1184727
1,2-Dibromoethane	U		0.000589	0.00281	1	10/22/2018 18:41	WG1184727
Dibromomethane	U		0.00112	0.00561	1	10/22/2018 18:41	WG1184727
1,2-Dichlorobenzene	U		0.00163	0.00561	1	10/22/2018 18:41	WG1184727
1,3-Dichlorobenzene	U		0.00191	0.00561	1	10/22/2018 18:41	WG1184727
1,4-Dichlorobenzene	U		0.00221	0.00561	1	10/22/2018 18:41	WG1184727
Dichlorodifluoromethane	U		0.000918	0.00281	1	10/22/2018 18:41	WG1184727
1,1-Dichloroethane	U		0.000645	0.00281	1	10/22/2018 18:41	WG1184727
1,2-Dichloroethane	U		0.000533	0.00281	1	10/22/2018 18:41	WG1184727
1,1-Dichloroethene	U		0.000561	0.00281	1	10/22/2018 18:41	WG1184727
cis-1,2-Dichloroethene	0.00250	J J	0.000775	0.00281	1	10/22/2018 18:41	WG1184727
trans-1,2-Dichloroethene	U		0.00161	0.00561	1	10/22/2018 18:41	WG1184727
1,2-Dichloropropane	U		0.00143	0.00561	1	10/24/2018 13:12	WG1185319
1,1-Dichloropropene	U		0.000786	0.00281	1	10/22/2018 18:41	WG1184727
1,3-Dichloropropane	U		0.00196	0.00561	1	10/22/2018 18:41	WG1184727
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	10/22/2018 18:41	WG1184727
trans-1,3-Dichloropropene	U		0.00172	0.00561	1	10/22/2018 18:41	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00157	0.00561	1	10/22/2018 18:41	WG1184727
2,2-Dichloropropane	U		0.000890	0.00281	1	10/22/2018 18:41	WG1184727
Di-isopropyl ether	U		0.000393	0.00112	1	10/22/2018 18:41	WG1184727
Ethylbenzene	U		0.000595	0.00281	1	10/22/2018 18:41	WG1184727
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 18:41	WG1184727
2-Hexanone	U		0.0112	0.0281	1	10/22/2018 18:41	WG1184727
n-Hexane	U		0.00119	0.00561	1	10/24/2018 13:12	WG1185319
Iodomethane	U		0.00679	0.0140	1	10/22/2018 18:41	WG1184727
Isopropylbenzene	U		0.000969	0.00281	1	10/22/2018 18:41	WG1184727
p-Isopropyltoluene	U		0.00262	0.00561	1	10/22/2018 18:41	WG1184727
2-Butanone (MEK)	0.0297		0.0140	0.0281	1	10/24/2018 13:12	WG1185319
Methylene Chloride	U		0.00745	0.0281	1	10/22/2018 18:41	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	10/22/2018 18:41	WG1184727

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	10/22/2018 18:41	WG1184727
Naphthalene	U		0.00350	0.0140	1	10/22/2018 18:41	WG1184727
n-Propylbenzene	U		0.00132	0.00561	1	10/22/2018 18:41	WG1184727
Styrene	U		0.00306	0.0140	1	10/22/2018 18:41	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000561	0.00281	1	10/22/2018 18:41	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	10/22/2018 18:41	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	10/22/2018 18:41	WG1184727
Tetrachloroethene	0.199		0.000786	0.00281	1	10/22/2018 18:41	WG1184727
Toluene	0.00291 J	J	0.00140	0.00561	1	10/22/2018 18:41	WG1184727
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	10/22/2018 18:41	WG1184727
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	10/22/2018 18:41	WG1184727
1,1,1-Trichloroethane	U		0.000309	0.00281	1	10/22/2018 18:41	WG1184727
1,1,2-Trichloroethane	U		0.000991	0.00281	1	10/24/2018 13:12	WG1185319
Trichloroethene	0.00250		0.000449	0.00112	1	10/22/2018 18:41	WG1184727
Trichlorofluoromethane	U		0.000561	0.00281	1	10/22/2018 18:41	WG1184727
1,2,3-Trichloropropane	U		0.00573	0.0140	1	10/22/2018 18:41	WG1184727
1,2,4-Trimethylbenzene	U		0.00130	0.00561	1	10/22/2018 18:41	WG1184727
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	10/22/2018 18:41	WG1184727
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	10/22/2018 18:41	WG1184727
Vinyl acetate	U		0.00395	0.0140	1	10/22/2018 18:41	WG1184727
Vinyl chloride	U		0.000767	0.00281	1	10/22/2018 18:41	WG1184727
Xylenes, Total	U		0.00537	0.00730	1	10/22/2018 18:41	WG1184727
(S) Toluene-d8	*123*			*75.0-131*		*10/22/2018 18:41*	WG1184727
(S) Toluene-d8	*97.1*			*75.0-131*		*10/24/2018 13:12*	WG1185319
(S) Dibromofluoromethane	*92.5*			*65.0-129*		*10/22/2018 18:41*	WG1184727
(S) Dibromofluoromethane	*115*			*65.0-129*		*10/24/2018 13:12*	WG1185319
(S) 4-Bromofluorobenzene	*86.2*			*67.0-138*		*10/22/2018 18:41*	WG1184727
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/24/2018 13:12*	WG1185319

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.8		1	10/24/2018 13:49	WG1185668

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0163	0.0298	1	10/24/2018 13:31	WG1185319
Acrylonitrile	U		0.00227	0.0149	1	10/22/2018 19:02	WG1184727
Benzene	U		0.000477	0.00119	1	10/22/2018 19:02	WG1184727
Bromobenzene	U		0.00125	0.0149	1	10/22/2018 19:02	WG1184727
Bromodichloromethane	U		0.000940	0.00298	1	10/22/2018 19:02	WG1184727
Bromochloromethane	U		0.00135	0.00597	1	10/22/2018 19:02	WG1184727
Bromoform	U		0.00714	0.0298	1	10/22/2018 19:02	WG1184727
Bromomethane	U		0.00442	0.0149	1	10/22/2018 19:02	WG1184727
n-Butylbenzene	U		0.00458	0.0149	1	10/22/2018 19:02	WG1184727
sec-Butylbenzene	U		0.00302	0.0149	1	10/22/2018 19:02	WG1184727
tert-Butylbenzene	U		0.00185	0.00597	1	10/22/2018 19:02	WG1184727
Carbon disulfide	U		0.00485	0.0149	1	10/22/2018 19:02	WG1184727
Carbon tetrachloride	U		0.00129	0.00597	1	10/22/2018 19:02	WG1184727
Chlorobenzene	U		0.000684	0.00298	1	10/22/2018 19:02	WG1184727
Chlorodibromomethane	U		0.000537	0.00298	1	10/22/2018 19:02	WG1184727
Chloroethane	U		0.00129	0.00597	1	10/22/2018 19:02	WG1184727
Chloroform	0.00162 U	B J	0.000495	0.00298	1	10/22/2018 19:02	WG1184727
Chloromethane	U		0.00166	0.0149	1	10/22/2018 19:02	WG1184727
2-Chlorotoluene	U		0.00110	0.00298	1	10/22/2018 19:02	WG1184727
4-Chlorotoluene	U		0.00135	0.00597	1	10/22/2018 19:02	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00609	0.0298	1	10/22/2018 19:02	WG1184727
1,2-Dibromoethane	U		0.000627	0.00298	1	10/22/2018 19:02	WG1184727
Dibromomethane	U		0.00119	0.00597	1	10/22/2018 19:02	WG1184727
1,2-Dichlorobenzene	U		0.00173	0.00597	1	10/22/2018 19:02	WG1184727
1,3-Dichlorobenzene	U		0.00203	0.00597	1	10/22/2018 19:02	WG1184727
1,4-Dichlorobenzene	U		0.00235	0.00597	1	10/22/2018 19:02	WG1184727
Dichlorodifluoromethane	U		0.000976	0.00298	1	10/22/2018 19:02	WG1184727
1,1-Dichloroethane	U		0.000686	0.00298	1	10/22/2018 19:02	WG1184727
1,2-Dichloroethane	U		0.000567	0.00298	1	10/22/2018 19:02	WG1184727
1,1-Dichloroethene	U		0.000597	0.00298	1	10/22/2018 19:02	WG1184727
cis-1,2-Dichloroethene	0.00118 J	J	0.000823	0.00298	1	10/22/2018 19:02	WG1184727
trans-1,2-Dichloroethene	U		0.00171	0.00597	1	10/22/2018 19:02	WG1184727
1,2-Dichloropropane	U		0.00152	0.00597	1	10/24/2018 13:31	WG1185319
1,1-Dichloropropene	U		0.000835	0.00298	1	10/22/2018 19:02	WG1184727
1,3-Dichloropropane	U		0.00209	0.00597	1	10/22/2018 19:02	WG1184727
cis-1,3-Dichloropropene	U		0.000809	0.00298	1	10/22/2018 19:02	WG1184727
trans-1,3-Dichloropropene	U		0.00183	0.00597	1	10/22/2018 19:02	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00167	0.00597	1	10/22/2018 19:02	WG1184727
2,2-Dichloropropane	U		0.000946	0.00298	1	10/22/2018 19:02	WG1184727
Di-isopropyl ether	U		0.000418	0.00119	1	10/22/2018 19:02	WG1184727
Ethylbenzene	U		0.000632	0.00298	1	10/22/2018 19:02	WG1184727
Hexachloro-1,3-butadiene	U		0.0152	0.0298	1	10/22/2018 19:02	WG1184727
2-Hexanone	U		0.0119	0.0298	1	10/22/2018 19:02	WG1184727
n-Hexane	U		0.00126	0.00597	1	10/24/2018 13:31	WG1185319
Iodomethane	U		0.00722	0.0149	1	10/22/2018 19:02	WG1184727
Isopropylbenzene	U		0.00103	0.00298	1	10/22/2018 19:02	WG1184727
p-Isopropyltoluene	U		0.00278	0.00597	1	10/22/2018 19:02	WG1184727
2-Butanone (MEK)	0.0676		0.0149	0.0298	1	10/24/2018 13:31	WG1185319
Methylene Chloride	U		0.00792	0.0298	1	10/22/2018 19:02	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	10/22/2018 19:02	WG1184727

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	10/22/2018 19:02	WG1184727
Naphthalene	U		0.00372	0.0149	1	10/22/2018 19:02	WG1184727
n-Propylbenzene	U		0.00141	0.00597	1	10/22/2018 19:02	WG1184727
Styrene	U		0.00326	0.0149	1	10/22/2018 19:02	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000597	0.00298	1	10/22/2018 19:02	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000465	0.00298	1	10/22/2018 19:02	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000806	0.00298	1	10/22/2018 19:02	WG1184727
Tetrachloroethene	0.154		0.000835	0.00298	1	10/22/2018 19:02	WG1184727
Toluene	0.00150 J	J	0.00149	0.00597	1	10/22/2018 19:02	WG1184727
1,2,3-Trichlorobenzene	U		0.000746	0.00298	1	10/22/2018 19:02	WG1184727
1,2,4-Trichlorobenzene	U		0.00575	0.0149	1	10/22/2018 19:02	WG1184727
1,1,1-Trichloroethane	U		0.000328	0.00298	1	10/22/2018 19:02	WG1184727
1,1,2-Trichloroethane	U		0.00105	0.00298	1	10/24/2018 13:31	WG1185319
Trichloroethene	0.00198		0.000477	0.00119	1	10/22/2018 19:02	WG1184727
Trichlorofluoromethane	U		0.000597	0.00298	1	10/22/2018 19:02	WG1184727
1,2,3-Trichloropropane	U		0.00609	0.0149	1	10/22/2018 19:02	WG1184727
1,2,4-Trimethylbenzene	U		0.00138	0.00597	1	10/22/2018 19:02	WG1184727
1,2,3-Trimethylbenzene	U		0.00137	0.00597	1	10/22/2018 19:02	WG1184727
1,3,5-Trimethylbenzene	U		0.00129	0.00597	1	10/22/2018 19:02	WG1184727
Vinyl acetate	U		0.00420	0.0149	1	10/22/2018 19:02	WG1184727
Vinyl chloride	U		0.000815	0.00298	1	10/22/2018 19:02	WG1184727
Xylenes, Total	U		0.00570	0.00776	1	10/22/2018 19:02	WG1184727
(S) Toluene-d8	*123*			*75.0-131*		*10/22/2018 19:02*	WG1184727
(S) Toluene-d8	*99.1*			*75.0-131*		*10/24/2018 13:31*	WG1185319
(S) Dibromofluoromethane	*95.1*			*65.0-129*		*10/22/2018 19:02*	WG1184727
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/24/2018 13:31*	WG1185319
(S) 4-Bromofluorobenzene	*89.5*			*67.0-138*		*10/22/2018 19:02*	WG1184727
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/24/2018 13:31*	WG1185319

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.3		1	10/24/2018 13:49	WG1185668

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.159	0.290	10	10/24/2018 16:11	WG1185319	
Acrylonitrile	U		0.00220	0.0145	1	10/22/2018 19:22	WG1184727	
Benzene	U		0.000464	0.00116	1	10/22/2018 19:22	WG1184727	
Bromobenzene	U		0.00122	0.0145	1	10/22/2018 19:22	WG1184727	
Bromodichloromethane	U		0.000913	0.00290	1	10/22/2018 19:22	WG1184727	
Bromochloromethane	U		0.00131	0.00579	1	10/22/2018 19:22	WG1184727	
Bromoform	U		0.00693	0.0290	1	10/22/2018 19:22	WG1184727	
Bromomethane	U		0.00429	0.0145	1	10/22/2018 19:22	WG1184727	
n-Butylbenzene	U		0.00445	0.0145	1	10/22/2018 19:22	WG1184727	
sec-Butylbenzene	U		0.00293	0.0145	1	10/22/2018 19:22	WG1184727	
tert-Butylbenzene	U		0.00180	0.00579	1	10/22/2018 19:22	WG1184727	
Carbon disulfide	U		0.00470	0.0145	1	10/22/2018 19:22	WG1184727	
Carbon tetrachloride	U		0.00125	0.00579	1	10/22/2018 19:22	WG1184727	
Chlorobenzene	U		0.000664	0.00290	1	10/22/2018 19:22	WG1184727	
Chlorodibromomethane	U		0.000521	0.00290	1	10/22/2018 19:22	WG1184727	
Chloroethane	U		0.00125	0.00579	1	10/22/2018 19:22	WG1184727	
Chloroform	0.00111 U	B J	0.000481	0.00290	1	10/22/2018 19:22	WG1184727	
Chloromethane	U		0.00161	0.0145	1	10/22/2018 19:22	WG1184727	
2-Chlorotoluene	U		0.00107	0.00290	1	10/22/2018 19:22	WG1184727	
4-Chlorotoluene	U		0.00131	0.00579	1	10/22/2018 19:22	WG1184727	
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0290	1	10/22/2018 19:22	WG1184727	
1,2-Dibromoethane	U		0.000608	0.00290	1	10/22/2018 19:22	WG1184727	
Dibromomethane	U		0.00116	0.00579	1	10/22/2018 19:22	WG1184727	
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/22/2018 19:22	WG1184727	
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/22/2018 19:22	WG1184727	
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/22/2018 19:22	WG1184727	
Dichlorodifluoromethane	U		0.000948	0.00290	1	10/22/2018 19:22	WG1184727	
1,1-Dichloroethane	U		0.000666	0.00290	1	10/22/2018 19:22	WG1184727	
1,2-Dichloroethane	U		0.000550	0.00290	1	10/22/2018 19:22	WG1184727	
1,1-Dichloroethene	U		0.000579	0.00290	1	10/22/2018 19:22	WG1184727	
cis-1,2-Dichloroethene	0.00391		0.000800	0.00290	1	10/22/2018 19:22	WG1184727	
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	10/22/2018 19:22	WG1184727	
1,2-Dichloropropane	U		0.0147	0.0579	10	10/24/2018 16:11	WG1185319	JC 11/15/18
1,1-Dichloropropene	U		0.000811	0.00290	1	10/22/2018 19:22	WG1184727	
1,3-Dichloropropane	U		0.00203	0.00579	1	10/22/2018 19:22	WG1184727	
cis-1,3-Dichloropropene	U		0.000786	0.00290	1	10/22/2018 19:22	WG1184727	
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	10/22/2018 19:22	WG1184727	
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/22/2018 19:22	WG1184727	
2,2-Dichloropropane	U		0.000919	0.00290	1	10/22/2018 19:22	WG1184727	
Di-isopropyl ether	U		0.000406	0.00116	1	10/22/2018 19:22	WG1184727	
Ethylbenzene	U		0.000614	0.00290	1	10/22/2018 19:22	WG1184727	
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/22/2018 19:22	WG1184727	
2-Hexanone	U		0.0116	0.0290	1	10/22/2018 19:22	WG1184727	
n-Hexane	U		0.0123	0.0579	10	10/24/2018 16:11	WG1185319	
Iodomethane	U		0.00701	0.0145	1	10/22/2018 19:22	WG1184727	
Isopropylbenzene	U		0.00100	0.00290	1	10/22/2018 19:22	WG1184727	
p-Isopropyltoluene	U		0.00270	0.00579	1	10/22/2018 19:22	WG1184727	
2-Butanone (MEK)	U		0.145	0.290	10	10/24/2018 16:11	WG1185319	
Methylene Chloride	U		0.00769	0.0290	1	10/22/2018 19:22	WG1184727	
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/22/2018 19:22	WG1184727	

B-265-5
Collected date/time: 10/18/18 10:40

SAMPLE RESULTS - 14

L1036473

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	10/22/2018 19:22	WG1184727
Naphthalene	U		0.00362	0.0145	1	10/22/2018 19:22	WG1184727
n-Propylbenzene	U		0.00137	0.00579	1	10/22/2018 19:22	WG1184727
Styrene	U		0.00316	0.0145	1	10/22/2018 19:22	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	10/22/2018 19:22	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	10/22/2018 19:22	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	10/22/2018 19:22	WG1184727
Tetrachloroethene	1.57 UJ	J0	0.00811	0.0290	10	10/24/2018 16:11	WG1185319
Toluene	U		0.00145	0.00579	1	10/22/2018 19:22	WG1184727
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	10/22/2018 19:22	WG1184727
1,2,4-Trichlorobenzene	U		0.00559	0.0145	1	10/22/2018 19:22	WG1184727
1,1,1-Trichloroethane	U		0.000319	0.00290	1	10/22/2018 19:22	WG1184727
1,1,2-Trichloroethane	U		0.0102	0.0290	10	10/24/2018 16:11	WG1185319
Trichloroethene	0.00413		0.000464	0.00116	1	10/22/2018 19:22	WG1184727
Trichlorofluoromethane	U		0.000579	0.00290	1	10/22/2018 19:22	WG1184727
1,2,3-Trichloropropane	U		0.00591	0.0145	1	10/22/2018 19:22	WG1184727
1,2,4-Trimethylbenzene	U		0.00134	0.00579	1	10/22/2018 19:22	WG1184727
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	10/22/2018 19:22	WG1184727
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	10/22/2018 19:22	WG1184727
Vinyl acetate	U		0.00408	0.0145	1	10/22/2018 19:22	WG1184727
Vinyl chloride	U		0.000791	0.00290	1	10/22/2018 19:22	WG1184727
Xylenes, Total	U		0.00554	0.00753	1	10/22/2018 19:22	WG1184727
(S) Toluene-d8	*126*			*75.0-131*		*10/22/2018 19:22*	WG1184727
(S) Toluene-d8	*99.0*			*75.0-131*		*10/24/2018 16:11*	WG1185319
(S) Dibromofluoromethane	*89.1*			*65.0-129*		*10/22/2018 19:22*	WG1184727
(S) Dibromofluoromethane	*120*			*65.0-129*		*10/24/2018 16:11*	WG1185319
(S) 4-Bromofluorobenzene	*85.8*			*67.0-138*		*10/22/2018 19:22*	WG1184727
(S) 4-Bromofluorobenzene	*130*			*67.0-138*		*10/24/2018 16:11*	WG1185319

JC 11/15/18

Sample Narrative:

L1036473-14 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-14 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.6		1	10/24/2018 13:36	WG1185670

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.153	0.279	10	10/24/2018 16:32	WG1185319
Acrylonitrile	U		0.00212	0.0140	1	10/22/2018 19:43	WG1184727
Benzene	U		0.000447	0.00112	1	10/22/2018 19:43	WG1184727
Bromobenzene	U		0.00117	0.0140	1	10/22/2018 19:43	WG1184727
Bromodichloromethane	U		0.000880	0.00279	1	10/22/2018 19:43	WG1184727
Bromochloromethane	U		0.00126	0.00558	1	10/22/2018 19:43	WG1184727
Bromoform	U		0.00668	0.0279	1	10/22/2018 19:43	WG1184727
Bromomethane	U		0.00413	0.0140	1	10/22/2018 19:43	WG1184727
n-Butylbenzene	U		0.00429	0.0140	1	10/22/2018 19:43	WG1184727
sec-Butylbenzene	U		0.00282	0.0140	1	10/22/2018 19:43	WG1184727
tert-Butylbenzene	U		0.00173	0.00558	1	10/22/2018 19:43	WG1184727
Carbon disulfide	U		0.00453	0.0140	1	10/22/2018 19:43	WG1184727
Carbon tetrachloride	U		0.00121	0.00558	1	10/22/2018 19:43	WG1184727
Chlorobenzene	U		0.000640	0.00279	1	10/22/2018 19:43	WG1184727
Chlorodibromomethane	U		0.000502	0.00279	1	10/22/2018 19:43	WG1184727
Chloroethane	U		0.00121	0.00558	1	10/22/2018 19:43	WG1184727
Chloroform	0.00104 U	B J	0.000463	0.00279	1	10/22/2018 19:43	WG1184727
Chloromethane	U		0.00155	0.0140	1	10/22/2018 19:43	WG1184727
2-Chlorotoluene	U		0.00103	0.00279	1	10/22/2018 19:43	WG1184727
4-Chlorotoluene	U		0.00126	0.00558	1	10/22/2018 19:43	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00569	0.0279	1	10/22/2018 19:43	WG1184727
1,2-Dibromoethane	U		0.000586	0.00279	1	10/22/2018 19:43	WG1184727
Dibromomethane	U		0.00112	0.00558	1	10/22/2018 19:43	WG1184727
1,2-Dichlorobenzene	U		0.00162	0.00558	1	10/22/2018 19:43	WG1184727
1,3-Dichlorobenzene	U		0.00190	0.00558	1	10/22/2018 19:43	WG1184727
1,4-Dichlorobenzene	U		0.00220	0.00558	1	10/22/2018 19:43	WG1184727
Dichlorodifluoromethane	U		0.000913	0.00279	1	10/22/2018 19:43	WG1184727
1,1-Dichloroethane	U		0.000642	0.00279	1	10/22/2018 19:43	WG1184727
1,2-Dichloroethane	U		0.000530	0.00279	1	10/22/2018 19:43	WG1184727
1,1-Dichloroethene	U		0.000558	0.00279	1	10/22/2018 19:43	WG1184727
cis-1,2-Dichloroethene	0.00354		0.000770	0.00279	1	10/22/2018 19:43	WG1184727
trans-1,2-Dichloroethene	U		0.00160	0.00558	1	10/22/2018 19:43	WG1184727
1,2-Dichloropropane	U		0.0142	0.0558	10	10/24/2018 16:32	WG1185319
1,1-Dichloropropene	U		0.000781	0.00279	1	10/22/2018 19:43	WG1184727
1,3-Dichloropropane	U		0.00195	0.00558	1	10/22/2018 19:43	WG1184727
cis-1,3-Dichloropropene	U		0.000757	0.00279	1	10/22/2018 19:43	WG1184727
trans-1,3-Dichloropropene	U		0.00171	0.00558	1	10/22/2018 19:43	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00156	0.00558	1	10/22/2018 19:43	WG1184727
2,2-Dichloropropane	U		0.000885	0.00279	1	10/22/2018 19:43	WG1184727
Di-isopropyl ether	U		0.000391	0.00112	1	10/22/2018 19:43	WG1184727
Ethylbenzene	U		0.000592	0.00279	1	10/22/2018 19:43	WG1184727
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/22/2018 19:43	WG1184727
2-Hexanone	U		0.0112	0.0279	1	10/22/2018 19:43	WG1184727
n-Hexane	U		0.0118	0.0558	10	10/24/2018 16:32	WG1185319
Iodomethane	U		0.00675	0.0140	1	10/22/2018 19:43	WG1184727
Isopropylbenzene	U		0.000963	0.00279	1	10/22/2018 19:43	WG1184727
p-Isopropyltoluene	U		0.00260	0.00558	1	10/22/2018 19:43	WG1184727
2-Butanone (MEK)	U		0.140	0.279	10	10/24/2018 16:32	WG1185319
Methylene Chloride	U		0.00741	0.0279	1	10/22/2018 19:43	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	10/22/2018 19:43	WG1184727

JC 11/15/18

B-265-8

Collected date/time: 10/18/18 10:47

SAMPLE RESULTS - 15

L1036473

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00112	1	10/22/2018 19:43	WG1184727
Naphthalene	U		0.00348	0.0140	1	10/22/2018 19:43	WG1184727
n-Propylbenzene	U		0.00132	0.00558	1	10/22/2018 19:43	WG1184727
Styrene	U		0.00305	0.0140	1	10/22/2018 19:43	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000558	0.00279	1	10/22/2018 19:43	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	10/22/2018 19:43	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00279	1	10/22/2018 19:43	WG1184727
Tetrachloroethene	2.37 J	J0	0.00781	0.0279	10	10/24/2018 16:32	WG1185319
Toluene	U		0.00140	0.00558	1	10/22/2018 19:43	WG1184727
1,2,3-Trichlorobenzene	U		0.000698	0.00279	1	10/22/2018 19:43	WG1184727
1,2,4-Trichlorobenzene	U		0.00538	0.0140	1	10/22/2018 19:43	WG1184727
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/22/2018 19:43	WG1184727
1,1,2-Trichloroethane	U		0.00986	0.0279	10	10/24/2018 16:32	WG1185319
Trichloroethene	0.00473		0.000447	0.00112	1	10/22/2018 19:43	WG1184727
Trichlorofluoromethane	U		0.000558	0.00279	1	10/22/2018 19:43	WG1184727
1,2,3-Trichloropropane	U		0.00569	0.0140	1	10/22/2018 19:43	WG1184727
1,2,4-Trimethylbenzene	U		0.00129	0.00558	1	10/22/2018 19:43	WG1184727
1,2,3-Trimethylbenzene	U		0.00128	0.00558	1	10/22/2018 19:43	WG1184727
1,3,5-Trimethylbenzene	U		0.00121	0.00558	1	10/22/2018 19:43	WG1184727
Vinyl acetate	U		0.00393	0.0140	1	10/22/2018 19:43	WG1184727
Vinyl chloride	U		0.000762	0.00279	1	10/22/2018 19:43	WG1184727
Xylenes, Total	U		0.00534	0.00726	1	10/22/2018 19:43	WG1184727
(S) Toluene-d8	*129*			*75.0-131*		*10/22/2018 19:43*	WG1184727
(S) Toluene-d8	*98.0*			*75.0-131*		*10/24/2018 16:32*	WG1185319
(S) Dibromofluoromethane	*85.3*			*65.0-129*		*10/22/2018 19:43*	WG1184727
(S) Dibromofluoromethane	*117*			*65.0-129*		*10/24/2018 16:32*	WG1185319
(S) 4-Bromofluorobenzene	*84.0*			*67.0-138*		*10/22/2018 19:43*	WG1184727
(S) 4-Bromofluorobenzene	*127*			*67.0-138*		*10/24/2018 16:32*	WG1185319

Sample Narrative:

L1036473-15 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-15 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.0		1	10/24/2018 13:36	WG1185670

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.121	0.220	8	10/24/2018 16:52	WG1185319
Acrylonitrile	U		0.00209	0.0137	1	10/22/2018 20:03	WG1184727
Benzene	U		0.000440	0.00110	1	10/22/2018 20:03	WG1184727
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 20:03	WG1184727
Bromodichloromethane	U		0.000866	0.00275	1	10/22/2018 20:03	WG1184727
Bromochloromethane	U		0.00124	0.00550	1	10/22/2018 20:03	WG1184727
Bromoform	U		0.00657	0.0275	1	10/22/2018 20:03	WG1184727
Bromomethane	U		0.00407	0.0137	1	10/22/2018 20:03	WG1184727
n-Butylbenzene	U		0.00422	0.0137	1	10/22/2018 20:03	WG1184727
sec-Butylbenzene	U		0.00278	0.0137	1	10/22/2018 20:03	WG1184727
tert-Butylbenzene	U		0.00170	0.00550	1	10/22/2018 20:03	WG1184727
Carbon disulfide	U		0.00446	0.0137	1	10/22/2018 20:03	WG1184727
Carbon tetrachloride	U		0.00119	0.00550	1	10/22/2018 20:03	WG1184727
Chlorobenzene	U		0.000630	0.00275	1	10/22/2018 20:03	WG1184727
Chlorodibromomethane	U		0.000495	0.00275	1	10/22/2018 20:03	WG1184727
Chloroethane	U		0.00119	0.00550	1	10/22/2018 20:03	WG1184727
Chloroform	0.00127 U	B J	0.000456	0.00275	1	10/22/2018 20:03	WG1184727
Chloromethane	U		0.00153	0.0137	1	10/22/2018 20:03	WG1184727
2-Chlorotoluene	U		0.00101	0.00275	1	10/22/2018 20:03	WG1184727
4-Chlorotoluene	U		0.00124	0.00550	1	10/22/2018 20:03	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00561	0.0275	1	10/22/2018 20:03	WG1184727
1,2-Dibromoethane	U		0.000577	0.00275	1	10/22/2018 20:03	WG1184727
Dibromomethane	U		0.00110	0.00550	1	10/22/2018 20:03	WG1184727
1,2-Dichlorobenzene	U		0.00159	0.00550	1	10/22/2018 20:03	WG1184727
1,3-Dichlorobenzene	U		0.00187	0.00550	1	10/22/2018 20:03	WG1184727
1,4-Dichlorobenzene	U		0.00217	0.00550	1	10/22/2018 20:03	WG1184727
Dichlorodifluoromethane	U		0.000899	0.00275	1	10/22/2018 20:03	WG1184727
1,1-Dichloroethane	U		0.000632	0.00275	1	10/22/2018 20:03	WG1184727
1,2-Dichloroethane	U		0.000522	0.00275	1	10/22/2018 20:03	WG1184727
1,1-Dichloroethene	U		0.000550	0.00275	1	10/22/2018 20:03	WG1184727
cis-1,2-Dichloroethene	0.00135 J	J	0.000759	0.00275	1	10/22/2018 20:03	WG1184727
trans-1,2-Dichloroethene	U		0.00157	0.00550	1	10/22/2018 20:03	WG1184727
1,2-Dichloropropane	U		0.0112	0.0440	8	10/24/2018 16:52	WG1185319
1,1-Dichloropropene	U		0.000770	0.00275	1	10/22/2018 20:03	WG1184727
1,3-Dichloropropane	U		0.00192	0.00550	1	10/22/2018 20:03	WG1184727
cis-1,3-Dichloropropene	U		0.000745	0.00275	1	10/22/2018 20:03	WG1184727
trans-1,3-Dichloropropene	U		0.00168	0.00550	1	10/22/2018 20:03	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00154	0.00550	1	10/22/2018 20:03	WG1184727
2,2-Dichloropropane	U		0.000872	0.00275	1	10/22/2018 20:03	WG1184727
Di-isopropyl ether	U		0.000385	0.00110	1	10/22/2018 20:03	WG1184727
Ethylbenzene	U		0.000583	0.00275	1	10/22/2018 20:03	WG1184727
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	10/22/2018 20:03	WG1184727
2-Hexanone	U		0.0110	0.0275	1	10/22/2018 20:03	WG1184727
n-Hexane	U		0.00932	0.0440	8	10/24/2018 16:52	WG1185319
Iodomethane	U		0.00665	0.0137	1	10/22/2018 20:03	WG1184727
Isopropylbenzene	U		0.000949	0.00275	1	10/22/2018 20:03	WG1184727
p-Isopropyltoluene	U		0.00256	0.00550	1	10/22/2018 20:03	WG1184727
2-Butanone (MEK)	U		0.110	0.220	8	10/24/2018 16:52	WG1185319
Methylene Chloride	U		0.00730	0.0275	1	10/22/2018 20:03	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/22/2018 20:03	WG1184727

JC 11/15/18

B-265-10

Collected date/time: 10/18/18 10:50

SAMPLE RESULTS - 16

L1036473

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000324	0.00110	1	10/22/2018 20:03	WG1184727
Naphthalene	U		0.00343	0.0137	1	10/22/2018 20:03	WG1184727
n-Propylbenzene	U		0.00130	0.00550	1	10/22/2018 20:03	WG1184727
Styrene	U		0.00300	0.0137	1	10/22/2018 20:03	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000550	0.00275	1	10/22/2018 20:03	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	10/22/2018 20:03	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000742	0.00275	1	10/22/2018 20:03	WG1184727
Tetrachloroethene	1.15 J	J0	0.00616	0.0220	8	10/24/2018 16:52	WG1185319
Toluene	U		0.00137	0.00550	1	10/22/2018 20:03	WG1184727
1,2,3-Trichlorobenzene	U		0.000687	0.00275	1	10/22/2018 20:03	WG1184727
1,2,4-Trichlorobenzene	U		0.00530	0.0137	1	10/22/2018 20:03	WG1184727
1,1,1-Trichloroethane	U		0.000302	0.00275	1	10/22/2018 20:03	WG1184727
1,1,2-Trichloroethane	U		0.00776	0.0220	8	10/24/2018 16:52	WG1185319
Trichloroethene	0.00325		0.000440	0.00110	1	10/22/2018 20:03	WG1184727
Trichlorofluoromethane	U		0.000550	0.00275	1	10/22/2018 20:03	WG1184727
1,2,3-Trichloropropane	U		0.00561	0.0137	1	10/22/2018 20:03	WG1184727
1,2,4-Trimethylbenzene	U		0.00128	0.00550	1	10/22/2018 20:03	WG1184727
1,2,3-Trimethylbenzene	U		0.00126	0.00550	1	10/22/2018 20:03	WG1184727
1,3,5-Trimethylbenzene	U		0.00119	0.00550	1	10/22/2018 20:03	WG1184727
Vinyl acetate	U		0.00387	0.0137	1	10/22/2018 20:03	WG1184727
Vinyl chloride	U		0.000751	0.00275	1	10/22/2018 20:03	WG1184727
Xylenes, Total	U		0.00526	0.00715	1	10/22/2018 20:03	WG1184727
(S) Toluene-d8	*126*			*75.0-131*		*10/22/2018 20:03*	WG1184727
(S) Toluene-d8	*96.1*			*75.0-131*		*10/24/2018 16:52*	WG1185319
(S) Dibromofluoromethane	*92.1*			*65.0-129*		*10/22/2018 20:03*	WG1184727
(S) Dibromofluoromethane	*120*			*65.0-129*		*10/24/2018 16:52*	WG1185319
(S) 4-Bromofluorobenzene	*88.0*			*67.0-138*		*10/22/2018 20:03*	WG1184727
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*10/24/2018 16:52*	WG1185319

Sample Narrative:

L1036473-16 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-16 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.4		1	10/24/2018 13:36	WG1185670

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0152	0.0277	1	10/24/2018 13:51	WG1185319
Acrylonitrile	U		0.00210	0.0138	1	10/22/2018 20:24	WG1184727
Benzene	U		0.000443	0.00111	1	10/22/2018 20:24	WG1184727
Bromobenzene	U		0.00116	0.0138	1	10/22/2018 20:24	WG1184727
Bromodichloromethane	U		0.000872	0.00277	1	10/22/2018 20:24	WG1184727
Bromochloromethane	U		0.00125	0.00553	1	10/22/2018 20:24	WG1184727
Bromoform	U		0.00662	0.0277	1	10/22/2018 20:24	WG1184727
Bromomethane	U		0.00409	0.0138	1	10/22/2018 20:24	WG1184727
n-Butylbenzene	U		0.00425	0.0138	1	10/22/2018 20:24	WG1184727
sec-Butylbenzene	U		0.00280	0.0138	1	10/22/2018 20:24	WG1184727
tert-Butylbenzene	U		0.00171	0.00553	1	10/22/2018 20:24	WG1184727
Carbon disulfide	U		0.00449	0.0138	1	10/22/2018 20:24	WG1184727
Carbon tetrachloride	U		0.00119	0.00553	1	10/22/2018 20:24	WG1184727
Chlorobenzene	U		0.000634	0.00277	1	10/22/2018 20:24	WG1184727
Chlorodibromomethane	U		0.000498	0.00277	1	10/22/2018 20:24	WG1184727
Chloroethane	U		0.00119	0.00553	1	10/22/2018 20:24	WG1184727
Chloroform	0.000779 U	B J	0.000459	0.00277	1	10/22/2018 20:24	WG1184727
Chloromethane	U		0.00154	0.0138	1	10/22/2018 20:24	WG1184727
2-Chlorotoluene	U		0.00102	0.00277	1	10/22/2018 20:24	WG1184727
4-Chlorotoluene	U		0.00125	0.00553	1	10/22/2018 20:24	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00564	0.0277	1	10/22/2018 20:24	WG1184727
1,2-Dibromoethane	U		0.000581	0.00277	1	10/22/2018 20:24	WG1184727
Dibromomethane	U		0.00111	0.00553	1	10/22/2018 20:24	WG1184727
1,2-Dichlorobenzene	U		0.00160	0.00553	1	10/22/2018 20:24	WG1184727
1,3-Dichlorobenzene	U		0.00188	0.00553	1	10/22/2018 20:24	WG1184727
1,4-Dichlorobenzene	U		0.00218	0.00553	1	10/22/2018 20:24	WG1184727
Dichlorodifluoromethane	U		0.000905	0.00277	1	10/22/2018 20:24	WG1184727
1,1-Dichloroethane	U		0.000636	0.00277	1	10/22/2018 20:24	WG1184727
1,2-Dichloroethane	U		0.000526	0.00277	1	10/22/2018 20:24	WG1184727
1,1-Dichloroethene	U		0.000553	0.00277	1	10/22/2018 20:24	WG1184727
cis-1,2-Dichloroethene	U		0.000763	0.00277	1	10/22/2018 20:24	WG1184727
trans-1,2-Dichloroethene	U		0.00158	0.00553	1	10/22/2018 20:24	WG1184727
1,2-Dichloropropane	U		0.00141	0.00553	1	10/24/2018 13:51	WG1185319
1,1-Dichloropropene	U		0.000774	0.00277	1	10/22/2018 20:24	WG1184727
1,3-Dichloropropane	U		0.00194	0.00553	1	10/22/2018 20:24	WG1184727
cis-1,3-Dichloropropene	U		0.000750	0.00277	1	10/22/2018 20:24	WG1184727
trans-1,3-Dichloropropene	U		0.00169	0.00553	1	10/22/2018 20:24	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00155	0.00553	1	10/22/2018 20:24	WG1184727
2,2-Dichloropropane	U		0.000877	0.00277	1	10/22/2018 20:24	WG1184727
Di-isopropyl ether	U		0.000387	0.00111	1	10/22/2018 20:24	WG1184727
Ethylbenzene	U		0.000586	0.00277	1	10/22/2018 20:24	WG1184727
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	10/22/2018 20:24	WG1184727
2-Hexanone	U		0.0111	0.0277	1	10/22/2018 20:24	WG1184727
n-Hexane	U		0.00117	0.00553	1	10/24/2018 13:51	WG1185319
Iodomethane	U		0.00669	0.0138	1	10/22/2018 20:24	WG1184727
Isopropylbenzene	U		0.000955	0.00277	1	10/22/2018 20:24	WG1184727
p-Isopropyltoluene	U		0.00258	0.00553	1	10/22/2018 20:24	WG1184727
2-Butanone (MEK)	U		0.0138	0.0277	1	10/24/2018 13:51	WG1185319
Methylene Chloride	U		0.00735	0.0277	1	10/22/2018 20:24	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	10/22/2018 20:24	WG1184727

JC 11/15/18

B-265-17.5

Collected date/time: 10/18/18 11:02

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00111	1	10/22/2018 20:24	WG1184727
Naphthalene	U		0.00345	0.0138	1	10/22/2018 20:24	WG1184727
n-Propylbenzene	U		0.00131	0.00553	1	10/22/2018 20:24	WG1184727
Styrene	U		0.00302	0.0138	1	10/22/2018 20:24	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000553	0.00277	1	10/22/2018 20:24	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000431	0.00277	1	10/22/2018 20:24	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000747	0.00277	1	10/22/2018 20:24	WG1184727
Tetrachloroethene	0.0155 J	J0	0.000774	0.00277	1	10/24/2018 13:51	WG1185319
Toluene	U		0.00138	0.00553	1	10/22/2018 20:24	WG1184727
1,2,3-Trichlorobenzene	U		0.000691	0.00277	1	10/22/2018 20:24	WG1184727
1,2,4-Trichlorobenzene	U		0.00533	0.0138	1	10/22/2018 20:24	WG1184727
1,1,1-Trichloroethane	U		0.000304	0.00277	1	10/22/2018 20:24	WG1184727
1,1,2-Trichloroethane	U		0.000977	0.00277	1	10/24/2018 13:51	WG1185319
Trichloroethene	U		0.000443	0.00111	1	10/22/2018 20:24	WG1184727
Trichlorofluoromethane	U		0.000553	0.00277	1	10/22/2018 20:24	WG1184727
1,2,3-Trichloropropane	U		0.00564	0.0138	1	10/22/2018 20:24	WG1184727
1,2,4-Trimethylbenzene	U		0.00128	0.00553	1	10/22/2018 20:24	WG1184727
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	10/22/2018 20:24	WG1184727
1,3,5-Trimethylbenzene	U		0.00119	0.00553	1	10/22/2018 20:24	WG1184727
Vinyl acetate	U		0.00389	0.0138	1	10/22/2018 20:24	WG1184727
Vinyl chloride	U		0.000756	0.00277	1	10/22/2018 20:24	WG1184727
Xylenes, Total	U		0.00529	0.00719	1	10/22/2018 20:24	WG1184727
(S) Toluene-d8	*125*			*75.0-131*		*10/22/2018 20:24*	WG1184727
(S) Toluene-d8	*98.6*			*75.0-131*		*10/24/2018 13:51*	WG1185319
(S) Dibromofluoromethane	*89.3*			*65.0-129*		*10/22/2018 20:24*	WG1184727
(S) Dibromofluoromethane	*115*			*65.0-129*		*10/24/2018 13:51*	WG1185319
(S) 4-Bromofluorobenzene	*91.0*			*67.0-138*		*10/22/2018 20:24*	WG1184727
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/24/2018 13:51*	WG1185319

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.8		1	10/24/2018 13:36	WG1185670

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0156	0.0285	1	10/24/2018 14:12	WG1185319
Acrylonitrile	U		0.00216	0.0142	1	10/22/2018 20:44	WG1184727
Benzene	U		0.000456	0.00114	1	10/22/2018 20:44	WG1184727
Bromobenzene	U		0.00120	0.0142	1	10/22/2018 20:44	WG1184727
Bromodichloromethane	U		0.000897	0.00285	1	10/22/2018 20:44	WG1184727
Bromochloromethane	U		0.00129	0.00569	1	10/22/2018 20:44	WG1184727
Bromoform	U		0.00681	0.0285	1	10/22/2018 20:44	WG1184727
Bromomethane	U		0.00421	0.0142	1	10/22/2018 20:44	WG1184727
n-Butylbenzene	U		0.00437	0.0142	1	10/22/2018 20:44	WG1184727
sec-Butylbenzene	U		0.00288	0.0142	1	10/22/2018 20:44	WG1184727
tert-Butylbenzene	U		0.00177	0.00569	1	10/22/2018 20:44	WG1184727
Carbon disulfide	U		0.00462	0.0142	1	10/22/2018 20:44	WG1184727
Carbon tetrachloride	U		0.00123	0.00569	1	10/22/2018 20:44	WG1184727
Chlorobenzene	U		0.000653	0.00285	1	10/22/2018 20:44	WG1184727
Chlorodibromomethane	U		0.000512	0.00285	1	10/22/2018 20:44	WG1184727
Chloroethane	U		0.00123	0.00569	1	10/22/2018 20:44	WG1184727
Chloroform	0.00179 U	B J	0.000473	0.00285	1	10/22/2018 20:44	WG1184727
Chloromethane	U		0.00158	0.0142	1	10/22/2018 20:44	WG1184727
2-Chlorotoluene	U		0.00105	0.00285	1	10/22/2018 20:44	WG1184727
4-Chlorotoluene	U		0.00129	0.00569	1	10/22/2018 20:44	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00581	0.0285	1	10/22/2018 20:44	WG1184727
1,2-Dibromoethane	U		0.000598	0.00285	1	10/22/2018 20:44	WG1184727
Dibromomethane	U		0.00114	0.00569	1	10/22/2018 20:44	WG1184727
1,2-Dichlorobenzene	U		0.00165	0.00569	1	10/22/2018 20:44	WG1184727
1,3-Dichlorobenzene	U		0.00194	0.00569	1	10/22/2018 20:44	WG1184727
1,4-Dichlorobenzene	U		0.00224	0.00569	1	10/22/2018 20:44	WG1184727
Dichlorodifluoromethane	U		0.000932	0.00285	1	10/22/2018 20:44	WG1184727
1,1-Dichloroethane	U		0.000655	0.00285	1	10/22/2018 20:44	WG1184727
1,2-Dichloroethane	U		0.000541	0.00285	1	10/22/2018 20:44	WG1184727
1,1-Dichloroethene	U		0.000569	0.00285	1	10/22/2018 20:44	WG1184727
cis-1,2-Dichloroethene	0.0322		0.000786	0.00285	1	10/22/2018 20:44	WG1184727
trans-1,2-Dichloroethene	U		0.00163	0.00569	1	10/22/2018 20:44	WG1184727
1,2-Dichloropropane	U		0.00145	0.00569	1	10/24/2018 14:12	WG1185319
1,1-Dichloropropene	U		0.000797	0.00285	1	10/22/2018 20:44	WG1184727
1,3-Dichloropropane	U		0.00199	0.00569	1	10/22/2018 20:44	WG1184727
cis-1,3-Dichloropropene	U		0.000772	0.00285	1	10/22/2018 20:44	WG1184727
trans-1,3-Dichloropropene	U		0.00174	0.00569	1	10/22/2018 20:44	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00159	0.00569	1	10/22/2018 20:44	WG1184727
2,2-Dichloropropane	U		0.000903	0.00285	1	10/22/2018 20:44	WG1184727
Di-isopropyl ether	U		0.000399	0.00114	1	10/22/2018 20:44	WG1184727
Ethylbenzene	U		0.000604	0.00285	1	10/22/2018 20:44	WG1184727
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	10/22/2018 20:44	WG1184727
2-Hexanone	U		0.0114	0.0285	1	10/22/2018 20:44	WG1184727
n-Hexane	U		0.00121	0.00569	1	10/24/2018 14:12	WG1185319
Iodomethane	U		0.00689	0.0142	1	10/22/2018 20:44	WG1184727
Isopropylbenzene	U		0.000983	0.00285	1	10/22/2018 20:44	WG1184727
p-Isopropyltoluene	U		0.00265	0.00569	1	10/22/2018 20:44	WG1184727
2-Butanone (MEK)	0.0408		0.0142	0.0285	1	10/24/2018 14:12	WG1185319
Methylene Chloride	U		0.00756	0.0285	1	10/22/2018 20:44	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	10/22/2018 20:44	WG1184727

JC 11/15/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000336	0.00114	1	10/22/2018 20:44	WG1184727
Naphthalene	U		0.00355	0.0142	1	10/22/2018 20:44	WG1184727
n-Propylbenzene	U		0.00134	0.00569	1	10/22/2018 20:44	WG1184727
Styrene	U		0.00311	0.0142	1	10/22/2018 20:44	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000569	0.00285	1	10/22/2018 20:44	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000444	0.00285	1	10/22/2018 20:44	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000769	0.00285	1	10/22/2018 20:44	WG1184727
Tetrachloroethene	0.0116 J	J0	0.000797	0.00285	1	10/24/2018 14:12	WG1185319
Toluene	0.00195 J	J	0.00142	0.00569	1	10/22/2018 20:44	WG1184727
1,2,3-Trichlorobenzene	U		0.000712	0.00285	1	10/22/2018 20:44	WG1184727
1,2,4-Trichlorobenzene	U		0.00549	0.0142	1	10/22/2018 20:44	WG1184727
1,1,1-Trichloroethane	U		0.000313	0.00285	1	10/22/2018 20:44	WG1184727
1,1,2-Trichloroethane	U		0.00101	0.00285	1	10/24/2018 14:12	WG1185319
Trichloroethene	0.0285		0.000456	0.00114	1	10/22/2018 20:44	WG1184727
Trichlorofluoromethane	U		0.000569	0.00285	1	10/22/2018 20:44	WG1184727
1,2,3-Trichloropropane	U		0.00581	0.0142	1	10/22/2018 20:44	WG1184727
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	10/22/2018 20:44	WG1184727
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	10/22/2018 20:44	WG1184727
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	10/22/2018 20:44	WG1184727
Vinyl acetate	U		0.00401	0.0142	1	10/22/2018 20:44	WG1184727
Vinyl chloride	U		0.000778	0.00285	1	10/22/2018 20:44	WG1184727
Xylenes, Total	U		0.00544	0.00740	1	10/22/2018 20:44	WG1184727
(S) Toluene-d8	*121*			*75.0-131*		*10/22/2018 20:44*	WG1184727
(S) Toluene-d8	*100*			*75.0-131*		*10/24/2018 14:12*	WG1185319
(S) Dibromofluoromethane	*92.8*			*65.0-129*		*10/22/2018 20:44*	WG1184727
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/24/2018 14:12*	WG1185319
(S) 4-Bromofluorobenzene	*89.8*			*67.0-138*		*10/22/2018 20:44*	WG1184727
(S) 4-Bromofluorobenzene	*118*			*67.0-138*		*10/24/2018 14:12*	WG1185319

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.8		1	10/24/2018 13:36	WG1185670

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0617	0.113	4	10/24/2018 17:12	WG1185319
Acrylonitrile	U		0.00214	0.0141	1	10/22/2018 21:04	WG1184727
Benzene	U		0.000451	0.00113	1	10/22/2018 21:04	WG1184727
Bromobenzene	U		0.00118	0.0141	1	10/22/2018 21:04	WG1184727
Bromodichloromethane	U		0.000887	0.00282	1	10/22/2018 21:04	WG1184727
Bromochloromethane	U		0.00127	0.00563	1	10/22/2018 21:04	WG1184727
Bromoform	U		0.00673	0.0282	1	10/22/2018 21:04	WG1184727
Bromomethane	U		0.00417	0.0141	1	10/22/2018 21:04	WG1184727
n-Butylbenzene	U		0.00432	0.0141	1	10/22/2018 21:04	WG1184727
sec-Butylbenzene	U		0.00285	0.0141	1	10/22/2018 21:04	WG1184727
tert-Butylbenzene	U		0.00175	0.00563	1	10/22/2018 21:04	WG1184727
Carbon disulfide	U		0.00457	0.0141	1	10/22/2018 21:04	WG1184727
Carbon tetrachloride	U		0.00122	0.00563	1	10/22/2018 21:04	WG1184727
Chlorobenzene	U		0.000645	0.00282	1	10/22/2018 21:04	WG1184727
Chlorodibromomethane	U		0.000507	0.00282	1	10/22/2018 21:04	WG1184727
Chloroethane	U		0.00122	0.00563	1	10/22/2018 21:04	WG1184727
Chloroform	0.00162 U	B J	0.000467	0.00282	1	10/22/2018 21:04	WG1184727
Chloromethane	U		0.00157	0.0141	1	10/22/2018 21:04	WG1184727
2-Chlorotoluene	U		0.00104	0.00282	1	10/22/2018 21:04	WG1184727
4-Chlorotoluene	U		0.00127	0.00563	1	10/22/2018 21:04	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00574	0.0282	1	10/22/2018 21:04	WG1184727
1,2-Dibromoethane	U		0.000591	0.00282	1	10/22/2018 21:04	WG1184727
Dibromomethane	U		0.00113	0.00563	1	10/22/2018 21:04	WG1184727
1,2-Dichlorobenzene	U		0.00163	0.00563	1	10/22/2018 21:04	WG1184727
1,3-Dichlorobenzene	U		0.00191	0.00563	1	10/22/2018 21:04	WG1184727
1,4-Dichlorobenzene	U		0.00222	0.00563	1	10/22/2018 21:04	WG1184727
Dichlorodifluoromethane	U		0.000921	0.00282	1	10/22/2018 21:04	WG1184727
1,1-Dichloroethane	U		0.000648	0.00282	1	10/22/2018 21:04	WG1184727
1,2-Dichloroethane	U		0.000535	0.00282	1	10/22/2018 21:04	WG1184727
1,1-Dichloroethene	U		0.000563	0.00282	1	10/22/2018 21:04	WG1184727
cis-1,2-Dichloroethene	0.00584		0.000777	0.00282	1	10/22/2018 21:04	WG1184727
trans-1,2-Dichloroethene	U		0.00161	0.00563	1	10/22/2018 21:04	WG1184727
1,2-Dichloropropane	U		0.00572	0.0225	4	10/24/2018 17:12	WG1185319
1,1-Dichloropropene	U		0.000788	0.00282	1	10/22/2018 21:04	WG1184727
1,3-Dichloropropane	U		0.00197	0.00563	1	10/22/2018 21:04	WG1184727
cis-1,3-Dichloropropene	U		0.000764	0.00282	1	10/22/2018 21:04	WG1184727
trans-1,3-Dichloropropene	U		0.00172	0.00563	1	10/22/2018 21:04	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00158	0.00563	1	10/22/2018 21:04	WG1184727
2,2-Dichloropropane	U		0.000893	0.00282	1	10/22/2018 21:04	WG1184727
Di-isopropyl ether	U		0.000394	0.00113	1	10/22/2018 21:04	WG1184727
Ethylbenzene	U		0.000597	0.00282	1	10/22/2018 21:04	WG1184727
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	10/22/2018 21:04	WG1184727
2-Hexanone	U		0.0113	0.0282	1	10/22/2018 21:04	WG1184727
n-Hexane	U		0.00478	0.0225	4	10/24/2018 17:12	WG1185319
Iodomethane	U		0.00681	0.0141	1	10/22/2018 21:04	WG1184727
Isopropylbenzene	U		0.000972	0.00282	1	10/22/2018 21:04	WG1184727
p-Isopropyltoluene	U		0.00262	0.00563	1	10/22/2018 21:04	WG1184727
2-Butanone (MEK)	U		0.0563	0.113	4	10/24/2018 17:12	WG1185319
Methylene Chloride	U		0.00748	0.0282	1	10/22/2018 21:04	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	10/22/2018 21:04	WG1184727

JC 11/15/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00113	1	10/22/2018 21:04	WG1184727
Naphthalene	U		0.00351	0.0141	1	10/22/2018 21:04	WG1184727
n-Propylbenzene	U		0.00133	0.00563	1	10/22/2018 21:04	WG1184727
Styrene	U		0.00307	0.0141	1	10/22/2018 21:04	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000563	0.00282	1	10/22/2018 21:04	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000439	0.00282	1	10/22/2018 21:04	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000760	0.00282	1	10/22/2018 21:04	WG1184727
Tetrachloroethene	0.917 J	J0	0.00315	0.0113	4	10/24/2018 17:12	WG1185319
Toluene	0.00193 J	J	0.00141	0.00563	1	10/22/2018 21:04	WG1184727
1,2,3-Trichlorobenzene	U		0.000704	0.00282	1	10/22/2018 21:04	WG1184727
1,2,4-Trichlorobenzene	U		0.00543	0.0141	1	10/22/2018 21:04	WG1184727
1,1,1-Trichloroethane	U		0.000310	0.00282	1	10/22/2018 21:04	WG1184727
1,1,2-Trichloroethane	U		0.00398	0.0113	4	10/24/2018 17:12	WG1185319
Trichloroethene	0.00621		0.000451	0.00113	1	10/22/2018 21:04	WG1184727
Trichlorofluoromethane	U		0.000563	0.00282	1	10/22/2018 21:04	WG1184727
1,2,3-Trichloropropane	U		0.00574	0.0141	1	10/22/2018 21:04	WG1184727
1,2,4-Trimethylbenzene	U		0.00131	0.00563	1	10/22/2018 21:04	WG1184727
1,2,3-Trimethylbenzene	U		0.00130	0.00563	1	10/22/2018 21:04	WG1184727
1,3,5-Trimethylbenzene	U		0.00122	0.00563	1	10/22/2018 21:04	WG1184727
Vinyl acetate	U		0.00396	0.0141	1	10/22/2018 21:04	WG1184727
Vinyl chloride	U		0.000769	0.00282	1	10/22/2018 21:04	WG1184727
Xylenes, Total	U		0.00538	0.00732	1	10/22/2018 21:04	WG1184727
(S) Toluene-d8	*128*			*75.0-131*		*10/22/2018 21:04*	WG1184727
(S) Toluene-d8	*98.3*			*75.0-131*		*10/24/2018 17:12*	WG1185319
(S) Dibromofluoromethane	*84.8*			*65.0-129*		*10/22/2018 21:04*	WG1184727
(S) Dibromofluoromethane	*118*			*65.0-129*		*10/24/2018 17:12*	WG1185319
(S) 4-Bromofluorobenzene	*77.3*			*67.0-138*		*10/22/2018 21:04*	WG1184727
(S) 4-Bromofluorobenzene	*124*			*67.0-138*		*10/24/2018 17:12*	WG1185319

Sample Narrative:

L1036473-19 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-19 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

JC 11/15/18

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.3		1	10/24/2018 13:36	WG1185670

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.150	0.274	10	10/24/2018 17:32	WG1185319
Acrylonitrile	U		0.00208	0.0137	1	10/22/2018 21:25	WG1184727
Benzene	U		0.000438	0.00110	1	10/22/2018 21:25	WG1184727
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 21:25	WG1184727
Bromodichloromethane	U		0.000863	0.00274	1	10/22/2018 21:25	WG1184727
Bromochloromethane	U		0.00124	0.00548	1	10/22/2018 21:25	WG1184727
Bromoform	U		0.00655	0.0274	1	10/22/2018 21:25	WG1184727
Bromomethane	U		0.00405	0.0137	1	10/22/2018 21:25	WG1184727
n-Butylbenzene	U		0.00421	0.0137	1	10/22/2018 21:25	WG1184727
sec-Butylbenzene	U		0.00277	0.0137	1	10/22/2018 21:25	WG1184727
tert-Butylbenzene	U		0.00170	0.00548	1	10/22/2018 21:25	WG1184727
Carbon disulfide	U		0.00445	0.0137	1	10/22/2018 21:25	WG1184727
Carbon tetrachloride	U		0.00118	0.00548	1	10/22/2018 21:25	WG1184727
Chlorobenzene	U		0.000628	0.00274	1	10/22/2018 21:25	WG1184727
Chlorodibromomethane	U		0.000493	0.00274	1	10/22/2018 21:25	WG1184727
Chloroethane	U		0.00118	0.00548	1	10/22/2018 21:25	WG1184727
Chloroform	0.00127 U	B J	0.000455	0.00274	1	10/22/2018 21:25	WG1184727
Chloromethane	U		0.00152	0.0137	1	10/22/2018 21:25	WG1184727
2-Chlorotoluene	U		0.00101	0.00274	1	10/22/2018 21:25	WG1184727
4-Chlorotoluene	U		0.00124	0.00548	1	10/22/2018 21:25	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00559	0.0274	1	10/22/2018 21:25	WG1184727
1,2-Dibromoethane	U		0.000575	0.00274	1	10/22/2018 21:25	WG1184727
Dibromomethane	U		0.00110	0.00548	1	10/22/2018 21:25	WG1184727
1,2-Dichlorobenzene	U		0.00159	0.00548	1	10/22/2018 21:25	WG1184727
1,3-Dichlorobenzene	U		0.00186	0.00548	1	10/22/2018 21:25	WG1184727
1,4-Dichlorobenzene	U		0.00216	0.00548	1	10/22/2018 21:25	WG1184727
Dichlorodifluoromethane	U		0.000896	0.00274	1	10/22/2018 21:25	WG1184727
1,1-Dichloroethane	U		0.000630	0.00274	1	10/22/2018 21:25	WG1184727
1,2-Dichloroethane	U		0.000520	0.00274	1	10/22/2018 21:25	WG1184727
1,1-Dichloroethene	U		0.000548	0.00274	1	10/22/2018 21:25	WG1184727
cis-1,2-Dichloroethene	0.00458		0.000756	0.00274	1	10/22/2018 21:25	WG1184727
trans-1,2-Dichloroethene	U		0.00157	0.00548	1	10/22/2018 21:25	WG1184727
1,2-Dichloropropane	U		0.0139	0.0548	10	10/24/2018 17:32	WG1185319
1,1-Dichloropropene	U		0.000767	0.00274	1	10/22/2018 21:25	WG1184727
1,3-Dichloropropane	U		0.00192	0.00548	1	10/22/2018 21:25	WG1184727
cis-1,3-Dichloropropene	U		0.000743	0.00274	1	10/22/2018 21:25	WG1184727
trans-1,3-Dichloropropene	U		0.00168	0.00548	1	10/22/2018 21:25	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00153	0.00548	1	10/22/2018 21:25	WG1184727
2,2-Dichloropropane	U		0.000869	0.00274	1	10/22/2018 21:25	WG1184727
Di-isopropyl ether	U		0.000383	0.00110	1	10/22/2018 21:25	WG1184727
Ethylbenzene	U		0.000581	0.00274	1	10/22/2018 21:25	WG1184727
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	10/22/2018 21:25	WG1184727
2-Hexanone	U		0.0110	0.0274	1	10/22/2018 21:25	WG1184727
n-Hexane	U		0.0116	0.0548	10	10/24/2018 17:32	WG1185319
Iodomethane	U		0.00663	0.0137	1	10/22/2018 21:25	WG1184727
Isopropylbenzene	U		0.000945	0.00274	1	10/22/2018 21:25	WG1184727
p-Isopropyltoluene	U		0.00255	0.00548	1	10/22/2018 21:25	WG1184727
2-Butanone (MEK)	U		0.137	0.274	10	10/24/2018 17:32	WG1185319
Methylene Chloride	U		0.00727	0.0274	1	10/22/2018 21:25	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	10/22/2018 21:25	WG1184727

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00110	1	10/22/2018 21:25	WG1184727
Naphthalene	U		0.00342	0.0137	1	10/22/2018 21:25	WG1184727
n-Propylbenzene	U		0.00129	0.00548	1	10/22/2018 21:25	WG1184727
Styrene	U		0.00299	0.0137	1	10/22/2018 21:25	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000548	0.00274	1	10/22/2018 21:25	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000427	0.00274	1	10/22/2018 21:25	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000739	0.00274	1	10/22/2018 21:25	WG1184727
Tetrachloroethene	2.29 J	J0	0.00767	0.0274	10	10/24/2018 17:32	WG1185319
Toluene	U		0.00137	0.00548	1	10/22/2018 21:25	WG1184727
1,2,3-Trichlorobenzene	U		0.000685	0.00274	1	10/22/2018 21:25	WG1184727
1,2,4-Trichlorobenzene	U		0.00528	0.0137	1	10/22/2018 21:25	WG1184727
1,1,1-Trichloroethane	U		0.000301	0.00274	1	10/22/2018 21:25	WG1184727
1,1,2-Trichloroethane	U		0.00967	0.0274	10	10/24/2018 17:32	WG1185319
Trichloroethene	0.00740		0.000438	0.00110	1	10/22/2018 21:25	WG1184727
Trichlorofluoromethane	U		0.000548	0.00274	1	10/22/2018 21:25	WG1184727
1,2,3-Trichloropropane	U		0.00559	0.0137	1	10/22/2018 21:25	WG1184727
1,2,4-Trimethylbenzene	U		0.00127	0.00548	1	10/22/2018 21:25	WG1184727
1,2,3-Trimethylbenzene	U		0.00126	0.00548	1	10/22/2018 21:25	WG1184727
1,3,5-Trimethylbenzene	U		0.00118	0.00548	1	10/22/2018 21:25	WG1184727
Vinyl acetate	U		0.00386	0.0137	1	10/22/2018 21:25	WG1184727
Vinyl chloride	U		0.000748	0.00274	1	10/22/2018 21:25	WG1184727
Xylenes, Total	U		0.00524	0.00712	1	10/22/2018 21:25	WG1184727
(S) Toluene-d8	*129*			*75.0-131*		*10/22/2018 21:25*	WG1184727
(S) Toluene-d8	*96.5*			*75.0-131*		*10/24/2018 17:32*	WG1185319
(S) Dibromofluoromethane	*84.8*			*65.0-129*		*10/22/2018 21:25*	WG1184727
(S) Dibromofluoromethane	*117*			*65.0-129*		*10/24/2018 17:32*	WG1185319
(S) 4-Bromofluorobenzene	*81.5*			*67.0-138*		*10/22/2018 21:25*	WG1184727
(S) 4-Bromofluorobenzene	*128*			*67.0-138*		*10/24/2018 17:32*	WG1185319

Sample Narrative:

L1036473-20 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-20 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.1		1	10/24/2018 13:36	WG1185670

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		1.24	2.25	80	10/24/2018 19:32	WG1185319
Acrylonitrile	U		0.00213	0.0140	1	10/22/2018 21:45	WG1184727
Benzene	U		0.000449	0.00112	1	10/22/2018 21:45	WG1184727
Bromobenzene	U		0.00118	0.0140	1	10/22/2018 21:45	WG1184727
Bromodichloromethane	U		0.0707	0.225	80	10/24/2018 19:32	WG1185319
Bromochloromethane	U		0.00127	0.00561	1	10/22/2018 21:45	WG1184727
Bromoform	U		0.00671	0.0281	1	10/22/2018 21:45	WG1184727
Bromomethane	U		0.00415	0.0140	1	10/22/2018 21:45	WG1184727
n-Butylbenzene	U		0.00431	0.0140	1	10/22/2018 21:45	WG1184727
sec-Butylbenzene	U		0.00284	0.0140	1	10/22/2018 21:45	WG1184727
tert-Butylbenzene	U		0.00174	0.00561	1	10/22/2018 21:45	WG1184727
Carbon disulfide	U		0.00456	0.0140	1	10/22/2018 21:45	WG1184727
Carbon tetrachloride	U		0.00121	0.00561	1	10/22/2018 21:45	WG1184727
Chlorobenzene	U		0.000643	0.00281	1	10/22/2018 21:45	WG1184727
Chlorodibromomethane	U		0.000505	0.00281	1	10/22/2018 21:45	WG1184727
Chloroethane	U		0.00121	0.00561	1	10/22/2018 21:45	WG1184727
Chloroform	0.00111 U	B J	0.000466	0.00281	1	10/22/2018 21:45	WG1184727
Chloromethane	U		0.00156	0.0140	1	10/22/2018 21:45	WG1184727
2-Chlorotoluene	U		0.00103	0.00281	1	10/22/2018 21:45	WG1184727
4-Chlorotoluene	U		0.00127	0.00561	1	10/22/2018 21:45	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	10/22/2018 21:45	WG1184727
1,2-Dibromoethane	U		0.000590	0.00281	1	10/22/2018 21:45	WG1184727
Dibromomethane	U		0.00112	0.00561	1	10/22/2018 21:45	WG1184727
1,2-Dichlorobenzene	U		0.00163	0.00561	1	10/22/2018 21:45	WG1184727
1,3-Dichlorobenzene	U		0.00191	0.00561	1	10/22/2018 21:45	WG1184727
1,4-Dichlorobenzene	U		0.00221	0.00561	1	10/22/2018 21:45	WG1184727
Dichlorodifluoromethane	U		0.000919	0.00281	1	10/22/2018 21:45	WG1184727
1,1-Dichloroethane	U		0.000646	0.00281	1	10/22/2018 21:45	WG1184727
1,2-Dichloroethane	U		0.000533	0.00281	1	10/22/2018 21:45	WG1184727
1,1-Dichloroethene	U		0.000561	0.00281	1	10/22/2018 21:45	WG1184727
cis-1,2-Dichloroethene	0.00229 J	J	0.000775	0.00281	1	10/22/2018 21:45	WG1184727
trans-1,2-Dichloroethene	U		0.00161	0.00561	1	10/22/2018 21:45	WG1184727
1,2-Dichloropropane	U		0.00143	0.00561	1	10/22/2018 21:45	WG1184727
1,1-Dichloropropene	U		0.000786	0.00281	1	10/22/2018 21:45	WG1184727
1,3-Dichloropropane	U		0.00197	0.00561	1	10/22/2018 21:45	WG1184727
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	10/22/2018 21:45	WG1184727
trans-1,3-Dichloropropene	U		0.00172	0.00561	1	10/22/2018 21:45	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00157	0.00561	1	10/22/2018 21:45	WG1184727
2,2-Dichloropropane	U		0.000890	0.00281	1	10/22/2018 21:45	WG1184727
Di-isopropyl ether	U		0.000393	0.00112	1	10/22/2018 21:45	WG1184727
Ethylbenzene	U		0.000595	0.00281	1	10/22/2018 21:45	WG1184727
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 21:45	WG1184727
2-Hexanone	U		0.0112	0.0281	1	10/22/2018 21:45	WG1184727
n-Hexane	U		0.0952	0.449	80	10/24/2018 19:32	WG1185319
Iodomethane	U		0.00679	0.0140	1	10/22/2018 21:45	WG1184727
Isopropylbenzene	U		0.000969	0.00281	1	10/22/2018 21:45	WG1184727
p-Isopropyltoluene	U		0.00262	0.00561	1	10/22/2018 21:45	WG1184727
2-Butanone (MEK)	U		1.12	2.25	80	10/24/2018 19:32	WG1185319
Methylene Chloride	U		0.00746	0.0281	1	10/22/2018 21:45	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	10/22/2018 21:45	WG1184727

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	10/22/2018 21:45	WG1184727
Naphthalene	U		0.00350	0.0140	1	10/22/2018 21:45	WG1184727
n-Propylbenzene	U		0.00132	0.00561	1	10/22/2018 21:45	WG1184727
Styrene	U		0.00307	0.0140	1	10/22/2018 21:45	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000561	0.00281	1	10/22/2018 21:45	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	10/22/2018 21:45	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	10/22/2018 21:45	WG1184727
Tetrachloroethene	15.7 J	J0	0.0629	0.225	80	10/24/2018 19:32	WG1185319
Toluene	0.00193 J	J	0.00140	0.00561	1	10/22/2018 21:45	WG1184727
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	10/22/2018 21:45	WG1184727
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	10/22/2018 21:45	WG1184727
1,1,1-Trichloroethane	U		0.000309	0.00281	1	10/22/2018 21:45	WG1184727
1,1,2-Trichloroethane	U		0.0793	0.225	80	10/24/2018 19:32	WG1185319
Trichloroethene	0.0186 J		0.000449	0.00112	1	10/22/2018 21:45	WG1184727
Trichlorofluoromethane	U		0.000561	0.00281	1	10/22/2018 21:45	WG1184727
1,2,3-Trichloropropane	U		0.00573	0.0140	1	10/22/2018 21:45	WG1184727
1,2,4-Trimethylbenzene	0.00139 J	J	0.00130	0.00561	1	10/22/2018 21:45	WG1184727
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	10/22/2018 21:45	WG1184727
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	10/22/2018 21:45	WG1184727
Vinyl acetate	U		0.00395	0.0140	1	10/22/2018 21:45	WG1184727
Vinyl chloride	U		0.000767	0.00281	1	10/22/2018 21:45	WG1184727
Xylenes, Total	U		0.00537	0.00730	1	10/22/2018 21:45	WG1184727
(S) Toluene-d8	*132*	J1		*75.0-131*		*10/22/2018 21:45*	WG1184727
(S) Toluene-d8	*97.8*			*75.0-131*		*10/24/2018 19:32*	WG1185319
(S) Dibromofluoromethane	*87.2*			*65.0-129*		*10/22/2018 21:45*	WG1184727
(S) Dibromofluoromethane	*119*			*65.0-129*		*10/24/2018 19:32*	WG1185319
(S) 4-Bromofluorobenzene	*80.8*			*67.0-138*		*10/22/2018 21:45*	WG1184727
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*10/24/2018 19:32*	WG1185319

Sample Narrative:

L1036473-21 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-21 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.8		1	10/24/2018 13:36	WG1185670

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0604	0.110	4	10/24/2018 17:52	WG1185319
Acrylonitrile	U		0.00209	0.0138	1	10/22/2018 22:05	WG1184727
Benzene	U		0.000441	0.00110	1	10/22/2018 22:05	WG1184727
Bromobenzene	U		0.00116	0.0138	1	10/22/2018 22:05	WG1184727
Bromodichloromethane	U		0.000868	0.00275	1	10/22/2018 22:05	WG1184727
Bromochloromethane	U		0.00124	0.00551	1	10/22/2018 22:05	WG1184727
Bromoform	U		0.00659	0.0275	1	10/22/2018 22:05	WG1184727
Bromomethane	U		0.00408	0.0138	1	10/22/2018 22:05	WG1184727
n-Butylbenzene	U		0.00423	0.0138	1	10/22/2018 22:05	WG1184727
sec-Butylbenzene	U		0.00279	0.0138	1	10/22/2018 22:05	WG1184727
tert-Butylbenzene	U		0.00171	0.00551	1	10/22/2018 22:05	WG1184727
Carbon disulfide	U		0.00447	0.0138	1	10/22/2018 22:05	WG1184727
Carbon tetrachloride	U		0.00119	0.00551	1	10/22/2018 22:05	WG1184727
Chlorobenzene	U		0.000631	0.00275	1	10/22/2018 22:05	WG1184727
Chlorodibromomethane	U		0.000496	0.00275	1	10/22/2018 22:05	WG1184727
Chloroethane	U		0.00119	0.00551	1	10/22/2018 22:05	WG1184727
Chloroform	0.00118	U B J	0.000457	0.00275	1	10/22/2018 22:05	WG1184727
Chloromethane	U		0.00153	0.0138	1	10/22/2018 22:05	WG1184727
2-Chlorotoluene	U		0.00101	0.00275	1	10/22/2018 22:05	WG1184727
4-Chlorotoluene	U		0.00124	0.00551	1	10/22/2018 22:05	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00562	0.0275	1	10/22/2018 22:05	WG1184727
1,2-Dibromoethane	U		0.000578	0.00275	1	10/22/2018 22:05	WG1184727
Dibromomethane	U		0.00110	0.00551	1	10/22/2018 22:05	WG1184727
1,2-Dichlorobenzene	U		0.00160	0.00551	1	10/22/2018 22:05	WG1184727
1,3-Dichlorobenzene	U		0.00187	0.00551	1	10/22/2018 22:05	WG1184727
1,4-Dichlorobenzene	U		0.00217	0.00551	1	10/22/2018 22:05	WG1184727
Dichlorodifluoromethane	U		0.000901	0.00275	1	10/22/2018 22:05	WG1184727
1,1-Dichloroethane	U		0.000633	0.00275	1	10/22/2018 22:05	WG1184727
1,2-Dichloroethane	U		0.000523	0.00275	1	10/22/2018 22:05	WG1184727
1,1-Dichloroethene	U		0.000551	0.00275	1	10/22/2018 22:05	WG1184727
cis-1,2-Dichloroethene	U		0.000760	0.00275	1	10/22/2018 22:05	WG1184727
trans-1,2-Dichloroethene	U		0.00158	0.00551	1	10/22/2018 22:05	WG1184727
1,2-Dichloropropane	U		0.00560	0.0220	4	10/24/2018 17:52	WG1185319
1,1-Dichloropropene	U		0.000771	0.00275	1	10/22/2018 22:05	WG1184727
1,3-Dichloropropane	U		0.00193	0.00551	1	10/22/2018 22:05	WG1184727
cis-1,3-Dichloropropene	U		0.000747	0.00275	1	10/22/2018 22:05	WG1184727
trans-1,3-Dichloropropene	U		0.00169	0.00551	1	10/22/2018 22:05	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	10/22/2018 22:05	WG1184727
2,2-Dichloropropane	U		0.000873	0.00275	1	10/22/2018 22:05	WG1184727
Di-isopropyl ether	U		0.000386	0.00110	1	10/22/2018 22:05	WG1184727
Ethylbenzene	U		0.000584	0.00275	1	10/22/2018 22:05	WG1184727
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	10/22/2018 22:05	WG1184727
2-Hexanone	U		0.0110	0.0275	1	10/22/2018 22:05	WG1184727
n-Hexane	U		0.00467	0.0220	4	10/24/2018 17:52	WG1185319
Iodomethane	U		0.00666	0.0138	1	10/22/2018 22:05	WG1184727
Isopropylbenzene	U		0.000951	0.00275	1	10/22/2018 22:05	WG1184727
p-Isopropyltoluene	U		0.00257	0.00551	1	10/22/2018 22:05	WG1184727
2-Butanone (MEK)	U		0.0551	0.110	4	10/24/2018 17:52	WG1185319
Methylene Chloride	U		0.00731	0.0275	1	10/22/2018 22:05	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/22/2018 22:05	WG1184727

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SAMPLE RESULTS - 22

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	10/22/2018 22:05	WG1184727
Naphthalene	U		0.00344	0.0138	1	10/22/2018 22:05	WG1184727
n-Propylbenzene	U		0.00130	0.00551	1	10/22/2018 22:05	WG1184727
Styrene	U		0.00301	0.0138	1	10/22/2018 22:05	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000551	0.00275	1	10/22/2018 22:05	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000430	0.00275	1	10/22/2018 22:05	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000743	0.00275	1	10/22/2018 22:05	WG1184727
Tetrachloroethene	0.868 J	J0	0.00308	0.0110	4	10/24/2018 17:52	WG1185319
Toluene	U		0.00138	0.00551	1	10/22/2018 22:05	WG1184727
1,2,3-Trichlorobenzene	U		0.000688	0.00275	1	10/22/2018 22:05	WG1184727
1,2,4-Trichlorobenzene	U		0.00531	0.0138	1	10/22/2018 22:05	WG1184727
1,1,1-Trichloroethane	U		0.000303	0.00275	1	10/22/2018 22:05	WG1184727
1,1,2-Trichloroethane	U		0.00389	0.0110	4	10/24/2018 17:52	WG1185319
Trichloroethene	0.00529		0.000441	0.00110	1	10/22/2018 22:05	WG1184727
Trichlorofluoromethane	U		0.000551	0.00275	1	10/22/2018 22:05	WG1184727
1,2,3-Trichloropropane	U		0.00562	0.0138	1	10/22/2018 22:05	WG1184727
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	10/22/2018 22:05	WG1184727
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	10/22/2018 22:05	WG1184727
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	10/22/2018 22:05	WG1184727
Vinyl acetate	U		0.00388	0.0138	1	10/22/2018 22:05	WG1184727
Vinyl chloride	U		0.000752	0.00275	1	10/22/2018 22:05	WG1184727
Xylenes, Total	U		0.00526	0.00716	1	10/22/2018 22:05	WG1184727
(S) Toluene-d8	*127*			*75.0-131*		*10/22/2018 22:05*	WG1184727
(S) Toluene-d8	*98.2*			*75.0-131*		*10/24/2018 17:52*	WG1185319
(S) Dibromofluoromethane	*93.5*			*65.0-129*		*10/22/2018 22:05*	WG1184727
(S) Dibromofluoromethane	*119*			*65.0-129*		*10/24/2018 17:52*	WG1185319
(S) 4-Bromofluorobenzene	*89.2*			*67.0-138*		*10/22/2018 22:05*	WG1184727
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/24/2018 17:52*	WG1185319

Sample Narrative:

L1036473-22 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-22 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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B-266-5

Collected date/time: 10/18/18 13:35

SAMPLE RESULTS - 23

L1036473

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.1		1	10/24/2018 13:36	WG1185670

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0288 J	J	0.0167	0.0305	1	10/24/2018 14:32	WG1185319	
Acrylonitrile	U		0.00232	0.0152	1	10/22/2018 22:26	WG1184727	
Benzene	U		0.000487	0.00122	1	10/22/2018 22:26	WG1184727	
Bromobenzene	U		0.00128	0.0152	1	10/22/2018 22:26	WG1184727	
Bromodichloromethane	U		0.000960	0.00305	1	10/22/2018 22:26	WG1184727	
Bromochloromethane	U		0.00138	0.00609	1	10/22/2018 22:26	WG1184727	
Bromoform	U		0.00729	0.0305	1	10/22/2018 22:26	WG1184727	
Bromomethane	U		0.00451	0.0152	1	10/22/2018 22:26	WG1184727	
n-Butylbenzene	U		0.00468	0.0152	1	10/22/2018 22:26	WG1184727	
sec-Butylbenzene	U		0.00308	0.0152	1	10/22/2018 22:26	WG1184727	
tert-Butylbenzene	U		0.00189	0.00609	1	10/22/2018 22:26	WG1184727	
Carbon disulfide	U		0.00495	0.0152	1	10/22/2018 22:26	WG1184727	
Carbon tetrachloride	U		0.00132	0.00609	1	10/22/2018 22:26	WG1184727	
Chlorobenzene	U		0.000698	0.00305	1	10/22/2018 22:26	WG1184727	
Chlorodibromomethane	U		0.000548	0.00305	1	10/22/2018 22:26	WG1184727	
Chloroethane	U		0.00132	0.00609	1	10/22/2018 22:26	WG1184727	
Chloroform	0.00119 U	B J	0.000506	0.00305	1	10/22/2018 22:26	WG1184727	
Chloromethane	U		0.00169	0.0152	1	10/22/2018 22:26	WG1184727	
2-Chlorotoluene	U		0.00112	0.00305	1	10/22/2018 22:26	WG1184727	
4-Chlorotoluene	U		0.00138	0.00609	1	10/22/2018 22:26	WG1184727	
1,2-Dibromo-3-Chloropropane	U		0.00621	0.0305	1	10/22/2018 22:26	WG1184727	
1,2-Dibromoethane	U		0.000640	0.00305	1	10/22/2018 22:26	WG1184727	
Dibromomethane	U		0.00122	0.00609	1	10/22/2018 22:26	WG1184727	
1,2-Dichlorobenzene	U		0.00177	0.00609	1	10/22/2018 22:26	WG1184727	
1,3-Dichlorobenzene	U		0.00207	0.00609	1	10/22/2018 22:26	WG1184727	
1,4-Dichlorobenzene	U		0.00240	0.00609	1	10/22/2018 22:26	WG1184727	
Dichlorodifluoromethane	U		0.000997	0.00305	1	10/22/2018 22:26	WG1184727	
1,1-Dichloroethane	U		0.000701	0.00305	1	10/22/2018 22:26	WG1184727	
1,2-Dichloroethane	U		0.000579	0.00305	1	10/22/2018 22:26	WG1184727	
1,1-Dichloroethene	U		0.000609	0.00305	1	10/22/2018 22:26	WG1184727	
cis-1,2-Dichloroethene	0.00515		0.000841	0.00305	1	10/22/2018 22:26	WG1184727	
trans-1,2-Dichloroethene	U		0.00174	0.00609	1	10/22/2018 22:26	WG1184727	
1,2-Dichloropropane	U		0.00155	0.00609	1	10/24/2018 14:32	WG1185319	
1,1-Dichloropropene	U		0.000853	0.00305	1	10/22/2018 22:26	WG1184727	
1,3-Dichloropropane	U		0.00213	0.00609	1	10/22/2018 22:26	WG1184727	
cis-1,3-Dichloropropene	U		0.000826	0.00305	1	10/22/2018 22:26	WG1184727	
trans-1,3-Dichloropropene	U		0.00186	0.00609	1	10/22/2018 22:26	WG1184727	
trans-1,4-Dichloro-2-butene	U		0.00171	0.00609	1	10/22/2018 22:26	WG1184727	
2,2-Dichloropropane	U		0.000966	0.00305	1	10/22/2018 22:26	WG1184727	
Di-isopropyl ether	U		0.000426	0.00122	1	10/22/2018 22:26	WG1184727	
Ethylbenzene	U		0.000646	0.00305	1	10/22/2018 22:26	WG1184727	
Hexachloro-1,3-butadiene	U		0.0155	0.0305	1	10/22/2018 22:26	WG1184727	
2-Hexanone	U		0.0122	0.0305	1	10/22/2018 22:26	WG1184727	
n-Hexane	0.00663		0.00129	0.00609	1	10/24/2018 14:32	WG1185319	
Iodomethane	U		0.00737	0.0152	1	10/22/2018 22:26	WG1184727	
Isopropylbenzene	U		0.00105	0.00305	1	10/22/2018 22:26	WG1184727	
p-Isopropyltoluene	U		0.00284	0.00609	1	10/22/2018 22:26	WG1184727	
2-Butanone (MEK)	U		0.0152	0.0305	1	10/24/2018 14:32	WG1185319	JC 11/15/18
Methylene Chloride	U		0.00809	0.0305	1	10/22/2018 22:26	WG1184727	
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0305	1	10/22/2018 22:26	WG1184727	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000359	0.00122	1	10/22/2018 22:26	WG1184727
Naphthalene	U		0.00380	0.0152	1	10/22/2018 22:26	WG1184727
n-Propylbenzene	U		0.00144	0.00609	1	10/22/2018 22:26	WG1184727
Styrene	U		0.00333	0.0152	1	10/22/2018 22:26	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000609	0.00305	1	10/22/2018 22:26	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000475	0.00305	1	10/22/2018 22:26	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000823	0.00305	1	10/22/2018 22:26	WG1184727
Tetrachloroethene	0.0153 J	J0	0.000853	0.00305	1	10/24/2018 14:32	WG1185319
Toluene	0.00546 J	J	0.00152	0.00609	1	10/22/2018 22:26	WG1184727
1,2,3-Trichlorobenzene	U		0.000762	0.00305	1	10/22/2018 22:26	WG1184727
1,2,4-Trichlorobenzene	U		0.00587	0.0152	1	10/22/2018 22:26	WG1184727
1,1,1-Trichloroethane	U		0.000335	0.00305	1	10/22/2018 22:26	WG1184727
1,1,2-Trichloroethane	U		0.00108	0.00305	1	10/24/2018 14:32	WG1185319
Trichloroethene	0.00639		0.000487	0.00122	1	10/22/2018 22:26	WG1184727
Trichlorofluoromethane	U		0.000609	0.00305	1	10/22/2018 22:26	WG1184727
1,2,3-Trichloropropane	U		0.00621	0.0152	1	10/22/2018 22:26	WG1184727
1,2,4-Trimethylbenzene	U		0.00141	0.00609	1	10/22/2018 22:26	WG1184727
1,2,3-Trimethylbenzene	U		0.00140	0.00609	1	10/22/2018 22:26	WG1184727
1,3,5-Trimethylbenzene	U		0.00132	0.00609	1	10/22/2018 22:26	WG1184727
Vinyl acetate	U		0.00429	0.0152	1	10/22/2018 22:26	WG1184727
Vinyl chloride	U		0.000832	0.00305	1	10/22/2018 22:26	WG1184727
Xylenes, Total	U		0.00582	0.00792	1	10/22/2018 22:26	WG1184727
(S) Toluene-d8	*127*			*75.0-131*		*10/22/2018 22:26*	WG1184727
(S) Toluene-d8	*98.5*			*75.0-131*		*10/24/2018 14:32*	WG1185319
(S) Dibromofluoromethane	*94.8*			*65.0-129*		*10/22/2018 22:26*	WG1184727
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/24/2018 14:32*	WG1185319
(S) 4-Bromofluorobenzene	*88.2*			*67.0-138*		*10/22/2018 22:26*	WG1184727
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/24/2018 14:32*	WG1185319

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.3		1	10/24/2018 13:36	WG1185670

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0173	0.0315	1.05	10/24/2018 14:52	WG1185319
Acrylonitrile	U		0.00241	0.0159	1.06	10/22/2018 22:46	WG1184727
Benzene	U		0.000509	0.00127	1.06	10/22/2018 22:46	WG1184727
Bromobenzene	U		0.00133	0.0159	1.06	10/22/2018 22:46	WG1184727
Bromodichloromethane	U		0.00100	0.00318	1.06	10/22/2018 22:46	WG1184727
Bromochloromethane	U		0.00144	0.00636	1.06	10/22/2018 22:46	WG1184727
Bromoform	U		0.00761	0.0318	1.06	10/22/2018 22:46	WG1184727
Bromomethane	U		0.00471	0.0159	1.06	10/22/2018 22:46	WG1184727
n-Butylbenzene	U		0.00489	0.0159	1.06	10/22/2018 22:46	WG1184727
sec-Butylbenzene	U		0.00322	0.0159	1.06	10/22/2018 22:46	WG1184727
tert-Butylbenzene	U		0.00197	0.00636	1.06	10/22/2018 22:46	WG1184727
Carbon disulfide	U		0.00516	0.0159	1.06	10/22/2018 22:46	WG1184727
Carbon tetrachloride	U		0.00137	0.00636	1.06	10/22/2018 22:46	WG1184727
Chlorobenzene	U		0.000729	0.00318	1.06	10/22/2018 22:46	WG1184727
Chlorodibromomethane	U		0.000573	0.00318	1.06	10/22/2018 22:46	WG1184727
Chloroethane	U		0.00137	0.00636	1.06	10/22/2018 22:46	WG1184727
Chloroform	0.00156 U	B J	0.000528	0.00318	1.06	10/22/2018 22:46	WG1184727
Chloromethane	U		0.00176	0.0159	1.06	10/22/2018 22:46	WG1184727
2-Chlorotoluene	U		0.00117	0.00318	1.06	10/22/2018 22:46	WG1184727
4-Chlorotoluene	U		0.00144	0.00636	1.06	10/22/2018 22:46	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00649	0.0318	1.06	10/22/2018 22:46	WG1184727
1,2-Dibromoethane	U		0.000667	0.00318	1.06	10/22/2018 22:46	WG1184727
Dibromomethane	U		0.00127	0.00636	1.06	10/22/2018 22:46	WG1184727
1,2-Dichlorobenzene	U		0.00185	0.00636	1.06	10/22/2018 22:46	WG1184727
1,3-Dichlorobenzene	U		0.00216	0.00636	1.06	10/22/2018 22:46	WG1184727
1,4-Dichlorobenzene	U		0.00251	0.00636	1.06	10/22/2018 22:46	WG1184727
Dichlorodifluoromethane	U		0.00104	0.00318	1.06	10/22/2018 22:46	WG1184727
1,1-Dichloroethane	U		0.000732	0.00318	1.06	10/22/2018 22:46	WG1184727
1,2-Dichloroethane	U		0.000605	0.00318	1.06	10/22/2018 22:46	WG1184727
1,1-Dichloroethene	U		0.000636	0.00318	1.06	10/22/2018 22:46	WG1184727
cis-1,2-Dichloroethene	0.00854		0.000877	0.00318	1.06	10/22/2018 22:46	WG1184727
trans-1,2-Dichloroethene	U		0.00182	0.00636	1.06	10/22/2018 22:46	WG1184727
1,2-Dichloropropane	U		0.00160	0.00630	1.05	10/24/2018 14:52	WG1185319
1,1-Dichloropropene	U		0.000891	0.00318	1.06	10/22/2018 22:46	WG1184727
1,3-Dichloropropane	U		0.00223	0.00636	1.06	10/22/2018 22:46	WG1184727
cis-1,3-Dichloropropene	U		0.000863	0.00318	1.06	10/22/2018 22:46	WG1184727
trans-1,3-Dichloropropene	U		0.00194	0.00636	1.06	10/22/2018 22:46	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00178	0.00636	1.06	10/22/2018 22:46	WG1184727
2,2-Dichloropropane	U		0.00101	0.00318	1.06	10/22/2018 22:46	WG1184727
Di-isopropyl ether	U		0.000445	0.00127	1.06	10/22/2018 22:46	WG1184727
Ethylbenzene	U		0.000675	0.00318	1.06	10/22/2018 22:46	WG1184727
Hexachloro-1,3-butadiene	U		0.0162	0.0318	1.06	10/22/2018 22:46	WG1184727
2-Hexanone	U		0.0127	0.0318	1.06	10/22/2018 22:46	WG1184727
n-Hexane	U		0.00133	0.00630	1.05	10/24/2018 14:52	WG1185319
Iodomethane	U		0.00769	0.0159	1.06	10/22/2018 22:46	WG1184727
Isopropylbenzene	U		0.00110	0.00318	1.06	10/22/2018 22:46	WG1184727
p-Isopropyltoluene	U		0.00296	0.00636	1.06	10/22/2018 22:46	WG1184727
2-Butanone (MEK)	U		0.0157	0.0315	1.05	10/24/2018 14:52	WG1185319
Methylene Chloride	U		0.00845	0.0318	1.06	10/22/2018 22:46	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0127	0.0318	1.06	10/22/2018 22:46	WG1184727

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000376	0.00127	1.06	10/22/2018 22:46	WG1184727
Naphthalene	U		0.00397	0.0159	1.06	10/22/2018 22:46	WG1184727
n-Propylbenzene	U		0.00150	0.00636	1.06	10/22/2018 22:46	WG1184727
Styrene	U		0.00347	0.0159	1.06	10/22/2018 22:46	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000636	0.00318	1.06	10/22/2018 22:46	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000496	0.00318	1.06	10/22/2018 22:46	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000859	0.00318	1.06	10/22/2018 22:46	WG1184727
Tetrachloroethene	0.00703 J	J0	0.000882	0.00315	1.05	10/24/2018 14:52	WG1185319
Toluene	0.00302 J	J	0.00158	0.00636	1.06	10/22/2018 22:46	WG1184727
1,2,3-Trichlorobenzene	U		0.000795	0.00318	1.06	10/22/2018 22:46	WG1184727
1,2,4-Trichlorobenzene	U		0.00613	0.0159	1.06	10/22/2018 22:46	WG1184727
1,1,1-Trichloroethane	U		0.000350	0.00318	1.06	10/22/2018 22:46	WG1184727
1,1,2-Trichloroethane	U		0.00111	0.00315	1.05	10/24/2018 14:52	WG1185319
Trichloroethene	0.00919		0.000509	0.00127	1.06	10/22/2018 22:46	WG1184727
Trichlorofluoromethane	U		0.000636	0.00318	1.06	10/22/2018 22:46	WG1184727
1,2,3-Trichloropropane	U		0.00649	0.0159	1.06	10/22/2018 22:46	WG1184727
1,2,4-Trimethylbenzene	U		0.00148	0.00636	1.06	10/22/2018 22:46	WG1184727
1,2,3-Trimethylbenzene	U		0.00146	0.00636	1.06	10/22/2018 22:46	WG1184727
1,3,5-Trimethylbenzene	U		0.00137	0.00636	1.06	10/22/2018 22:46	WG1184727
Vinyl acetate	U		0.00448	0.0159	1.06	10/22/2018 22:46	WG1184727
Vinyl chloride	U		0.000869	0.00318	1.06	10/22/2018 22:46	WG1184727
Xylenes, Total	U		0.00609	0.00827	1.06	10/22/2018 22:46	WG1184727
(S) Toluene-d8	*124*			*75.0-131*		*10/22/2018 22:46*	WG1184727
(S) Toluene-d8	*98.9*			*75.0-131*		*10/24/2018 14:52*	WG1185319
(S) Dibromofluoromethane	*85.6*			*65.0-129*		*10/22/2018 22:46*	WG1184727
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/24/2018 14:52*	WG1185319
(S) 4-Bromofluorobenzene	*88.2*			*67.0-138*		*10/22/2018 22:46*	WG1184727
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*10/24/2018 14:52*	WG1185319

JC 11/15/18

B-266-10
Collected date/time: 10/18/18 13:39

SAMPLE RESULTS - 25

L1036473

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.6		1	10/24/2018 14:00	WG1185671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0220	0.0402	1.41	10/24/2018 15:12	WG1185319	
Acrylonitrile	U		0.00306	0.0201	1.41	10/22/2018 23:06	WG1184727	
Benzene	U		0.000644	0.00161	1.41	10/22/2018 23:06	WG1184727	
Bromobenzene	U		0.00169	0.0201	1.41	10/22/2018 23:06	WG1184727	
Bromodichloromethane	U		0.00127	0.00402	1.41	10/22/2018 23:06	WG1184727	
Bromochloromethane	U		0.00181	0.00805	1.41	10/22/2018 23:06	WG1184727	
Bromoform	U		0.00962	0.0402	1.41	10/22/2018 23:06	WG1184727	
Bromomethane	U		0.00596	0.0201	1.41	10/22/2018 23:06	WG1184727	
n-Butylbenzene	U		0.00617	0.0201	1.41	10/22/2018 23:06	WG1184727	
sec-Butylbenzene	U		0.00407	0.0201	1.41	10/22/2018 23:06	WG1184727	
tert-Butylbenzene	U		0.00249	0.00805	1.41	10/22/2018 23:06	WG1184727	
Carbon disulfide	U		0.00653	0.0201	1.41	10/22/2018 23:06	WG1184727	
Carbon tetrachloride	U		0.00173	0.00805	1.41	10/22/2018 23:06	WG1184727	
Chlorobenzene	U		0.000922	0.00402	1.41	10/22/2018 23:06	WG1184727	
Chlorodibromomethane	U		0.000724	0.00402	1.41	10/22/2018 23:06	WG1184727	
Chloroethane	U		0.00173	0.00805	1.41	10/22/2018 23:06	WG1184727	
Chloroform	0.00180 U	B J	0.000668	0.00402	1.41	10/22/2018 23:06	WG1184727	
Chloromethane	U		0.00224	0.0201	1.41	10/22/2018 23:06	WG1184727	JC 11/15/18
2-Chlorotoluene	U		0.00148	0.00402	1.41	10/22/2018 23:06	WG1184727	
4-Chlorotoluene	U		0.00181	0.00805	1.41	10/22/2018 23:06	WG1184727	
1,2-Dibromo-3-Chloropropane	U		0.00821	0.0402	1.41	10/22/2018 23:06	WG1184727	
1,2-Dibromoethane	U		0.000845	0.00402	1.41	10/22/2018 23:06	WG1184727	
Dibromomethane	U		0.00161	0.00805	1.41	10/22/2018 23:06	WG1184727	
1,2-Dichlorobenzene	U		0.00233	0.00805	1.41	10/22/2018 23:06	WG1184727	
1,3-Dichlorobenzene	U		0.00274	0.00805	1.41	10/22/2018 23:06	WG1184727	
1,4-Dichlorobenzene	U		0.00317	0.00805	1.41	10/22/2018 23:06	WG1184727	
Dichlorodifluoromethane	U		0.00131	0.00402	1.41	10/22/2018 23:06	WG1184727	
1,1-Dichloroethane	U		0.000926	0.00402	1.41	10/22/2018 23:06	WG1184727	
1,2-Dichloroethane	U		0.000765	0.00402	1.41	10/22/2018 23:06	WG1184727	
1,1-Dichloroethene	U		0.000805	0.00402	1.41	10/22/2018 23:06	WG1184727	
cis-1,2-Dichloroethene	0.00620		0.00111	0.00402	1.41	10/22/2018 23:06	WG1184727	
trans-1,2-Dichloroethene	U		0.00231	0.00805	1.41	10/22/2018 23:06	WG1184727	
1,2-Dichloropropane	U		0.00204	0.00805	1.41	10/24/2018 15:12	WG1185319	
1,1-Dichloropropene	U		0.00113	0.00402	1.41	10/22/2018 23:06	WG1184727	
1,3-Dichloropropane	U		0.00282	0.00805	1.41	10/22/2018 23:06	WG1184727	
cis-1,3-Dichloropropene	U		0.00109	0.00402	1.41	10/22/2018 23:06	WG1184727	
trans-1,3-Dichloropropene	U		0.00247	0.00805	1.41	10/22/2018 23:06	WG1184727	
trans-1,4-Dichloro-2-butene	U		0.00225	0.00805	1.41	10/22/2018 23:06	WG1184727	
2,2-Dichloropropane	U		0.00128	0.00402	1.41	10/22/2018 23:06	WG1184727	
Di-isopropyl ether	U		0.000564	0.00161	1.41	10/22/2018 23:06	WG1184727	
Ethylbenzene	U		0.000853	0.00402	1.41	10/22/2018 23:06	WG1184727	
Hexachloro-1,3-butadiene	U		0.0204	0.0402	1.41	10/22/2018 23:06	WG1184727	
2-Hexanone	U		0.0161	0.0402	1.41	10/22/2018 23:06	WG1184727	
n-Hexane	U		0.00170	0.00805	1.41	10/24/2018 15:12	WG1185319	
Iodomethane	U		0.00974	0.0201	1.41	10/22/2018 23:06	WG1184727	
Isopropylbenzene	U		0.00139	0.00402	1.41	10/22/2018 23:06	WG1184727	
p-Isopropyltoluene	U		0.00374	0.00805	1.41	10/22/2018 23:06	WG1184727	
2-Butanone (MEK)	U		0.0201	0.0402	1.41	10/24/2018 15:12	WG1185319	
Methylene Chloride	U		0.0107	0.0402	1.41	10/22/2018 23:06	WG1184727	
4-Methyl-2-pentanone (MIBK)	U		0.0161	0.0402	1.41	10/22/2018 23:06	WG1184727	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000475	0.00161	1.41	10/22/2018 23:06	WG1184727
Naphthalene	U		0.00502	0.0201	1.41	10/22/2018 23:06	WG1184727
n-Propylbenzene	U		0.00189	0.00805	1.41	10/22/2018 23:06	WG1184727
Styrene	U		0.00439	0.0201	1.41	10/22/2018 23:06	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000805	0.00402	1.41	10/22/2018 23:06	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000628	0.00402	1.41	10/22/2018 23:06	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.00109	0.00402	1.41	10/22/2018 23:06	WG1184727
Tetrachloroethene	0.00843 J	J0	0.00113	0.00402	1.41	10/24/2018 15:12	WG1185319
Toluene	U		0.00201	0.00805	1.41	10/22/2018 23:06	WG1184727
1,2,3-Trichlorobenzene	U		0.00101	0.00402	1.41	10/22/2018 23:06	WG1184727
1,2,4-Trichlorobenzene	U		0.00776	0.0201	1.41	10/22/2018 23:06	WG1184727
1,1,1-Trichloroethane	U		0.000443	0.00402	1.41	10/22/2018 23:06	WG1184727
1,1,2-Trichloroethane	U		0.00142	0.00402	1.41	10/24/2018 15:12	WG1185319
Trichloroethene	0.00315		0.000644	0.00161	1.41	10/22/2018 23:06	WG1184727
Trichlorofluoromethane	U		0.000805	0.00402	1.41	10/22/2018 23:06	WG1184727
1,2,3-Trichloropropane	U		0.00821	0.0201	1.41	10/22/2018 23:06	WG1184727
1,2,4-Trimethylbenzene	U		0.00187	0.00805	1.41	10/22/2018 23:06	WG1184727
1,2,3-Trimethylbenzene	U		0.00185	0.00805	1.41	10/22/2018 23:06	WG1184727
1,3,5-Trimethylbenzene	U		0.00173	0.00805	1.41	10/22/2018 23:06	WG1184727
Vinyl acetate	U		0.00566	0.0201	1.41	10/22/2018 23:06	WG1184727
Vinyl chloride	U		0.00110	0.00402	1.41	10/22/2018 23:06	WG1184727
Xylenes, Total	U		0.00769	0.0105	1.41	10/22/2018 23:06	WG1184727
(S) Toluene-d8	*125*			*75.0-131*		*10/22/2018 23:06*	WG1184727
(S) Toluene-d8	*99.7*			*75.0-131*		*10/24/2018 15:12*	WG1185319
(S) Dibromofluoromethane	*94.3*			*65.0-129*		*10/22/2018 23:06*	WG1184727
(S) Dibromofluoromethane	*115*			*65.0-129*		*10/24/2018 15:12*	WG1185319
(S) 4-Bromofluorobenzene	*90.6*			*67.0-138*		*10/22/2018 23:06*	WG1184727
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/24/2018 15:12*	WG1185319

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.0		1	10/24/2018 14:00	WG1185671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.183	0.333	11.6	10/24/2018 18:12	WG1185319
Acrylonitrile	U		0.00253	0.0167	1.16	10/22/2018 23:27	WG1184727
Benzene	U		0.000534	0.00133	1.16	10/22/2018 23:27	WG1184727
Bromobenzene	U		0.00140	0.0167	1.16	10/22/2018 23:27	WG1184727
Bromodichloromethane	U		0.00105	0.00333	1.16	10/22/2018 23:27	WG1184727
Bromochloromethane	U		0.00151	0.00667	1.16	10/22/2018 23:27	WG1184727
Bromoform	U		0.00798	0.0333	1.16	10/22/2018 23:27	WG1184727
Bromomethane	U		0.00493	0.0167	1.16	10/22/2018 23:27	WG1184727
n-Butylbenzene	U		0.00512	0.0167	1.16	10/22/2018 23:27	WG1184727
sec-Butylbenzene	U		0.00337	0.0167	1.16	10/22/2018 23:27	WG1184727
tert-Butylbenzene	U		0.00207	0.00667	1.16	10/22/2018 23:27	WG1184727
Carbon disulfide	U		0.00542	0.0167	1.16	10/22/2018 23:27	WG1184727
Carbon tetrachloride	U		0.00144	0.00667	1.16	10/22/2018 23:27	WG1184727
Chlorobenzene	U		0.000765	0.00333	1.16	10/22/2018 23:27	WG1184727
Chlorodibromomethane	U		0.000600	0.00333	1.16	10/22/2018 23:27	WG1184727
Chloroethane	U		0.00144	0.00667	1.16	10/22/2018 23:27	WG1184727
Chloroform	0.00182 U	B J	0.000553	0.00333	1.16	10/22/2018 23:27	WG1184727
Chloromethane	U		0.00185	0.0167	1.16	10/22/2018 23:27	WG1184727
2-Chlorotoluene	U		0.00123	0.00333	1.16	10/22/2018 23:27	WG1184727
4-Chlorotoluene	U		0.00151	0.00667	1.16	10/22/2018 23:27	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00681	0.0333	1.16	10/22/2018 23:27	WG1184727
1,2-Dibromoethane	U		0.000700	0.00333	1.16	10/22/2018 23:27	WG1184727
Dibromomethane	U		0.00133	0.00667	1.16	10/22/2018 23:27	WG1184727
1,2-Dichlorobenzene	U		0.00193	0.00667	1.16	10/22/2018 23:27	WG1184727
1,3-Dichlorobenzene	U		0.00227	0.00667	1.16	10/22/2018 23:27	WG1184727
1,4-Dichlorobenzene	U		0.00262	0.00667	1.16	10/22/2018 23:27	WG1184727
Dichlorodifluoromethane	U		0.00109	0.00333	1.16	10/22/2018 23:27	WG1184727
1,1-Dichloroethane	U		0.000767	0.00333	1.16	10/22/2018 23:27	WG1184727
1,2-Dichloroethane	U		0.000634	0.00333	1.16	10/22/2018 23:27	WG1184727
1,1-Dichloroethene	U		0.000667	0.00333	1.16	10/22/2018 23:27	WG1184727
cis-1,2-Dichloroethene	U		0.000920	0.00333	1.16	10/22/2018 23:27	WG1184727
trans-1,2-Dichloroethene	U		0.00191	0.00667	1.16	10/22/2018 23:27	WG1184727
1,2-Dichloropropane	U		0.0169	0.0667	11.6	10/24/2018 18:12	WG1185319
1,1-Dichloropropene	U		0.000934	0.00333	1.16	10/22/2018 23:27	WG1184727
1,3-Dichloropropane	U		0.00233	0.00667	1.16	10/22/2018 23:27	WG1184727
cis-1,3-Dichloropropene	U		0.000904	0.00333	1.16	10/22/2018 23:27	WG1184727
trans-1,3-Dichloropropene	U		0.00204	0.00667	1.16	10/22/2018 23:27	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00186	0.00667	1.16	10/22/2018 23:27	WG1184727
2,2-Dichloropropane	U		0.00106	0.00333	1.16	10/22/2018 23:27	WG1184727
Di-isopropyl ether	U		0.000467	0.00133	1.16	10/22/2018 23:27	WG1184727
Ethylbenzene	U		0.000707	0.00333	1.16	10/22/2018 23:27	WG1184727
Hexachloro-1,3-butadiene	U		0.0169	0.0333	1.16	10/22/2018 23:27	WG1184727
2-Hexanone	U		0.0133	0.0333	1.16	10/22/2018 23:27	WG1184727
n-Hexane	U		0.0141	0.0667	11.6	10/24/2018 18:12	WG1185319
Iodomethane	U		0.00807	0.0167	1.16	10/22/2018 23:27	WG1184727
Isopropylbenzene	U		0.00115	0.00333	1.16	10/22/2018 23:27	WG1184727
p-Isopropyltoluene	U		0.00310	0.00667	1.16	10/22/2018 23:27	WG1184727
2-Butanone (MEK)	U		0.167	0.333	11.6	10/24/2018 18:12	WG1185319
Methylene Chloride	U		0.00885	0.0333	1.16	10/22/2018 23:27	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0133	0.0333	1.16	10/22/2018 23:27	WG1184727

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000393	0.00133	1.16	10/22/2018 23:27	WG1184727
Naphthalene	U		0.00416	0.0167	1.16	10/22/2018 23:27	WG1184727
n-Propylbenzene	U		0.00158	0.00667	1.16	10/22/2018 23:27	WG1184727
Styrene	U		0.00365	0.0167	1.16	10/22/2018 23:27	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000667	0.00333	1.16	10/22/2018 23:27	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000520	0.00333	1.16	10/22/2018 23:27	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000900	0.00333	1.16	10/22/2018 23:27	WG1184727
Tetrachloroethene	1.79 J	J0	0.00934	0.0333	11.6	10/24/2018 18:12	WG1185319
Toluene	0.00296 J	J	0.00167	0.00667	1.16	10/22/2018 23:27	WG1184727
1,2,3-Trichlorobenzene	U		0.000834	0.00333	1.16	10/22/2018 23:27	WG1184727
1,2,4-Trichlorobenzene	U		0.00643	0.0167	1.16	10/22/2018 23:27	WG1184727
1,1,1-Trichloroethane	U		0.000367	0.00333	1.16	10/22/2018 23:27	WG1184727
1,1,2-Trichloroethane	U		0.0117	0.0333	11.6	10/24/2018 18:12	WG1185319
Trichloroethene	0.00212		0.000534	0.00133	1.16	10/22/2018 23:27	WG1184727
Trichlorofluoromethane	U		0.000667	0.00333	1.16	10/22/2018 23:27	WG1184727
1,2,3-Trichloropropane	U		0.00681	0.0167	1.16	10/22/2018 23:27	WG1184727
1,2,4-Trimethylbenzene	U		0.00154	0.00667	1.16	10/22/2018 23:27	WG1184727
1,2,3-Trimethylbenzene	U		0.00153	0.00667	1.16	10/22/2018 23:27	WG1184727
1,3,5-Trimethylbenzene	U		0.00144	0.00667	1.16	10/22/2018 23:27	WG1184727
Vinyl acetate	U		0.00469	0.0167	1.16	10/22/2018 23:27	WG1184727
Vinyl chloride	U		0.000911	0.00333	1.16	10/22/2018 23:27	WG1184727
Xylenes, Total	U		0.00637	0.00867	1.16	10/22/2018 23:27	WG1184727
(S) Toluene-d8	*122*			*75.0-131*		*10/22/2018 23:27*	WG1184727
(S) Toluene-d8	*97.5*			*75.0-131*		*10/24/2018 18:12*	WG1185319
(S) Dibromofluoromethane	*86.2*			*65.0-129*		*10/22/2018 23:27*	WG1184727
(S) Dibromofluoromethane	*119*			*65.0-129*		*10/24/2018 18:12*	WG1185319
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*		*10/22/2018 23:27*	WG1184727
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*10/24/2018 18:12*	WG1185319

JC 11/15/18

Sample Narrative:

L1036473-26 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-26 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.7		1	10/24/2018 14:00	WG1185671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.611	1.11	40	10/24/2018 19:12	WG1185319
Acrylonitrile	U		0.00212	0.0139	1	10/22/2018 23:47	WG1184727
Benzene	U		0.000446	0.00111	1	10/22/2018 23:47	WG1184727
Bromobenzene	U		0.00117	0.0139	1	10/22/2018 23:47	WG1184727
Bromodichloromethane	U		0.000878	0.00279	1	10/22/2018 23:47	WG1184727
Bromochloromethane	U		0.00126	0.00557	1	10/22/2018 23:47	WG1184727
Bromoform	U		0.00667	0.0279	1	10/22/2018 23:47	WG1184727
Bromomethane	U		0.00412	0.0139	1	10/22/2018 23:47	WG1184727
n-Butylbenzene	U		0.00428	0.0139	1	10/22/2018 23:47	WG1184727
sec-Butylbenzene	U		0.00282	0.0139	1	10/22/2018 23:47	WG1184727
tert-Butylbenzene	U		0.00173	0.00557	1	10/22/2018 23:47	WG1184727
Carbon disulfide	U		0.00453	0.0139	1	10/22/2018 23:47	WG1184727
Carbon tetrachloride	U		0.00120	0.00557	1	10/22/2018 23:47	WG1184727
Chlorobenzene	U		0.000639	0.00279	1	10/22/2018 23:47	WG1184727
Chlorodibromomethane	U		0.000502	0.00279	1	10/22/2018 23:47	WG1184727
Chloroethane	U		0.00120	0.00557	1	10/22/2018 23:47	WG1184727
Chloroform	0.00109 U	B J	0.000463	0.00279	1	10/22/2018 23:47	WG1184727
Chloromethane	U		0.00155	0.0139	1	10/22/2018 23:47	WG1184727
2-Chlorotoluene	U		0.00103	0.00279	1	10/22/2018 23:47	WG1184727
4-Chlorotoluene	U		0.00126	0.00557	1	10/22/2018 23:47	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00568	0.0279	1	10/22/2018 23:47	WG1184727
1,2-Dibromoethane	U		0.000585	0.00279	1	10/22/2018 23:47	WG1184727
Dibromomethane	U		0.00111	0.00557	1	10/22/2018 23:47	WG1184727
1,2-Dichlorobenzene	U		0.00162	0.00557	1	10/22/2018 23:47	WG1184727
1,3-Dichlorobenzene	U		0.00189	0.00557	1	10/22/2018 23:47	WG1184727
1,4-Dichlorobenzene	U		0.00220	0.00557	1	10/22/2018 23:47	WG1184727
Dichlorodifluoromethane	U		0.000912	0.00279	1	10/22/2018 23:47	WG1184727
1,1-Dichloroethane	U		0.000641	0.00279	1	10/22/2018 23:47	WG1184727
1,2-Dichloroethane	U		0.000529	0.00279	1	10/22/2018 23:47	WG1184727
1,1-Dichloroethene	U		0.000557	0.00279	1	10/22/2018 23:47	WG1184727
cis-1,2-Dichloroethene	0.0195		0.000769	0.00279	1	10/22/2018 23:47	WG1184727
trans-1,2-Dichloroethene	U		0.00159	0.00557	1	10/22/2018 23:47	WG1184727
1,2-Dichloropropane	U		0.0566	0.223	40	10/24/2018 19:12	WG1185319
1,1-Dichloropropene	U		0.000780	0.00279	1	10/22/2018 23:47	WG1184727
1,3-Dichloropropane	U		0.00195	0.00557	1	10/22/2018 23:47	WG1184727
cis-1,3-Dichloropropene	U		0.000756	0.00279	1	10/22/2018 23:47	WG1184727
trans-1,3-Dichloropropene	U		0.00171	0.00557	1	10/22/2018 23:47	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00156	0.00557	1	10/22/2018 23:47	WG1184727
2,2-Dichloropropane	U		0.000884	0.00279	1	10/22/2018 23:47	WG1184727
Di-isopropyl ether	U		0.000390	0.00111	1	10/22/2018 23:47	WG1184727
Ethylbenzene	U		0.000591	0.00279	1	10/22/2018 23:47	WG1184727
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/22/2018 23:47	WG1184727
2-Hexanone	U		0.0111	0.0279	1	10/22/2018 23:47	WG1184727
n-Hexane	U		0.0473	0.223	40	10/24/2018 19:12	WG1185319
Iodomethane	U		0.00674	0.0139	1	10/22/2018 23:47	WG1184727
Isopropylbenzene	U		0.000962	0.00279	1	10/22/2018 23:47	WG1184727
p-Isopropyltoluene	U		0.00260	0.00557	1	10/22/2018 23:47	WG1184727
2-Butanone (MEK)	U		0.557	1.11	40	10/24/2018 19:12	WG1185319
Methylene Chloride	U		0.00740	0.0279	1	10/22/2018 23:47	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0279	1	10/22/2018 23:47	WG1184727

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B-266-20
Collected date/time: 10/18/18 13:53

SAMPLE RESULTS - 27

L1036473

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00111	1	10/22/2018 23:47	WG1184727
Naphthalene	U		0.00348	0.0139	1	10/22/2018 23:47	WG1184727
n-Propylbenzene	U		0.00132	0.00557	1	10/22/2018 23:47	WG1184727
Styrene	U		0.00304	0.0139	1	10/22/2018 23:47	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000557	0.00279	1	10/22/2018 23:47	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	10/22/2018 23:47	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000752	0.00279	1	10/22/2018 23:47	WG1184727
Tetrachloroethene	5.70 J	J0	0.0312	0.111	40	10/24/2018 19:12	WG1185319
Toluene	0.00330 J	J	0.00139	0.00557	1	10/22/2018 23:47	WG1184727
1,2,3-Trichlorobenzene	U		0.000697	0.00279	1	10/22/2018 23:47	WG1184727
1,2,4-Trichlorobenzene	U		0.00537	0.0139	1	10/22/2018 23:47	WG1184727
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/22/2018 23:47	WG1184727
1,1,2-Trichloroethane	U		0.0393	0.111	40	10/24/2018 19:12	WG1185319
Trichloroethene	0.111		0.000446	0.00111	1	10/22/2018 23:47	WG1184727
Trichlorofluoromethane	U		0.000557	0.00279	1	10/22/2018 23:47	WG1184727
1,2,3-Trichloropropane	U		0.00568	0.0139	1	10/22/2018 23:47	WG1184727
1,2,4-Trimethylbenzene	U		0.00129	0.00557	1	10/22/2018 23:47	WG1184727
1,2,3-Trimethylbenzene	U		0.00128	0.00557	1	10/22/2018 23:47	WG1184727
1,3,5-Trimethylbenzene	U		0.00120	0.00557	1	10/22/2018 23:47	WG1184727
Vinyl acetate	U		0.00392	0.0139	1	10/22/2018 23:47	WG1184727
Vinyl chloride	U		0.000761	0.00279	1	10/22/2018 23:47	WG1184727
Xylenes, Total	U		0.00533	0.00725	1	10/22/2018 23:47	WG1184727
(S) Toluene-d8	*123*			*75.0-131*		*10/22/2018 23:47*	WG1184727
(S) Toluene-d8	*98.5*			*75.0-131*		*10/24/2018 19:12*	WG1185319
(S) Dibromofluoromethane	*92.9*			*65.0-129*		*10/22/2018 23:47*	WG1184727
(S) Dibromofluoromethane	*119*			*65.0-129*		*10/24/2018 19:12*	WG1185319
(S) 4-Bromofluorobenzene	*89.5*			*67.0-138*		*10/22/2018 23:47*	WG1184727
(S) 4-Bromofluorobenzene	*124*			*67.0-138*		*10/24/2018 19:12*	WG1185319

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Sample Narrative:

L1036473-27 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-27 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.2		1	10/24/2018 14:00	WG1185671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0165	0.0300	1	10/24/2018 15:32	WG1185319
Acrylonitrile	U		0.00228	0.0150	1	10/23/2018 00:07	WG1184727
Benzene	U		0.000481	0.00120	1	10/23/2018 00:07	WG1184727
Bromobenzene	U		0.00126	0.0150	1	10/23/2018 00:07	WG1184727
Bromodichloromethane	U		0.000947	0.00300	1	10/23/2018 00:07	WG1184727
Bromochloromethane	U		0.00136	0.00601	1	10/23/2018 00:07	WG1184727
Bromoform	U		0.00719	0.0300	1	10/23/2018 00:07	WG1184727
Bromomethane	U		0.00445	0.0150	1	10/23/2018 00:07	WG1184727
n-Butylbenzene	U		0.00462	0.0150	1	10/23/2018 00:07	WG1184727
sec-Butylbenzene	U		0.00304	0.0150	1	10/23/2018 00:07	WG1184727
tert-Butylbenzene	U		0.00186	0.00601	1	10/23/2018 00:07	WG1184727
Carbon disulfide	U		0.00488	0.0150	1	10/23/2018 00:07	WG1184727
Carbon tetrachloride	U		0.00130	0.00601	1	10/23/2018 00:07	WG1184727
Chlorobenzene	U		0.000689	0.00300	1	10/23/2018 00:07	WG1184727
Chlorodibromomethane	U		0.000541	0.00300	1	10/23/2018 00:07	WG1184727
Chloroethane	U		0.00130	0.00601	1	10/23/2018 00:07	WG1184727
Chloroform	0.00132 U	B J	0.000499	0.00300	1	10/23/2018 00:07	WG1184727
Chloromethane	U		0.00167	0.0150	1	10/23/2018 00:07	WG1184727
2-Chlorotoluene	U		0.00111	0.00300	1	10/23/2018 00:07	WG1184727
4-Chlorotoluene	U		0.00136	0.00601	1	10/23/2018 00:07	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00613	0.0300	1	10/23/2018 00:07	WG1184727
1,2-Dibromoethane	U		0.000631	0.00300	1	10/23/2018 00:07	WG1184727
Dibromomethane	U		0.00120	0.00601	1	10/23/2018 00:07	WG1184727
1,2-Dichlorobenzene	U		0.00174	0.00601	1	10/23/2018 00:07	WG1184727
1,3-Dichlorobenzene	U		0.00204	0.00601	1	10/23/2018 00:07	WG1184727
1,4-Dichlorobenzene	U		0.00237	0.00601	1	10/23/2018 00:07	WG1184727
Dichlorodifluoromethane	U		0.000983	0.00300	1	10/23/2018 00:07	WG1184727
1,1-Dichloroethane	U		0.000691	0.00300	1	10/23/2018 00:07	WG1184727
1,2-Dichloroethane	U		0.000571	0.00300	1	10/23/2018 00:07	WG1184727
1,1-Dichloroethene	U		0.000601	0.00300	1	10/23/2018 00:07	WG1184727
cis-1,2-Dichloroethene	U		0.000829	0.00300	1	10/23/2018 00:07	WG1184727
trans-1,2-Dichloroethene	U		0.00172	0.00601	1	10/23/2018 00:07	WG1184727
1,2-Dichloropropane	U		0.00153	0.00601	1	10/24/2018 15:32	WG1185319
1,1-Dichloropropene	U		0.000841	0.00300	1	10/23/2018 00:07	WG1184727
1,3-Dichloropropane	U		0.00210	0.00601	1	10/23/2018 00:07	WG1184727
cis-1,3-Dichloropropene	U		0.000815	0.00300	1	10/23/2018 00:07	WG1184727
trans-1,3-Dichloropropene	U		0.00184	0.00601	1	10/23/2018 00:07	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00168	0.00601	1	10/23/2018 00:07	WG1184727
2,2-Dichloropropane	U		0.000953	0.00300	1	10/23/2018 00:07	WG1184727
Di-isopropyl ether	U		0.000421	0.00120	1	10/23/2018 00:07	WG1184727
Ethylbenzene	U		0.000637	0.00300	1	10/23/2018 00:07	WG1184727
Hexachloro-1,3-butadiene	U		0.0153	0.0300	1	10/23/2018 00:07	WG1184727
2-Hexanone	U		0.0120	0.0300	1	10/23/2018 00:07	WG1184727
n-Hexane	U		0.00127	0.00601	1	10/24/2018 15:32	WG1185319
Iodomethane	U		0.00727	0.0150	1	10/23/2018 00:07	WG1184727
Isopropylbenzene	U		0.00104	0.00300	1	10/23/2018 00:07	WG1184727
p-Isopropyltoluene	U		0.00280	0.00601	1	10/23/2018 00:07	WG1184727
2-Butanone (MEK)	U		0.0150	0.0300	1	10/24/2018 15:32	WG1185319
Methylene Chloride	U		0.00798	0.0300	1	10/23/2018 00:07	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0300	1	10/23/2018 00:07	WG1184727

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000355	0.00120	1	10/23/2018 00:07	WG1184727
Naphthalene	U		0.00375	0.0150	1	10/23/2018 00:07	WG1184727
n-Propylbenzene	U		0.00142	0.00601	1	10/23/2018 00:07	WG1184727
Styrene	U		0.00328	0.0150	1	10/23/2018 00:07	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000601	0.00300	1	10/23/2018 00:07	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000469	0.00300	1	10/23/2018 00:07	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000811	0.00300	1	10/23/2018 00:07	WG1184727
Tetrachloroethene	0.00171 J	J J0	0.000841	0.00300	1	10/24/2018 15:32	WG1185319
Toluene	U		0.00150	0.00601	1	10/23/2018 00:07	WG1184727
1,2,3-Trichlorobenzene	U		0.000751	0.00300	1	10/23/2018 00:07	WG1184727
1,2,4-Trichlorobenzene	U		0.00579	0.0150	1	10/23/2018 00:07	WG1184727
1,1,1-Trichloroethane	U		0.000331	0.00300	1	10/23/2018 00:07	WG1184727
1,1,2-Trichloroethane	U		0.00106	0.00300	1	10/24/2018 15:32	WG1185319
Trichloroethene	U		0.000481	0.00120	1	10/23/2018 00:07	WG1184727
Trichlorofluoromethane	U		0.000601	0.00300	1	10/23/2018 00:07	WG1184727
1,2,3-Trichloropropane	U		0.00613	0.0150	1	10/23/2018 00:07	WG1184727
1,2,4-Trimethylbenzene	U		0.00139	0.00601	1	10/23/2018 00:07	WG1184727
1,2,3-Trimethylbenzene	U		0.00138	0.00601	1	10/23/2018 00:07	WG1184727
1,3,5-Trimethylbenzene	U		0.00130	0.00601	1	10/23/2018 00:07	WG1184727
Vinyl acetate	U		0.00423	0.0150	1	10/23/2018 00:07	WG1184727
Vinyl chloride	U		0.000821	0.00300	1	10/23/2018 00:07	WG1184727
Xylenes, Total	U		0.00574	0.00781	1	10/23/2018 00:07	WG1184727
(S) Toluene-d8	*123*			*75.0-131*		*10/23/2018 00:07*	WG1184727
(S) Toluene-d8	*98.6*			*75.0-131*		*10/24/2018 15:32*	WG1185319
(S) Dibromofluoromethane	*91.8*			*65.0-129*		*10/23/2018 00:07*	WG1184727
(S) Dibromofluoromethane	*116*			*65.0-129*		*10/24/2018 15:32*	WG1185319
(S) 4-Bromofluorobenzene	*89.5*			*67.0-138*		*10/23/2018 00:07*	WG1184727
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/24/2018 15:32*	WG1185319

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B-267-5

Collected date/time: 10/18/18 14:44

SAMPLE RESULTS - 29

L1036473

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.7		1	10/24/2018 14:00	WG1185671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0149	0.0273	1	10/24/2018 15:52	WG1185319
Acrylonitrile	U		0.00207	0.0136	1	10/23/2018 00:28	WG1184727
Benzene	U		0.000436	0.00109	1	10/23/2018 00:28	WG1184727
Bromobenzene	U		0.00115	0.0136	1	10/23/2018 00:28	WG1184727
Bromodichloromethane	U		0.000859	0.00273	1	10/23/2018 00:28	WG1184727
Bromochloromethane	U		0.00123	0.00545	1	10/23/2018 00:28	WG1184727
Bromoform	U		0.00652	0.0273	1	10/23/2018 00:28	WG1184727
Bromomethane	U		0.00404	0.0136	1	10/23/2018 00:28	WG1184727
n-Butylbenzene	U		0.00419	0.0136	1	10/23/2018 00:28	WG1184727
sec-Butylbenzene	U		0.00276	0.0136	1	10/23/2018 00:28	WG1184727
tert-Butylbenzene	U		0.00169	0.00545	1	10/23/2018 00:28	WG1184727
Carbon disulfide	U		0.00443	0.0136	1	10/23/2018 00:28	WG1184727
Carbon tetrachloride	U		0.00118	0.00545	1	10/23/2018 00:28	WG1184727
Chlorobenzene	U		0.000625	0.00273	1	10/23/2018 00:28	WG1184727
Chlorodibromomethane	U		0.000491	0.00273	1	10/23/2018 00:28	WG1184727
Chloroethane	U		0.00118	0.00545	1	10/23/2018 00:28	WG1184727
Chloroform	0.00101 U	B J	0.000453	0.00273	1	10/23/2018 00:28	WG1184727
Chloromethane	U		0.00152	0.0136	1	10/23/2018 00:28	WG1184727
2-Chlorotoluene	U		0.00100	0.00273	1	10/23/2018 00:28	WG1184727
4-Chlorotoluene	U		0.00123	0.00545	1	10/23/2018 00:28	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	10/23/2018 00:28	WG1184727
1,2-Dibromoethane	U		0.000573	0.00273	1	10/23/2018 00:28	WG1184727
Dibromomethane	U		0.00109	0.00545	1	10/23/2018 00:28	WG1184727
1,2-Dichlorobenzene	U		0.00158	0.00545	1	10/23/2018 00:28	WG1184727
1,3-Dichlorobenzene	U		0.00185	0.00545	1	10/23/2018 00:28	WG1184727
1,4-Dichlorobenzene	U		0.00215	0.00545	1	10/23/2018 00:28	WG1184727
Dichlorodifluoromethane	U		0.000892	0.00273	1	10/23/2018 00:28	WG1184727
1,1-Dichloroethane	U		0.000627	0.00273	1	10/23/2018 00:28	WG1184727
1,2-Dichloroethane	U		0.000518	0.00273	1	10/23/2018 00:28	WG1184727
1,1-Dichloroethene	U		0.000545	0.00273	1	10/23/2018 00:28	WG1184727
cis-1,2-Dichloroethene	U		0.000753	0.00273	1	10/23/2018 00:28	WG1184727
trans-1,2-Dichloroethene	U		0.00156	0.00545	1	10/23/2018 00:28	WG1184727
1,2-Dichloropropane	U		0.00139	0.00545	1	10/24/2018 15:52	WG1185319
1,1-Dichloropropene	U		0.000764	0.00273	1	10/23/2018 00:28	WG1184727
1,3-Dichloropropane	U		0.00191	0.00545	1	10/23/2018 00:28	WG1184727
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	10/23/2018 00:28	WG1184727
trans-1,3-Dichloropropene	U		0.00167	0.00545	1	10/23/2018 00:28	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00153	0.00545	1	10/23/2018 00:28	WG1184727
2,2-Dichloropropane	U		0.000865	0.00273	1	10/23/2018 00:28	WG1184727
Di-isopropyl ether	U		0.000382	0.00109	1	10/23/2018 00:28	WG1184727
Ethylbenzene	U		0.000578	0.00273	1	10/23/2018 00:28	WG1184727
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	10/23/2018 00:28	WG1184727
2-Hexanone	U		0.0109	0.0273	1	10/23/2018 00:28	WG1184727
n-Hexane	U		0.00116	0.00545	1	10/24/2018 15:52	WG1185319
Iodomethane	U		0.00660	0.0136	1	10/23/2018 00:28	WG1184727
Isopropylbenzene	U		0.000941	0.00273	1	10/23/2018 00:28	WG1184727
p-Isopropyltoluene	U		0.00254	0.00545	1	10/23/2018 00:28	WG1184727
2-Butanone (MEK)	U		0.0136	0.0273	1	10/24/2018 15:52	WG1185319
Methylene Chloride	U		0.00724	0.0273	1	10/23/2018 00:28	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/23/2018 00:28	WG1184727

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	10/23/2018 00:28	WG1184727
Naphthalene	U		0.00340	0.0136	1	10/23/2018 00:28	WG1184727
n-Propylbenzene	U		0.00129	0.00545	1	10/23/2018 00:28	WG1184727
Styrene	U		0.00298	0.0136	1	10/23/2018 00:28	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000545	0.00273	1	10/23/2018 00:28	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000425	0.00273	1	10/23/2018 00:28	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000736	0.00273	1	10/23/2018 00:28	WG1184727
Tetrachloroethene	0.138		0.000764	0.00273	1	10/23/2018 00:28	WG1184727
Toluene	0.00570		0.00136	0.00545	1	10/23/2018 00:28	WG1184727
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	10/23/2018 00:28	WG1184727
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	10/23/2018 00:28	WG1184727
1,1,1-Trichloroethane	U		0.000300	0.00273	1	10/23/2018 00:28	WG1184727
1,1,2-Trichloroethane	U		0.000963	0.00273	1	10/24/2018 15:52	WG1185319
Trichloroethene	0.000945 J	J	0.000436	0.00109	1	10/23/2018 00:28	WG1184727
Trichlorofluoromethane	U		0.000545	0.00273	1	10/23/2018 00:28	WG1184727
1,2,3-Trichloropropane	U		0.00556	0.0136	1	10/23/2018 00:28	WG1184727
1,2,4-Trimethylbenzene	U		0.00127	0.00545	1	10/23/2018 00:28	WG1184727
1,2,3-Trimethylbenzene	U		0.00125	0.00545	1	10/23/2018 00:28	WG1184727
1,3,5-Trimethylbenzene	U		0.00118	0.00545	1	10/23/2018 00:28	WG1184727
Vinyl acetate	U		0.00384	0.0136	1	10/23/2018 00:28	WG1184727
Vinyl chloride	U		0.000745	0.00273	1	10/23/2018 00:28	WG1184727
Xylenes, Total	U		0.00521	0.00709	1	10/23/2018 00:28	WG1184727
(S) Toluene-d8	*121*			*75.0-131*		*10/23/2018 00:28*	WG1184727
(S) Toluene-d8	*99.9*			*75.0-131*		*10/24/2018 15:52*	WG1185319
(S) Dibromofluoromethane	*75.8*			*65.0-129*		*10/23/2018 00:28*	WG1184727
(S) Dibromofluoromethane	*113*			*65.0-129*		*10/24/2018 15:52*	WG1185319
(S) 4-Bromofluorobenzene	*89.1*			*67.0-138*		*10/23/2018 00:28*	WG1184727
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*10/24/2018 15:52*	WG1185319

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.8		1	10/24/2018 14:00	WG1185671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0654	0.119	4	10/24/2018 18:32	WG1185319
Acrylonitrile	U		0.00227	0.0149	1	10/23/2018 00:48	WG1184727
Benzene	U		0.000477	0.00119	1	10/23/2018 00:48	WG1184727
Bromobenzene	U		0.00125	0.0149	1	10/23/2018 00:48	WG1184727
Bromodichloromethane	U		0.000940	0.00298	1	10/23/2018 00:48	WG1184727
Bromochloromethane	U		0.00135	0.00597	1	10/23/2018 00:48	WG1184727
Bromoform	U		0.00713	0.0298	1	10/23/2018 00:48	WG1184727
Bromomethane	U		0.00441	0.0149	1	10/23/2018 00:48	WG1184727
n-Butylbenzene	U		0.00458	0.0149	1	10/23/2018 00:48	WG1184727
sec-Butylbenzene	U		0.00302	0.0149	1	10/23/2018 00:48	WG1184727
tert-Butylbenzene	U		0.00185	0.00597	1	10/23/2018 00:48	WG1184727
Carbon disulfide	U		0.00484	0.0149	1	10/23/2018 00:48	WG1184727
Carbon tetrachloride	U		0.00129	0.00597	1	10/23/2018 00:48	WG1184727
Chlorobenzene	U		0.000684	0.00298	1	10/23/2018 00:48	WG1184727
Chlorodibromomethane	U		0.000537	0.00298	1	10/23/2018 00:48	WG1184727
Chloroethane	U		0.00129	0.00597	1	10/23/2018 00:48	WG1184727
Chloroform	0.00112 U	B J	0.000495	0.00298	1	10/23/2018 00:48	WG1184727
Chloromethane	U		0.00166	0.0149	1	10/23/2018 00:48	WG1184727
2-Chlorotoluene	U		0.00110	0.00298	1	10/23/2018 00:48	WG1184727
4-Chlorotoluene	U		0.00135	0.00597	1	10/23/2018 00:48	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00608	0.0298	1	10/23/2018 00:48	WG1184727
1,2-Dibromoethane	U		0.000626	0.00298	1	10/23/2018 00:48	WG1184727
Dibromomethane	U		0.00119	0.00597	1	10/23/2018 00:48	WG1184727
1,2-Dichlorobenzene	U		0.00173	0.00597	1	10/23/2018 00:48	WG1184727
1,3-Dichlorobenzene	U		0.00203	0.00597	1	10/23/2018 00:48	WG1184727
1,4-Dichlorobenzene	U		0.00235	0.00597	1	10/23/2018 00:48	WG1184727
Dichlorodifluoromethane	U		0.000976	0.00298	1	10/23/2018 00:48	WG1184727
1,1-Dichloroethane	U		0.000686	0.00298	1	10/23/2018 00:48	WG1184727
1,2-Dichloroethane	U		0.000567	0.00298	1	10/23/2018 00:48	WG1184727
1,1-Dichloroethene	U		0.000597	0.00298	1	10/23/2018 00:48	WG1184727
cis-1,2-Dichloroethene	U		0.000823	0.00298	1	10/23/2018 00:48	WG1184727
trans-1,2-Dichloroethene	U		0.00171	0.00597	1	10/23/2018 00:48	WG1184727
1,2-Dichloropropane	U		0.00606	0.0239	4	10/24/2018 18:32	WG1185319
1,1-Dichloropropene	U		0.000835	0.00298	1	10/23/2018 00:48	WG1184727
1,3-Dichloropropane	U		0.00209	0.00597	1	10/23/2018 00:48	WG1184727
cis-1,3-Dichloropropene	U		0.000809	0.00298	1	10/23/2018 00:48	WG1184727
trans-1,3-Dichloropropene	U		0.00183	0.00597	1	10/23/2018 00:48	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00167	0.00597	1	10/23/2018 00:48	WG1184727
2,2-Dichloropropane	U		0.000946	0.00298	1	10/23/2018 00:48	WG1184727
Di-isopropyl ether	U		0.000418	0.00119	1	10/23/2018 00:48	WG1184727
Ethylbenzene	U		0.000632	0.00298	1	10/23/2018 00:48	WG1184727
Hexachloro-1,3-butadiene	U		0.0152	0.0298	1	10/23/2018 00:48	WG1184727
2-Hexanone	U		0.0119	0.0298	1	10/23/2018 00:48	WG1184727
n-Hexane	U		0.00506	0.0239	4	10/24/2018 18:32	WG1185319
Iodomethane	U		0.00722	0.0149	1	10/23/2018 00:48	WG1184727
Isopropylbenzene	U		0.00103	0.00298	1	10/23/2018 00:48	WG1184727
p-Isopropyltoluene	U		0.00278	0.00597	1	10/23/2018 00:48	WG1184727
2-Butanone (MEK)	U		0.0597	0.119	4	10/24/2018 18:32	WG1185319
Methylene Chloride	U		0.00792	0.0298	1	10/23/2018 00:48	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	10/23/2018 00:48	WG1184727

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	10/23/2018 00:48	WG1184727
Naphthalene	U		0.00372	0.0149	1	10/23/2018 00:48	WG1184727
n-Propylbenzene	U		0.00141	0.00597	1	10/23/2018 00:48	WG1184727
Styrene	U		0.00326	0.0149	1	10/23/2018 00:48	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000597	0.00298	1	10/23/2018 00:48	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000465	0.00298	1	10/23/2018 00:48	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000805	0.00298	1	10/23/2018 00:48	WG1184727
Tetrachloroethene	0.604 J	J0	0.00334	0.0119	4	10/24/2018 18:32	WG1185319
Toluene	U		0.00149	0.00597	1	10/23/2018 00:48	WG1184727
1,2,3-Trichlorobenzene	U		0.000746	0.00298	1	10/23/2018 00:48	WG1184727
1,2,4-Trichlorobenzene	U		0.00575	0.0149	1	10/23/2018 00:48	WG1184727
1,1,1-Trichloroethane	U		0.000328	0.00298	1	10/23/2018 00:48	WG1184727
1,1,2-Trichloroethane	U		0.00421	0.0119	4	10/24/2018 18:32	WG1185319
Trichloroethene	0.00123		0.000477	0.00119	1	10/23/2018 00:48	WG1184727
Trichlorofluoromethane	U		0.000597	0.00298	1	10/23/2018 00:48	WG1184727
1,2,3-Trichloropropane	U		0.00608	0.0149	1	10/23/2018 00:48	WG1184727
1,2,4-Trimethylbenzene	U		0.00138	0.00597	1	10/23/2018 00:48	WG1184727
1,2,3-Trimethylbenzene	U		0.00137	0.00597	1	10/23/2018 00:48	WG1184727
1,3,5-Trimethylbenzene	U		0.00129	0.00597	1	10/23/2018 00:48	WG1184727
Vinyl acetate	U		0.00420	0.0149	1	10/23/2018 00:48	WG1184727
Vinyl chloride	U		0.000815	0.00298	1	10/23/2018 00:48	WG1184727
Xylenes, Total	U		0.00570	0.00775	1	10/23/2018 00:48	WG1184727
(S) Toluene-d8	*123*			*75.0-131*		*10/23/2018 00:48*	WG1184727
(S) Toluene-d8	*99.0*			*75.0-131*		*10/24/2018 18:32*	WG1185319
(S) Dibromofluoromethane	*98.6*			*65.0-129*		*10/23/2018 00:48*	WG1184727
(S) Dibromofluoromethane	*119*			*65.0-129*		*10/24/2018 18:32*	WG1185319
(S) 4-Bromofluorobenzene	*85.6*			*67.0-138*		*10/23/2018 00:48*	WG1184727
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*10/24/2018 18:32*	WG1185319

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Sample Narrative:

L1036473-30 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-30 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	10/24/2018 14:00	WG1185671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0619	0.113	4	10/24/2018 18:52	WG1185319	
Acrylonitrile	U		0.00215	0.0141	1	10/23/2018 01:08	WG1184727	
Benzene	U		0.000452	0.00113	1	10/23/2018 01:08	WG1184727	
Bromobenzene	U		0.00119	0.0141	1	10/23/2018 01:08	WG1184727	
Bromodichloromethane	U		0.000891	0.00283	1	10/23/2018 01:08	WG1184727	
Bromochloromethane	U		0.00128	0.00565	1	10/23/2018 01:08	WG1184727	
Bromoform	U		0.00676	0.0283	1	10/23/2018 01:08	WG1184727	
Bromomethane	U		0.00418	0.0141	1	10/23/2018 01:08	WG1184727	
n-Butylbenzene	U		0.00434	0.0141	1	10/23/2018 01:08	WG1184727	
sec-Butylbenzene	U		0.00286	0.0141	1	10/23/2018 01:08	WG1184727	
tert-Butylbenzene	U		0.00175	0.00565	1	10/23/2018 01:08	WG1184727	
Carbon disulfide	U		0.00459	0.0141	1	10/23/2018 01:08	WG1184727	
Carbon tetrachloride	U		0.00122	0.00565	1	10/23/2018 01:08	WG1184727	
Chlorobenzene	U		0.000648	0.00283	1	10/23/2018 01:08	WG1184727	
Chlorodibromomethane	U		0.000509	0.00283	1	10/23/2018 01:08	WG1184727	
Chloroethane	U		0.00122	0.00565	1	10/23/2018 01:08	WG1184727	
Chloroform	0.00153 U	B J	0.000469	0.00283	1	10/23/2018 01:08	WG1184727	
Chloromethane	U		0.00157	0.0141	1	10/23/2018 01:08	WG1184727	
2-Chlorotoluene	U		0.00104	0.00283	1	10/23/2018 01:08	WG1184727	
4-Chlorotoluene	U		0.00128	0.00565	1	10/23/2018 01:08	WG1184727	JC 11/15/18
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0283	1	10/23/2018 01:08	WG1184727	
1,2-Dibromoethane	U		0.000593	0.00283	1	10/23/2018 01:08	WG1184727	
Dibromomethane	U		0.00113	0.00565	1	10/23/2018 01:08	WG1184727	
1,2-Dichlorobenzene	U		0.00164	0.00565	1	10/23/2018 01:08	WG1184727	
1,3-Dichlorobenzene	U		0.00192	0.00565	1	10/23/2018 01:08	WG1184727	
1,4-Dichlorobenzene	U		0.00223	0.00565	1	10/23/2018 01:08	WG1184727	
Dichlorodifluoromethane	U		0.000925	0.00283	1	10/23/2018 01:08	WG1184727	
1,1-Dichloroethane	U		0.000650	0.00283	1	10/23/2018 01:08	WG1184727	
1,2-Dichloroethane	U		0.000537	0.00283	1	10/23/2018 01:08	WG1184727	
1,1-Dichloroethene	U		0.000565	0.00283	1	10/23/2018 01:08	WG1184727	
cis-1,2-Dichloroethene	U		0.000780	0.00283	1	10/23/2018 01:08	WG1184727	
trans-1,2-Dichloroethene	U		0.00162	0.00565	1	10/23/2018 01:08	WG1184727	
1,2-Dichloropropane	U		0.00574	0.0226	4	10/24/2018 18:52	WG1185319	
1,1-Dichloropropene	U		0.000791	0.00283	1	10/23/2018 01:08	WG1184727	
1,3-Dichloropropane	U		0.00198	0.00565	1	10/23/2018 01:08	WG1184727	
cis-1,3-Dichloropropene	U		0.000766	0.00283	1	10/23/2018 01:08	WG1184727	
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	10/23/2018 01:08	WG1184727	
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	10/23/2018 01:08	WG1184727	
2,2-Dichloropropane	U		0.000896	0.00283	1	10/23/2018 01:08	WG1184727	
Di-isopropyl ether	U		0.000396	0.00113	1	10/23/2018 01:08	WG1184727	
Ethylbenzene	U		0.000599	0.00283	1	10/23/2018 01:08	WG1184727	
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	10/23/2018 01:08	WG1184727	
2-Hexanone	U		0.0113	0.0283	1	10/23/2018 01:08	WG1184727	
n-Hexane	U		0.00479	0.0226	4	10/24/2018 18:52	WG1185319	
Iodomethane	U		0.00684	0.0141	1	10/23/2018 01:08	WG1184727	
Isopropylbenzene	U		0.000975	0.00283	1	10/23/2018 01:08	WG1184727	
p-Isopropyltoluene	U		0.00263	0.00565	1	10/23/2018 01:08	WG1184727	
2-Butanone (MEK)	U		0.0565	0.113	4	10/24/2018 18:52	WG1185319	
Methylene Chloride	U		0.00750	0.0283	1	10/23/2018 01:08	WG1184727	
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	10/23/2018 01:08	WG1184727	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	10/23/2018 01:08	WG1184727
Naphthalene	U		0.00353	0.0141	1	10/23/2018 01:08	WG1184727
n-Propylbenzene	U		0.00133	0.00565	1	10/23/2018 01:08	WG1184727
Styrene	U		0.00309	0.0141	1	10/23/2018 01:08	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000565	0.00283	1	10/23/2018 01:08	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	10/23/2018 01:08	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00283	1	10/23/2018 01:08	WG1184727
Tetrachloroethene	0.517 J	J0	0.00316	0.0113	4	10/24/2018 18:52	WG1185319
Toluene	0.00188 J	J	0.00141	0.00565	1	10/23/2018 01:08	WG1184727
1,2,3-Trichlorobenzene	U		0.000706	0.00283	1	10/23/2018 01:08	WG1184727
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	10/23/2018 01:08	WG1184727
1,1,1-Trichloroethane	U U	J3	0.000311	0.00283	1	10/23/2018 01:08	WG1184727
1,1,2-Trichloroethane	U		0.00399	0.0113	4	10/24/2018 18:52	WG1185319
Trichloroethene	0.00270		0.000452	0.00113	1	10/23/2018 01:08	WG1184727
Trichlorofluoromethane	U		0.000565	0.00283	1	10/23/2018 01:08	WG1184727
1,2,3-Trichloropropane	U		0.00576	0.0141	1	10/23/2018 01:08	WG1184727
1,2,4-Trimethylbenzene	U		0.00131	0.00565	1	10/23/2018 01:08	WG1184727
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	10/23/2018 01:08	WG1184727
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	10/23/2018 01:08	WG1184727
Vinyl acetate	U		0.00398	0.0141	1	10/23/2018 01:08	WG1184727
Vinyl chloride	U		0.000772	0.00283	1	10/23/2018 01:08	WG1184727
Xylenes, Total	U		0.00540	0.00735	1	10/23/2018 01:08	WG1184727
(S) Toluene-d8	*126*			*75.0-131*		*10/23/2018 01:08*	WG1184727
(S) Toluene-d8	*99.3*			*75.0-131*		*10/24/2018 18:52*	WG1185319
(S) Dibromofluoromethane	*95.3*			*65.0-129*		*10/23/2018 01:08*	WG1184727
(S) Dibromofluoromethane	*118*			*65.0-129*		*10/24/2018 18:52*	WG1185319
(S) 4-Bromofluorobenzene	*86.4*			*67.0-138*		*10/23/2018 01:08*	WG1184727
(S) 4-Bromofluorobenzene	*124*			*67.0-138*		*10/24/2018 18:52*	WG1185319

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Sample Narrative:

L1036473-31 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-31 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.5		1	10/24/2018 14:00	WG1185671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.306	0.559	20	10/26/2018 05:16	WG1186559
Acrylonitrile	U		0.0425	0.279	20	10/26/2018 05:16	WG1186559
Benzene	U		0.00894	0.0224	20	10/26/2018 05:16	WG1186559
Bromobenzene	U		0.0235	0.279	20	10/26/2018 05:16	WG1186559
Bromodichloromethane	U		0.0177	0.0559	20	10/26/2018 05:16	WG1186559
Bromochloromethane	U		0.0253	0.112	20	10/26/2018 05:16	WG1186559
Bromoform	U		0.134	0.559	20	10/26/2018 05:16	WG1186559
Bromomethane	U		0.0827	0.279	20	10/26/2018 05:16	WG1186559
n-Butylbenzene	U		0.0858	0.279	20	10/26/2018 05:16	WG1186559
sec-Butylbenzene	U		0.0566	0.279	20	10/26/2018 05:16	WG1186559
tert-Butylbenzene	U		0.0347	0.112	20	10/26/2018 05:16	WG1186559
Carbon disulfide	U		0.0908	0.279	20	10/26/2018 05:16	WG1186559
Carbon tetrachloride	U		0.0241	0.112	20	10/26/2018 05:16	WG1186559
Chlorobenzene	U		0.0129	0.0559	20	10/26/2018 05:16	WG1186559
Chlorodibromomethane	U		0.0101	0.0559	20	10/26/2018 05:16	WG1186559
Chloroethane	U		0.0241	0.112	20	10/26/2018 05:16	WG1186559
Chloroform	U		0.00928	0.0559	20	10/26/2018 05:16	WG1186559
Chloromethane	U		0.0311	0.279	20	10/26/2018 05:16	WG1186559
2-Chlorotoluene	U		0.0206	0.0559	20	10/26/2018 05:16	WG1186559
4-Chlorotoluene	U		0.0253	0.112	20	10/26/2018 05:16	WG1186559
1,2-Dibromo-3-Chloropropane	U		0.114	0.559	20	10/26/2018 05:16	WG1186559
1,2-Dibromoethane	U		0.0117	0.0559	20	10/26/2018 05:16	WG1186559
Dibromomethane	U		0.0224	0.112	20	10/26/2018 05:16	WG1186559
1,2-Dichlorobenzene	U		0.0324	0.112	20	10/26/2018 05:16	WG1186559
1,3-Dichlorobenzene	U		0.0380	0.112	20	10/26/2018 05:16	WG1186559
1,4-Dichlorobenzene	U		0.0440	0.112	20	10/26/2018 05:16	WG1186559
Dichlorodifluoromethane	U		0.0183	0.0559	20	10/26/2018 05:16	WG1186559
1,1-Dichloroethane	U		0.0129	0.0559	20	10/26/2018 05:16	WG1186559
1,2-Dichloroethane	U		0.0106	0.0559	20	10/26/2018 05:16	WG1186559
1,1-Dichloroethene	U		0.0112	0.0559	20	10/26/2018 05:16	WG1186559
cis-1,2-Dichloroethene	U		0.0154	0.0559	20	10/26/2018 05:16	WG1186559
trans-1,2-Dichloroethene	U		0.0320	0.112	20	10/26/2018 05:16	WG1186559
1,2-Dichloropropane	U		0.0284	0.112	20	10/26/2018 05:16	WG1186559
1,1-Dichloropropene	U		0.0156	0.0559	20	10/26/2018 05:16	WG1186559
1,3-Dichloropropane	U		0.0391	0.112	20	10/26/2018 05:16	WG1186559
cis-1,3-Dichloropropene	U		0.0152	0.0559	20	10/26/2018 05:16	WG1186559
trans-1,3-Dichloropropene	U		0.0342	0.112	20	10/26/2018 05:16	WG1186559
trans-1,4-Dichloro-2-butene	U		0.0313	0.112	20	10/26/2018 05:16	WG1186559
2,2-Dichloropropane	U		0.0178	0.0559	20	10/26/2018 05:16	WG1186559
Di-isopropyl ether	U		0.00782	0.0224	20	10/26/2018 05:16	WG1186559
Ethylbenzene	U		0.0118	0.0559	20	10/26/2018 05:16	WG1186559
Hexachloro-1,3-butadiene	U		0.284	0.559	20	10/26/2018 05:16	WG1186559
2-Hexanone	U		0.224	0.559	20	10/26/2018 05:16	WG1186559
n-Hexane	U		0.0237	0.112	20	10/26/2018 05:16	WG1186559
Iodomethane	U		0.135	0.279	20	10/26/2018 05:16	WG1186559
Isopropylbenzene	U		0.0193	0.0559	20	10/26/2018 05:16	WG1186559
p-Isopropyltoluene	U		0.0521	0.112	20	10/26/2018 05:16	WG1186559
2-Butanone (MEK)	U		0.279	0.559	20	10/26/2018 05:16	WG1186559
Methylene Chloride	U		0.149	0.559	20	10/26/2018 05:16	WG1186559
4-Methyl-2-pentanone (MIBK)	U		0.224	0.559	20	10/26/2018 05:16	WG1186559

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B-267-15

Collected date/time: 10/18/18 14:55

SAMPLE RESULTS - 32

L1036473

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00659	0.0224	20	10/26/2018 05:16	WG1186559
Naphthalene	U		0.0697	0.279	20	10/26/2018 05:16	WG1186559
n-Propylbenzene	U		0.0264	0.112	20	10/26/2018 05:16	WG1186559
Styrene	U		0.0610	0.279	20	10/26/2018 05:16	WG1186559
1,1,1,2-Tetrachloroethane	U		0.0112	0.0559	20	10/26/2018 05:16	WG1186559
1,1,2,2-Tetrachloroethane	U		0.00872	0.0559	20	10/26/2018 05:16	WG1186559
1,1,2-Trichlorotrifluoroethane	U		0.0151	0.0559	20	10/26/2018 05:16	WG1186559
Tetrachloroethene	7.72		0.0156	0.0559	20	10/26/2018 05:16	WG1186559
Toluene	U		0.0279	0.112	20	10/26/2018 05:16	WG1186559
1,2,3-Trichlorobenzene	U		0.0140	0.0559	20	10/26/2018 05:16	WG1186559
1,2,4-Trichlorobenzene	U		0.108	0.279	20	10/26/2018 05:16	WG1186559
1,1,1-Trichloroethane	U		0.00615	0.0559	20	10/26/2018 05:16	WG1186559
1,1,2-Trichloroethane	U		0.0198	0.0559	20	10/26/2018 05:16	WG1186559
Trichloroethene	0.0853		0.00894	0.0224	20	10/26/2018 05:16	WG1186559
Trichlorofluoromethane	U		0.0112	0.0559	20	10/26/2018 05:16	WG1186559
1,2,3-Trichloropropane	U		0.114	0.279	20	10/26/2018 05:16	WG1186559
1,2,4-Trimethylbenzene	U		0.0259	0.112	20	10/26/2018 05:16	WG1186559
1,2,3-Trimethylbenzene	U		0.0257	0.112	20	10/26/2018 05:16	WG1186559
1,3,5-Trimethylbenzene	U		0.0241	0.112	20	10/26/2018 05:16	WG1186559
Vinyl acetate	U		0.0787	0.279	20	10/26/2018 05:16	WG1186559
Vinyl chloride	U		0.0153	0.0559	20	10/26/2018 05:16	WG1186559
Xylenes, Total	U		0.107	0.145	20	10/26/2018 05:16	WG1186559
(S) Toluene-d8	*104*			*75.0-131*		*10/26/2018 05:16*	WG1186559
(S) Dibromofluoromethane	*98.2*			*65.0-129*		*10/26/2018 05:16*	WG1186559
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*10/26/2018 05:16*	WG1186559

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Sample Narrative:

L1036473-32 WG1186559: Diluted due to high levels of target analytes.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.7		1	10/24/2018 14:00	WG1185671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.341	0.621	21.8	10/26/2018 05:35	WG1186559
Acrylonitrile	U		0.0472	0.311	21.8	10/26/2018 05:35	WG1186559
Benzene	U		0.00994	0.0248	21.8	10/26/2018 05:35	WG1186559
Bromobenzene	U		0.0261	0.311	21.8	10/26/2018 05:35	WG1186559
Bromodichloromethane	U		0.0196	0.0621	21.8	10/26/2018 05:35	WG1186559
Bromochloromethane	U		0.0280	0.124	21.8	10/26/2018 05:35	WG1186559
Bromoform	U		0.148	0.621	21.8	10/26/2018 05:35	WG1186559
Bromomethane	U		0.0920	0.311	21.8	10/26/2018 05:35	WG1186559
n-Butylbenzene	U		0.0954	0.311	21.8	10/26/2018 05:35	WG1186559
sec-Butylbenzene	U		0.0629	0.311	21.8	10/26/2018 05:35	WG1186559
tert-Butylbenzene	U		0.0385	0.124	21.8	10/26/2018 05:35	WG1186559
Carbon disulfide	U		0.101	0.311	21.8	10/26/2018 05:35	WG1186559
Carbon tetrachloride	U		0.0268	0.124	21.8	10/26/2018 05:35	WG1186559
Chlorobenzene	U		0.0142	0.0621	21.8	10/26/2018 05:35	WG1186559
Chlorodibromomethane	U		0.0112	0.0621	21.8	10/26/2018 05:35	WG1186559
Chloroethane	U		0.0268	0.124	21.8	10/26/2018 05:35	WG1186559
Chloroform	U		0.0103	0.0621	21.8	10/26/2018 05:35	WG1186559
Chloromethane	U		0.0345	0.311	21.8	10/26/2018 05:35	WG1186559
2-Chlorotoluene	U		0.0228	0.0621	21.8	10/26/2018 05:35	WG1186559
4-Chlorotoluene	U		0.0280	0.124	21.8	10/26/2018 05:35	WG1186559
1,2-Dibromo-3-Chloropropane	U		0.127	0.621	21.8	10/26/2018 05:35	WG1186559
1,2-Dibromoethane	U		0.0130	0.0621	21.8	10/26/2018 05:35	WG1186559
Dibromomethane	U		0.0248	0.124	21.8	10/26/2018 05:35	WG1186559
1,2-Dichlorobenzene	U		0.0360	0.124	21.8	10/26/2018 05:35	WG1186559
1,3-Dichlorobenzene	U		0.0423	0.124	21.8	10/26/2018 05:35	WG1186559
1,4-Dichlorobenzene	U		0.0489	0.124	21.8	10/26/2018 05:35	WG1186559
Dichlorodifluoromethane	U		0.0203	0.0621	21.8	10/26/2018 05:35	WG1186559
1,1-Dichloroethane	U		0.0142	0.0621	21.8	10/26/2018 05:35	WG1186559
1,2-Dichloroethane	U		0.0119	0.0621	21.8	10/26/2018 05:35	WG1186559
1,1-Dichloroethene	U		0.0124	0.0621	21.8	10/26/2018 05:35	WG1186559
cis-1,2-Dichloroethene	U		0.0171	0.0621	21.8	10/26/2018 05:35	WG1186559
trans-1,2-Dichloroethene	U		0.0356	0.124	21.8	10/26/2018 05:35	WG1186559
1,2-Dichloropropane	U		0.0316	0.124	21.8	10/26/2018 05:35	WG1186559
1,1-Dichloropropene	U		0.0174	0.0621	21.8	10/26/2018 05:35	WG1186559
1,3-Dichloropropane	U		0.0435	0.124	21.8	10/26/2018 05:35	WG1186559
cis-1,3-Dichloropropene	U		0.0169	0.0621	21.8	10/26/2018 05:35	WG1186559
trans-1,3-Dichloropropene	U		0.0381	0.124	21.8	10/26/2018 05:35	WG1186559
trans-1,4-Dichloro-2-butene	U		0.0348	0.124	21.8	10/26/2018 05:35	WG1186559
2,2-Dichloropropane	U		0.0197	0.0621	21.8	10/26/2018 05:35	WG1186559
Di-isopropyl ether	U		0.00870	0.0248	21.8	10/26/2018 05:35	WG1186559
Ethylbenzene	U		0.0132	0.0621	21.8	10/26/2018 05:35	WG1186559
Hexachloro-1,3-butadiene	U		0.316	0.621	21.8	10/26/2018 05:35	WG1186559
2-Hexanone	U		0.248	0.621	21.8	10/26/2018 05:35	WG1186559
n-Hexane	U		0.0263	0.124	21.8	10/26/2018 05:35	WG1186559
Iodomethane	U		0.150	0.311	21.8	10/26/2018 05:35	WG1186559
Isopropylbenzene	U		0.0214	0.0621	21.8	10/26/2018 05:35	WG1186559
p-Isopropyltoluene	U		0.0579	0.124	21.8	10/26/2018 05:35	WG1186559
2-Butanone (MEK)	U		0.310	0.621	21.8	10/26/2018 05:35	WG1186559
Methylene Chloride	U		0.165	0.621	21.8	10/26/2018 05:35	WG1186559
4-Methyl-2-pentanone (MIBK)	U		0.248	0.621	21.8	10/26/2018 05:35	WG1186559

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00733	0.0248	21.8	10/26/2018 05:35	WG1186559
Naphthalene	U		0.0775	0.311	21.8	10/26/2018 05:35	WG1186559
n-Propylbenzene	U		0.0293	0.124	21.8	10/26/2018 05:35	WG1186559
Styrene	U		0.0678	0.311	21.8	10/26/2018 05:35	WG1186559
1,1,1,2-Tetrachloroethane	U		0.0124	0.0621	21.8	10/26/2018 05:35	WG1186559
1,1,2,2-Tetrachloroethane	U		0.00969	0.0621	21.8	10/26/2018 05:35	WG1186559
1,1,2-Trichlorotrifluoroethane	U		0.0168	0.0621	21.8	10/26/2018 05:35	WG1186559
Tetrachloroethene	8.01		0.0174	0.0621	21.8	10/26/2018 05:35	WG1186559
Toluene	U		0.0310	0.124	21.8	10/26/2018 05:35	WG1186559
1,2,3-Trichlorobenzene	U		0.0155	0.0621	21.8	10/26/2018 05:35	WG1186559
1,2,4-Trichlorobenzene	U		0.120	0.311	21.8	10/26/2018 05:35	WG1186559
1,1,1-Trichloroethane	U		0.00684	0.0621	21.8	10/26/2018 05:35	WG1186559
1,1,2-Trichloroethane	U		0.0219	0.0621	21.8	10/26/2018 05:35	WG1186559
Trichloroethene	0.102		0.00994	0.0248	21.8	10/26/2018 05:35	WG1186559
Trichlorofluoromethane	U		0.0124	0.0621	21.8	10/26/2018 05:35	WG1186559
1,2,3-Trichloropropane	U		0.127	0.311	21.8	10/26/2018 05:35	WG1186559
1,2,4-Trimethylbenzene	U		0.0288	0.124	21.8	10/26/2018 05:35	WG1186559
1,2,3-Trimethylbenzene	U		0.0286	0.124	21.8	10/26/2018 05:35	WG1186559
1,3,5-Trimethylbenzene	U		0.0268	0.124	21.8	10/26/2018 05:35	WG1186559
Vinyl acetate	U		0.0874	0.311	21.8	10/26/2018 05:35	WG1186559
Vinyl chloride	U		0.0170	0.0621	21.8	10/26/2018 05:35	WG1186559
Xylenes, Total	U		0.119	0.162	21.8	10/26/2018 05:35	WG1186559
(S) Toluene-d8	*108*			*75.0-131*		*10/26/2018 05:35*	WG1186559
(S) Dibromofluoromethane	*98.8*			*65.0-129*		*10/26/2018 05:35*	WG1186559
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/26/2018 05:35*	WG1186559

JC 11/15/18

Sample Narrative:

L1036473-33 WG1186559: Diluted due to high levels of target analytes.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.5		1	10/26/2018 11:19	WG1186450

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0149	0.0273	1.01	10/28/2018 14:08	WG1187558	
Acrylonitrile	U		0.00208	0.0137	1.01	10/26/2018 13:05	WG1186927	
Benzene	U		0.000437	0.00109	1.01	10/26/2018 13:05	WG1186927	
Bromobenzene	U		0.00115	0.0137	1.01	10/26/2018 13:05	WG1186927	
Bromodichloromethane	U		0.000861	0.00273	1.01	10/26/2018 13:05	WG1186927	
Bromochloromethane	U		0.00123	0.00546	1.01	10/26/2018 13:05	WG1186927	
Bromoform	U		0.00653	0.0273	1.01	10/26/2018 13:05	WG1186927	
Bromomethane	U		0.00404	0.0137	1.01	10/26/2018 13:05	WG1186927	
n-Butylbenzene	U		0.00420	0.0137	1.01	10/26/2018 13:05	WG1186927	
sec-Butylbenzene	U		0.00277	0.0137	1.01	10/26/2018 13:05	WG1186927	
tert-Butylbenzene	U		0.00169	0.00546	1.01	10/26/2018 13:05	WG1186927	
Carbon disulfide	0.00592 J	J	0.00443	0.0137	1.01	10/26/2018 13:05	WG1186927	
Carbon tetrachloride	U		0.00118	0.00546	1.01	10/26/2018 13:05	WG1186927	
Chlorobenzene	U		0.000626	0.00273	1.01	10/26/2018 13:05	WG1186927	
Chlorodibromomethane	U		0.000491	0.00273	1.01	10/26/2018 13:05	WG1186927	
Chloroethane	U		0.00118	0.00546	1.01	10/26/2018 13:05	WG1186927	
Chloroform	U		0.000453	0.00273	1.01	10/26/2018 13:05	WG1186927	
Chloromethane	U		0.00151	0.0137	1.01	10/26/2018 13:05	WG1186927	
2-Chlorotoluene	U		0.00100	0.00273	1.01	10/26/2018 13:05	WG1186927	
4-Chlorotoluene	U		0.00123	0.00546	1.01	10/26/2018 13:05	WG1186927	
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1.01	10/26/2018 13:05	WG1186927	
1,2-Dibromoethane	U		0.000573	0.00273	1.01	10/26/2018 13:05	WG1186927	
Dibromomethane	U		0.00109	0.00546	1.01	10/26/2018 13:05	WG1186927	
1,2-Dichlorobenzene	U		0.00158	0.00546	1.01	10/26/2018 13:05	WG1186927	
1,3-Dichlorobenzene	U		0.00186	0.00546	1.01	10/26/2018 13:05	WG1186927	
1,4-Dichlorobenzene	U		0.00215	0.00546	1.01	10/26/2018 13:05	WG1186927	
Dichlorodifluoromethane	U		0.000893	0.00273	1.01	10/26/2018 13:05	WG1186927	
1,1-Dichloroethane	U		0.000628	0.00273	1.01	10/26/2018 13:05	WG1186927	
1,2-Dichloroethane	U		0.000519	0.00273	1.01	10/26/2018 13:05	WG1186927	
1,1-Dichloroethene	U		0.000546	0.00273	1.01	10/26/2018 13:05	WG1186927	
cis-1,2-Dichloroethene	0.165		0.000754	0.00273	1.01	10/26/2018 13:05	WG1186927	
trans-1,2-Dichloroethene	U		0.00156	0.00546	1.01	10/26/2018 13:05	WG1186927	
1,2-Dichloropropane	U		0.00138	0.00546	1.01	10/26/2018 13:05	WG1186927	
1,1-Dichloropropene	U U	J4	0.000764	0.00273	1.01	10/26/2018 13:05	WG1186927	
1,3-Dichloropropane	U		0.00191	0.00546	1.01	10/26/2018 13:05	WG1186927	
cis-1,3-Dichloropropene	U		0.000741	0.00273	1.01	10/26/2018 13:05	WG1186927	
trans-1,3-Dichloropropene	U		0.00167	0.00546	1.01	10/26/2018 13:05	WG1186927	
trans-1,4-Dichloro-2-butene	U		0.00152	0.00546	1.01	10/26/2018 13:05	WG1186927	
2,2-Dichloropropane	U		0.000866	0.00273	1.01	10/26/2018 13:05	WG1186927	
Di-isopropyl ether	U		0.000383	0.00109	1.01	10/26/2018 13:05	WG1186927	
Ethylbenzene	U		0.000578	0.00273	1.01	10/26/2018 13:05	WG1186927	
Hexachloro-1,3-butadiene	U		0.0138	0.0273	1.01	10/26/2018 13:05	WG1186927	
2-Hexanone	U		0.0109	0.0273	1.01	10/26/2018 13:05	WG1186927	
n-Hexane	U		0.00116	0.00546	1.01	10/26/2018 13:05	WG1186927	
Iodomethane	U		0.00661	0.0137	1.01	10/26/2018 13:05	WG1186927	
Isopropylbenzene	U		0.000943	0.00273	1.01	10/26/2018 13:05	WG1186927	
p-Isopropyltoluene	U		0.00254	0.00546	1.01	10/26/2018 13:05	WG1186927	
2-Butanone (MEK)	0.0430 J	J0	0.0136	0.0273	1.01	10/26/2018 13:05	WG1186927	JC 11/16/18
Methylene Chloride	U		0.00726	0.0273	1.01	10/26/2018 13:05	WG1186927	
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1.01	10/26/2018 13:05	WG1186927	

B-254A-27

Collected date/time: 10/19/18 08:05

SAMPLE RESULTS - 01

L1036740

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1.01	10/26/2018 13:05	WG1186927
Naphthalene	U		0.00341	0.0137	1.01	10/26/2018 13:05	WG1186927
n-Propylbenzene	U		0.00129	0.00546	1.01	10/26/2018 13:05	WG1186927
Styrene	U		0.00298	0.0137	1.01	10/26/2018 13:05	WG1186927
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1.01	10/26/2018 13:05	WG1186927
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1.01	10/26/2018 13:05	WG1186927
1,1,2-Trichlorotrifluoroethane	U		0.000737	0.00273	1.01	10/26/2018 13:05	WG1186927
Tetrachloroethene	0.0954		0.000764	0.00273	1.01	10/26/2018 13:05	WG1186927
Toluene	0.00161 J	J	0.00136	0.00546	1.01	10/26/2018 13:05	WG1186927
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1.01	10/26/2018 13:05	WG1186927
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1.01	10/26/2018 13:05	WG1186927
1,1,1-Trichloroethane	U		0.000301	0.00273	1.01	10/26/2018 13:05	WG1186927
1,1,2-Trichloroethane	U		0.000965	0.00273	1.01	10/26/2018 13:05	WG1186927
Trichloroethene	0.0118		0.000437	0.00109	1.01	10/26/2018 13:05	WG1186927
Trichlorofluoromethane	U		0.000546	0.00273	1.01	10/26/2018 13:05	WG1186927
1,2,3-Trichloropropane	U		0.00557	0.0137	1.01	10/26/2018 13:05	WG1186927
1,2,4-Trimethylbenzene	0.00139 J	J	0.00127	0.00546	1.01	10/26/2018 13:05	WG1186927
1,2,3-Trimethylbenzene	U		0.00125	0.00546	1.01	10/26/2018 13:05	WG1186927
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1.01	10/26/2018 13:05	WG1186927
Vinyl acetate	U		0.00385	0.0137	1.01	10/26/2018 13:05	WG1186927
Vinyl chloride	0.0508		0.000746	0.00273	1.01	10/26/2018 13:05	WG1186927
Xylenes, Total	U		0.00522	0.00710	1.01	10/26/2018 13:05	WG1186927
(S) Toluene-d8	*92.4*			*75.0-131*		*10/26/2018 13:05*	WG1186927
(S) Toluene-d8	*82.1*			*75.0-131*		*10/28/2018 14:08*	WG1187558
(S) Dibromofluoromethane	*107*			*65.0-129*		*10/26/2018 13:05*	WG1186927
(S) Dibromofluoromethane	*86.2*			*65.0-129*		*10/28/2018 14:08*	WG1187558
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*10/26/2018 13:05*	WG1186927
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*10/28/2018 14:08*	WG1187558

JC 11/16/18

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.9		1	10/26/2018 11:19	WG1186450

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.147	0.269	10	10/28/2018 14:27	WG1187558	
Acrylonitrile	U		0.00204	0.0135	1	10/26/2018 13:24	WG1186927	
Benzene	U		0.000430	0.00108	1	10/26/2018 13:24	WG1186927	
Bromobenzene	U		0.00113	0.0135	1	10/26/2018 13:24	WG1186927	
Bromodichloromethane	U		0.000848	0.00269	1	10/26/2018 13:24	WG1186927	
Bromochloromethane	U		0.00122	0.00538	1	10/26/2018 13:24	WG1186927	
Bromoform	U		0.00644	0.0269	1	10/26/2018 13:24	WG1186927	
Bromomethane	U		0.00398	0.0135	1	10/26/2018 13:24	WG1186927	
n-Butylbenzene	U		0.00413	0.0135	1	10/26/2018 13:24	WG1186927	
sec-Butylbenzene	U		0.00272	0.0135	1	10/26/2018 13:24	WG1186927	
tert-Butylbenzene	U		0.00167	0.00538	1	10/26/2018 13:24	WG1186927	
Carbon disulfide	0.00619 J	J	0.00437	0.0135	1	10/26/2018 13:24	WG1186927	
Carbon tetrachloride	U		0.00116	0.00538	1	10/26/2018 13:24	WG1186927	
Chlorobenzene	U		0.000617	0.00269	1	10/26/2018 13:24	WG1186927	
Chlorodibromomethane	U		0.000484	0.00269	1	10/26/2018 13:24	WG1186927	
Chloroethane	U		0.00116	0.00538	1	10/26/2018 13:24	WG1186927	
Chloroform	U		0.000447	0.00269	1	10/26/2018 13:24	WG1186927	
Chloromethane	U		0.00150	0.0135	1	10/26/2018 13:24	WG1186927	
2-Chlorotoluene	U		0.000990	0.00269	1	10/26/2018 13:24	WG1186927	
4-Chlorotoluene	U		0.00122	0.00538	1	10/26/2018 13:24	WG1186927	
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0269	1	10/26/2018 13:24	WG1186927	
1,2-Dibromoethane	U		0.000565	0.00269	1	10/26/2018 13:24	WG1186927	
Dibromomethane	U		0.00108	0.00538	1	10/26/2018 13:24	WG1186927	
1,2-Dichlorobenzene	U		0.00156	0.00538	1	10/26/2018 13:24	WG1186927	
1,3-Dichlorobenzene	U		0.00183	0.00538	1	10/26/2018 13:24	WG1186927	
1,4-Dichlorobenzene	U		0.00212	0.00538	1	10/26/2018 13:24	WG1186927	
Dichlorodifluoromethane	U		0.000880	0.00269	1	10/26/2018 13:24	WG1186927	
1,1-Dichloroethane	U		0.000619	0.00269	1	10/26/2018 13:24	WG1186927	
1,2-Dichloroethane	U		0.000511	0.00269	1	10/26/2018 13:24	WG1186927	
1,1-Dichloroethene	U		0.000538	0.00269	1	10/26/2018 13:24	WG1186927	
cis-1,2-Dichloroethene	0.0964		0.000743	0.00269	1	10/26/2018 13:24	WG1186927	
trans-1,2-Dichloroethene	U		0.00154	0.00538	1	10/26/2018 13:24	WG1186927	
1,2-Dichloropropane	U		0.00137	0.00538	1	10/26/2018 13:24	WG1186927	
1,1-Dichloropropene	U U	J4	0.000753	0.00269	1	10/26/2018 13:24	WG1186927	
1,3-Dichloropropane	U		0.00188	0.00538	1	10/26/2018 13:24	WG1186927	
cis-1,3-Dichloropropene	U		0.000730	0.00269	1	10/26/2018 13:24	WG1186927	
trans-1,3-Dichloropropene	U		0.00165	0.00538	1	10/26/2018 13:24	WG1186927	
trans-1,4-Dichloro-2-butene	U		0.00151	0.00538	1	10/26/2018 13:24	WG1186927	
2,2-Dichloropropane	U		0.000853	0.00269	1	10/26/2018 13:24	WG1186927	
Di-isopropyl ether	U		0.000377	0.00108	1	10/26/2018 13:24	WG1186927	
Ethylbenzene	U		0.000570	0.00269	1	10/26/2018 13:24	WG1186927	
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	10/26/2018 13:24	WG1186927	
2-Hexanone	U		0.0108	0.0269	1	10/26/2018 13:24	WG1186927	
n-Hexane	0.00540		0.00114	0.00538	1	10/26/2018 13:24	WG1186927	
Iodomethane	U		0.00651	0.0135	1	10/26/2018 13:24	WG1186927	JC 11/16/18
Isopropylbenzene	U		0.000929	0.00269	1	10/26/2018 13:24	WG1186927	
p-Isopropyltoluene	U		0.00251	0.00538	1	10/26/2018 13:24	WG1186927	
2-Butanone (MEK)	U		0.0135	0.0269	1	10/26/2018 13:24	WG1186927	
Methylene Chloride	U		0.00715	0.0269	1	10/26/2018 13:24	WG1186927	
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	10/26/2018 13:24	WG1186927	

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000317	0.00108	1	10/26/2018 13:24	WG1186927
Naphthalene	U		0.00336	0.0135	1	10/26/2018 13:24	WG1186927
n-Propylbenzene	U		0.00127	0.00538	1	10/26/2018 13:24	WG1186927
Styrene	U		0.00294	0.0135	1	10/26/2018 13:24	WG1186927
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	10/26/2018 13:24	WG1186927
1,1,2,2-Tetrachloroethane	U		0.000420	0.00269	1	10/26/2018 13:24	WG1186927
1,1,2-Trichlorotrifluoroethane	U		0.000726	0.00269	1	10/26/2018 13:24	WG1186927
Tetrachloroethene	6.24		0.00753	0.0269	10	10/28/2018 14:27	WG1187558
Toluene	0.00166 J	J	0.00135	0.00538	1	10/26/2018 13:24	WG1186927
1,2,3-Trichlorobenzene	U		0.000673	0.00269	1	10/26/2018 13:24	WG1186927
1,2,4-Trichlorobenzene	U		0.00519	0.0135	1	10/26/2018 13:24	WG1186927
1,1,1-Trichloroethane	U		0.000296	0.00269	1	10/26/2018 13:24	WG1186927
1,1,2-Trichloroethane	U		0.000950	0.00269	1	10/26/2018 13:24	WG1186927
Trichloroethene	0.143		0.000430	0.00108	1	10/26/2018 13:24	WG1186927
Trichlorofluoromethane	U		0.000538	0.00269	1	10/26/2018 13:24	WG1186927
1,2,3-Trichloropropane	U		0.00549	0.0135	1	10/26/2018 13:24	WG1186927
1,2,4-Trimethylbenzene	0.00210 J	J	0.00125	0.00538	1	10/26/2018 13:24	WG1186927
1,2,3-Trimethylbenzene	U		0.00124	0.00538	1	10/26/2018 13:24	WG1186927
1,3,5-Trimethylbenzene	U		0.00116	0.00538	1	10/26/2018 13:24	WG1186927
Vinyl acetate	U		0.00379	0.0135	1	10/26/2018 13:24	WG1186927
Vinyl chloride	U		0.000735	0.00269	1	10/26/2018 13:24	WG1186927
Xylenes, Total	U		0.00514	0.00700	1	10/26/2018 13:24	WG1186927
(S) Toluene-d8	*102*			*75.0-131*		*10/26/2018 13:24*	WG1186927
(S) Toluene-d8	*97.8*			*75.0-131*		*10/28/2018 14:27*	WG1187558
(S) Dibromofluoromethane	*109*			*65.0-129*		*10/26/2018 13:24*	WG1186927
(S) Dibromofluoromethane	*94.7*			*65.0-129*		*10/28/2018 14:27*	WG1187558
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*10/26/2018 13:24*	WG1186927
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/28/2018 14:27*	WG1187558

JC 11/16/18

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.9		1	10/26/2018 11:19	WG1186450

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U			0.0144	0.0263	1	10/30/2018 08:48	WG1188097	ok
Acrylonitrile	U	UJ		0.00200	0.0132	1	10/29/2018 14:59	WG1188021	
Benzene	U			0.000421	0.00105	1	10/29/2018 14:59	WG1188021	
Bromobenzene	U			0.00111	0.0132	1	10/29/2018 14:59	WG1188021	
Bromodichloromethane	U			0.000830	0.00263	1	10/29/2018 14:59	WG1188021	
Bromochloromethane	U			0.00119	0.00527	1	10/29/2018 14:59	WG1188021	
Bromoform	U			0.00630	0.0263	1	10/29/2018 14:59	WG1188021	
Bromomethane	U			0.00390	0.0132	1	10/29/2018 14:59	WG1188021	
n-Butylbenzene	U			0.00405	0.0132	1	10/29/2018 14:59	WG1188021	
sec-Butylbenzene	U			0.00267	0.0132	1	10/29/2018 14:59	WG1188021	
tert-Butylbenzene	U			0.00163	0.00527	1	10/29/2018 14:59	WG1188021	
Carbon disulfide	U			0.00428	0.0132	1	10/29/2018 14:59	WG1188021	
Carbon tetrachloride	U			0.00114	0.00527	1	10/29/2018 14:59	WG1188021	
Chlorobenzene	U			0.000604	0.00263	1	10/29/2018 14:59	WG1188021	
Chlorodibromomethane	U			0.000474	0.00263	1	10/29/2018 14:59	WG1188021	
Chloroethane	U	UJ		0.00114	0.00527	1	10/29/2018 14:59	WG1188021	
Chloroform	0.000575	J	J	0.000437	0.00263	1	10/29/2018 14:59	WG1188021	
Chloromethane	U	UJ		0.00146	0.0132	1	10/29/2018 14:59	WG1188021	
2-Chlorotoluene	U			0.000969	0.00263	1	10/29/2018 14:59	WG1188021	
4-Chlorotoluene	U			0.00119	0.00527	1	10/29/2018 14:59	WG1188021	
1,2-Dibromo-3-Chloropropane	U			0.00537	0.0263	1	10/29/2018 14:59	WG1188021	
1,2-Dibromoethane	U			0.000553	0.00263	1	10/29/2018 14:59	WG1188021	
Dibromomethane	U			0.00105	0.00527	1	10/29/2018 14:59	WG1188021	
1,2-Dichlorobenzene	U			0.00153	0.00527	1	10/29/2018 14:59	WG1188021	
1,3-Dichlorobenzene	U			0.00179	0.00527	1	10/29/2018 14:59	WG1188021	
1,4-Dichlorobenzene	U			0.00208	0.00527	1	10/29/2018 14:59	WG1188021	
Dichlorodifluoromethane	U			0.000862	0.00263	1	10/30/2018 10:28	WG1188332	Ok
1,1-Dichloroethane	U	UJ		0.000606	0.00263	1	10/29/2018 14:59	WG1188021	
1,2-Dichloroethane	U			0.000500	0.00263	1	10/29/2018 14:59	WG1188021	
1,1-Dichloroethene	U	UJ		0.000527	0.00263	1	10/29/2018 14:59	WG1188021	
cis-1,2-Dichloroethene	0.143	J		0.000727	0.00263	1	10/29/2018 14:59	WG1188021	
trans-1,2-Dichloroethene	U	UJ		0.00151	0.00527	1	10/29/2018 14:59	WG1188021	
1,2-Dichloropropane	U			0.00134	0.00527	1	10/30/2018 10:28	WG1188332	ok
1,1-Dichloropropene	U	UJ		0.000737	0.00263	1	10/29/2018 14:59	WG1188021	
1,3-Dichloropropane	U			0.00184	0.00527	1	10/29/2018 14:59	WG1188021	
cis-1,3-Dichloropropene	U			0.000714	0.00263	1	10/29/2018 14:59	WG1188021	
trans-1,3-Dichloropropene	U			0.00161	0.00527	1	10/29/2018 14:59	WG1188021	
trans-1,4-Dichloro-2-butene	U			0.00147	0.00527	1	10/29/2018 14:59	WG1188021	
2,2-Dichloropropane	U	U J	J4	0.000835	0.00263	1	10/29/2018 14:59	WG1188021	
Di-isopropyl ether	U	UJ		0.000369	0.00105	1	10/29/2018 14:59	WG1188021	
Ethylbenzene	U			0.000558	0.00263	1	10/29/2018 14:59	WG1188021	
Hexachloro-1,3-butadiene	U			0.0134	0.0263	1	10/29/2018 14:59	WG1188021	
2-Hexanone	U			0.0105	0.0263	1	10/29/2018 14:59	WG1188021	
n-Hexane	U			0.00112	0.00527	1	10/29/2018 14:59	WG1188021	
Iodomethane	U			0.00637	0.0132	1	10/29/2018 14:59	WG1188021	
Isopropylbenzene	U			0.000909	0.00263	1	10/29/2018 14:59	WG1188021	
p-Isopropyltoluene	U			0.00245	0.00527	1	10/29/2018 14:59	WG1188021	
2-Butanone (MEK)	0.0250	U	B J	0.0132	0.0263	1	10/29/2018 14:59	WG1188021	
Methylene Chloride	U	UJ		0.00699	0.0263	1	10/29/2018 14:59	WG1188021	
4-Methyl-2-pentanone (MIBK)	U	UJ		0.0105	0.0263	1	10/29/2018 14:59	WG1188021	

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SAMPLE RESULTS - 03

Collected date/time: 10/19/18 08:35

L1036740

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Methyl tert-butyl ether	U	UJ		0.000311	0.00105	1	10/29/2018 14:59	WG1188021	
Naphthalene	U	↓		0.00329	0.0132	1	10/29/2018 14:59	WG1188021	
n-Propylbenzene	U	↓		0.00124	0.00527	1	10/29/2018 14:59	WG1188021	
Styrene	U	↓		0.00288	0.0132	1	10/29/2018 14:59	WG1188021	
1,1,1,2-Tetrachloroethane	U	↓		0.000527	0.00263	1	10/30/2018 10:28	WG1188332	
1,1,2,2-Tetrachloroethane	U	UJ		0.000411	0.00263	1	10/29/2018 14:59	WG1188021	
1,1,2-Trichlorotrifluoroethane	U			0.000711	0.00263	1	10/30/2018 10:28	WG1188332	OK
Tetrachloroethene	0.0584	J		0.000737	0.00263	1	10/29/2018 14:59	WG1188021	
Toluene	U	UJ		0.00132	0.00527	1	10/29/2018 14:59	WG1188021	
1,2,3-Trichlorobenzene	U	↓		0.000658	0.00263	1	10/29/2018 14:59	WG1188021	
1,2,4-Trichlorobenzene	U	↓		0.00508	0.0132	1	10/29/2018 14:59	WG1188021	
1,1,1-Trichloroethane	U	↓		0.000290	0.00263	1	10/29/2018 14:59	WG1188021	
1,1,2-Trichloroethane	U	UJ		0.000930	0.00263	1	10/29/2018 14:59	WG1188021	
Trichloroethene	0.000679	J	J	0.000421	0.00105	1	10/30/2018 10:28	WG1188332	OK
Trichlorofluoromethane	U	UJ		0.000527	0.00263	1	10/29/2018 14:59	WG1188021	
1,2,3-Trichloropropane	U	UJ		0.00537	0.0132	1	10/29/2018 14:59	WG1188021	
1,2,4-Trimethylbenzene	0.00195	J	J	0.00122	0.00527	1	10/29/2018 14:59	WG1188021	
1,2,3-Trimethylbenzene	0.00126	J	J	0.00121	0.00527	1	10/29/2018 14:59	WG1188021	
1,3,5-Trimethylbenzene	U	UJ		0.00114	0.00527	1	10/29/2018 14:59	WG1188021	
Vinyl acetate	U	UJ		0.00371	0.0132	1	10/29/2018 14:59	WG1188021	
Vinyl chloride	0.0326	J		0.000719	0.00263	1	10/29/2018 14:59	WG1188021	
Xylenes, Total	U	UJ		0.00504	0.00685	1	10/29/2018 14:59	WG1188021	
(S) Toluene-d8	*55.8*		J2		*75.0-131*		*10/29/2018 14:59*	WG1188021	LOW
(S) Toluene-d8	*114*				*75.0-131*		*10/30/2018 08:48*	WG1188097	
(S) Toluene-d8	*98.7*				*75.0-131*		*10/30/2018 10:28*	WG1188332	
(S) Dibromofluoromethane	*98.7*				*65.0-129*		*10/29/2018 14:59*	WG1188021	
(S) Dibromofluoromethane	*90.2*				*65.0-129*		*10/30/2018 08:48*	WG1188097	
(S) Dibromofluoromethane	*118*				*65.0-129*		*10/30/2018 10:28*	WG1188332	
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*10/29/2018 14:59*	WG1188021	
(S) 4-Bromofluorobenzene	*107*				*67.0-138*		*10/30/2018 08:48*	WG1188097	
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*10/30/2018 10:28*	WG1188332	

JC 11/16/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.5		1	10/24/2018 09:40	WG1184862

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.150	0.273	10	10/24/2018 00:26	WG1185221
Acrylonitrile	U		0.00208	0.0137	1	10/22/2018 17:32	WG1184455
Benzene	U		0.000437	0.00109	1	10/22/2018 17:32	WG1184455
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 17:32	WG1184455
Bromodichloromethane	U		0.000861	0.00273	1	10/22/2018 17:32	WG1184455
Bromochloromethane	U		0.00124	0.00547	1	10/22/2018 17:32	WG1184455
Bromoform	U		0.00654	0.0273	1	10/22/2018 17:32	WG1184455
Bromomethane	U		0.00404	0.0137	1	10/22/2018 17:32	WG1184455
n-Butylbenzene	U		0.00420	0.0137	1	10/22/2018 17:32	WG1184455
sec-Butylbenzene	U		0.00277	0.0137	1	10/22/2018 17:32	WG1184455
tert-Butylbenzene	U		0.00169	0.00547	1	10/22/2018 17:32	WG1184455
Carbon disulfide	U		0.00444	0.0137	1	10/22/2018 17:32	WG1184455
Carbon tetrachloride	U		0.00118	0.00547	1	10/22/2018 17:32	WG1184455
Chlorobenzene	U		0.000626	0.00273	1	10/22/2018 17:32	WG1184455
Chlorodibromomethane	U		0.000492	0.00273	1	10/22/2018 17:32	WG1184455
Chloroethane	U		0.00118	0.00547	1	10/22/2018 17:32	WG1184455
Chloroform	U		0.000454	0.00273	1	10/22/2018 17:32	WG1184455
Chloromethane	U		0.00152	0.0137	1	10/22/2018 17:32	WG1184455
2-Chlorotoluene	U		0.00101	0.00273	1	10/22/2018 17:32	WG1184455
4-Chlorotoluene	U		0.00124	0.00547	1	10/22/2018 17:32	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	10/22/2018 17:32	WG1184455
1,2-Dibromoethane	U		0.000574	0.00273	1	10/22/2018 17:32	WG1184455
Dibromomethane	U		0.00109	0.00547	1	10/22/2018 17:32	WG1184455
1,2-Dichlorobenzene	U		0.00158	0.00547	1	10/22/2018 17:32	WG1184455
1,3-Dichlorobenzene	U		0.00186	0.00547	1	10/22/2018 17:32	WG1184455
1,4-Dichlorobenzene	U		0.00215	0.00547	1	10/22/2018 17:32	WG1184455
Dichlorodifluoromethane	U		0.00894	0.0273	10	10/24/2018 00:26	WG1185221
1,1-Dichloroethane	U		0.000628	0.00273	1	10/22/2018 17:32	WG1184455
1,2-Dichloroethane	U		0.000519	0.00273	1	10/22/2018 17:32	WG1184455
1,1-Dichloroethene	0.00253 J	J	0.000547	0.00273	1	10/22/2018 17:32	WG1184455
cis-1,2-Dichloroethene	1.48		0.00754	0.0273	10	10/24/2018 00:26	WG1185221
trans-1,2-Dichloroethene	0.0323		0.00156	0.00547	1	10/22/2018 17:32	WG1184455
1,2-Dichloropropane	U		0.00139	0.00547	1	10/22/2018 17:32	WG1184455
1,1-Dichloropropene	U		0.000765	0.00273	1	10/22/2018 17:32	WG1184455
1,3-Dichloropropane	U		0.00191	0.00547	1	10/22/2018 17:32	WG1184455
cis-1,3-Dichloropropene	U		0.000741	0.00273	1	10/22/2018 17:32	WG1184455
trans-1,3-Dichloropropene	U U	J4	0.00167	0.00547	1	10/22/2018 17:32	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	10/22/2018 17:32	WG1184455
2,2-Dichloropropane	U		0.000867	0.00273	1	10/22/2018 17:32	WG1184455
Di-isopropyl ether	U		0.000383	0.00109	1	10/22/2018 17:32	WG1184455
Ethylbenzene	U		0.000579	0.00273	1	10/22/2018 17:32	WG1184455
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	10/22/2018 17:32	WG1184455
2-Hexanone	U		0.0109	0.0273	1	10/22/2018 17:32	WG1184455
n-Hexane	U		0.00116	0.00547	1	10/22/2018 17:32	WG1184455
Iodomethane	U		0.00661	0.0137	1	10/22/2018 17:32	WG1184455
Isopropylbenzene	U		0.000943	0.00273	1	10/22/2018 17:32	WG1184455
p-Isopropyltoluene	U		0.00255	0.00547	1	10/22/2018 17:32	WG1184455
2-Butanone (MEK)	0.0413		0.0137	0.0273	1	10/22/2018 17:32	WG1184455 JC 11/14/18
Methylene Chloride	U		0.00726	0.0273	1	10/22/2018 17:32	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/22/2018 17:32	WG1184455

IW-58A-38
Collected date/time: 10/17/18 15:10

SAMPLE RESULTS - 01

L1036161

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	10/22/2018 17:32	WG1184455
Naphthalene	U		0.00341	0.0137	1	10/22/2018 17:32	WG1184455
n-Propylbenzene	U		0.00129	0.00547	1	10/22/2018 17:32	WG1184455
Styrene	U		0.00298	0.0137	1	10/22/2018 17:32	WG1184455
1,1,1,2-Tetrachloroethane	U	U J4	0.000547	0.00273	1	10/22/2018 17:32	WG1184455
1,1,2,2-Tetrachloroethane	U		0.00426	0.0273	10	10/24/2018 00:26	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000738	0.00273	1	10/22/2018 17:32	WG1184455
Tetrachloroethene	2.67	J J0	0.00765	0.0273	10	10/24/2018 00:26	WG1185221
Toluene	0.00206	J J	0.00137	0.00547	1	10/22/2018 17:32	WG1184455
1,2,3-Trichlorobenzene	U		0.00683	0.0273	10	10/24/2018 00:26	WG1185221
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	10/22/2018 17:32	WG1184455
1,1,1-Trichloroethane	U		0.000301	0.00273	1	10/22/2018 17:32	WG1184455
1,1,2-Trichloroethane	U		0.000965	0.00273	1	10/22/2018 17:32	WG1184455
Trichloroethene	0.279		0.000437	0.00109	1	10/22/2018 17:32	WG1184455
Trichlorofluoromethane	U		0.000547	0.00273	1	10/22/2018 17:32	WG1184455
1,2,3-Trichloropropane	U		0.00557	0.0137	1	10/22/2018 17:32	WG1184455
1,2,4-Trimethylbenzene	U		0.00127	0.00547	1	10/22/2018 17:32	WG1184455
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	10/22/2018 17:32	WG1184455
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	10/22/2018 17:32	WG1184455
Vinyl acetate	U		0.00385	0.0137	1	10/22/2018 17:32	WG1184455
Vinyl chloride	0.0128		0.000747	0.00273	1	10/22/2018 17:32	WG1184455
Xylenes, Total	U		0.00522	0.00710	1	10/22/2018 17:32	WG1184455
(S) Toluene-d8	*105*			*75.0-131*		*10/22/2018 17:32*	WG1184455
(S) Toluene-d8	*97.2*			*75.0-131*		*10/24/2018 00:26*	WG1185221
(S) Dibromofluoromethane	*90.3*			*65.0-129*		*10/22/2018 17:32*	WG1184455
(S) Dibromofluoromethane	*118*			*65.0-129*		*10/24/2018 00:26*	WG1185221
(S) 4-Bromofluorobenzene	*92.0*			*67.0-138*		*10/22/2018 17:32*	WG1184455
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*10/24/2018 00:26*	WG1185221

JC 11/14/18

Sample Narrative:

L1036161-01 WG1185221, WG1184455: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036161-01 WG1185221, WG1184455: Not all compounds reportable at lower dilution.

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.8		1	10/24/2018 11:13	WG1185188

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.154	0.281	10	10/24/2018 00:46	WG1185221
Acrylonitrile	U		0.00214	0.0141	1	10/22/2018 17:50	WG1184455
Benzene	U		0.000450	0.00113	1	10/22/2018 17:50	WG1184455
Bromobenzene	U		0.00118	0.0141	1	10/22/2018 17:50	WG1184455
Bromodichloromethane	U		0.000887	0.00281	1	10/22/2018 17:50	WG1184455
Bromochloromethane	U		0.00127	0.00563	1	10/22/2018 17:50	WG1184455
Bromoform	U		0.00673	0.0281	1	10/22/2018 17:50	WG1184455
Bromomethane	U		0.00417	0.0141	1	10/22/2018 17:50	WG1184455
n-Butylbenzene	U		0.00432	0.0141	1	10/22/2018 17:50	WG1184455
sec-Butylbenzene	U		0.00285	0.0141	1	10/22/2018 17:50	WG1184455
tert-Butylbenzene	U		0.00175	0.00563	1	10/22/2018 17:50	WG1184455
Carbon disulfide	U		0.00457	0.0141	1	10/22/2018 17:50	WG1184455
Carbon tetrachloride	U		0.00122	0.00563	1	10/22/2018 17:50	WG1184455
Chlorobenzene	U		0.000645	0.00281	1	10/22/2018 17:50	WG1184455
Chlorodibromomethane	U		0.000507	0.00281	1	10/22/2018 17:50	WG1184455
Chloroethane	U		0.00122	0.00563	1	10/22/2018 17:50	WG1184455
Chloroform	U		0.000467	0.00281	1	10/22/2018 17:50	WG1184455
Chloromethane	U		0.00156	0.0141	1	10/22/2018 17:50	WG1184455
2-Chlorotoluene	U		0.00104	0.00281	1	10/22/2018 17:50	WG1184455
4-Chlorotoluene	U		0.00127	0.00563	1	10/22/2018 17:50	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00574	0.0281	1	10/22/2018 17:50	WG1184455
1,2-Dibromoethane	U		0.000591	0.00281	1	10/22/2018 17:50	WG1184455
Dibromomethane	U		0.00113	0.00563	1	10/22/2018 17:50	WG1184455
1,2-Dichlorobenzene	U		0.00163	0.00563	1	10/22/2018 17:50	WG1184455
1,3-Dichlorobenzene	U		0.00191	0.00563	1	10/22/2018 17:50	WG1184455
1,4-Dichlorobenzene	U		0.00222	0.00563	1	10/22/2018 17:50	WG1184455
Dichlorodifluoromethane	U		0.00921	0.0281	10	10/24/2018 00:46	WG1185221
1,1-Dichloroethane	U		0.000647	0.00281	1	10/22/2018 17:50	WG1184455
1,2-Dichloroethane	U		0.000535	0.00281	1	10/22/2018 17:50	WG1184455
1,1-Dichloroethene	0.00373		0.000563	0.00281	1	10/22/2018 17:50	WG1184455
cis-1,2-Dichloroethene	1.77		0.00777	0.0281	10	10/24/2018 00:46	WG1185221
trans-1,2-Dichloroethene	0.0456		0.00161	0.00563	1	10/22/2018 17:50	WG1184455
1,2-Dichloropropane	U		0.00143	0.00563	1	10/22/2018 17:50	WG1184455
1,1-Dichloropropene	U		0.000788	0.00281	1	10/22/2018 17:50	WG1184455
1,3-Dichloropropane	U		0.00197	0.00563	1	10/22/2018 17:50	WG1184455
cis-1,3-Dichloropropene	U		0.000763	0.00281	1	10/22/2018 17:50	WG1184455
trans-1,3-Dichloropropene	U	U J4	0.00172	0.00563	1	10/22/2018 17:50	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00158	0.00563	1	10/22/2018 17:50	WG1184455
2,2-Dichloropropane	U		0.000893	0.00281	1	10/22/2018 17:50	WG1184455
Di-isopropyl ether	U		0.000394	0.00113	1	10/22/2018 17:50	WG1184455
Ethylbenzene	U		0.000597	0.00281	1	10/22/2018 17:50	WG1184455
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 17:50	WG1184455
2-Hexanone	U		0.0113	0.0281	1	10/22/2018 17:50	WG1184455
n-Hexane	U		0.00119	0.00563	1	10/22/2018 17:50	WG1184455
Iodomethane	U		0.00681	0.0141	1	10/22/2018 17:50	WG1184455
Isopropylbenzene	U		0.000972	0.00281	1	10/22/2018 17:50	WG1184455
p-Isopropyltoluene	U		0.00262	0.00563	1	10/22/2018 17:50	WG1184455
2-Butanone (MEK)	0.0306		0.0141	0.0281	1	10/22/2018 17:50	WG1184455
Methylene Chloride	U		0.00748	0.0281	1	10/22/2018 17:50	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0281	1	10/22/2018 17:50	WG1184455

JC 11/14/18

B-929-38

Collected date/time: 10/17/18 15:20

SAMPLE RESULTS - 02

L1036161

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00113	1	10/22/2018 17:50	WG1184455
Naphthalene	U		0.00351	0.0141	1	10/22/2018 17:50	WG1184455
n-Propylbenzene	U		0.00133	0.00563	1	10/22/2018 17:50	WG1184455
Styrene	U		0.00307	0.0141	1	10/22/2018 17:50	WG1184455
1,1,1,2-Tetrachloroethane	U U	J4	0.000563	0.00281	1	10/22/2018 17:50	WG1184455
1,1,2,2-Tetrachloroethane	U		0.00439	0.0281	10	10/24/2018 00:46	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000760	0.00281	1	10/22/2018 17:50	WG1184455
Tetrachloroethene	2.31 J	J0	0.00788	0.0281	10	10/24/2018 00:46	WG1185221
Toluene	0.00250 J	J	0.00141	0.00563	1	10/22/2018 17:50	WG1184455
1,2,3-Trichlorobenzene	U		0.00704	0.0281	10	10/24/2018 00:46	WG1185221
1,2,4-Trichlorobenzene	U		0.00543	0.0141	1	10/22/2018 17:50	WG1184455
1,1,1-Trichloroethane	U		0.000310	0.00281	1	10/22/2018 17:50	WG1184455
1,1,2-Trichloroethane	U		0.000994	0.00281	1	10/22/2018 17:50	WG1184455
Trichloroethene	0.201		0.000450	0.00113	1	10/22/2018 17:50	WG1184455
Trichlorofluoromethane	U		0.000563	0.00281	1	10/22/2018 17:50	WG1184455
1,2,3-Trichloropropane	U		0.00574	0.0141	1	10/22/2018 17:50	WG1184455
1,2,4-Trimethylbenzene	0.00149 J	J	0.00131	0.00563	1	10/22/2018 17:50	WG1184455
1,2,3-Trimethylbenzene	U		0.00129	0.00563	1	10/22/2018 17:50	WG1184455
1,3,5-Trimethylbenzene	U		0.00122	0.00563	1	10/22/2018 17:50	WG1184455
Vinyl acetate	U		0.00396	0.0141	1	10/22/2018 17:50	WG1184455
Vinyl chloride	0.0167		0.000769	0.00281	1	10/22/2018 17:50	WG1184455
Xylenes, Total	U		0.00538	0.00732	1	10/22/2018 17:50	WG1184455
(S) Toluene-d8	*105*			*75.0-131*		*10/22/2018 17:50*	WG1184455
(S) Toluene-d8	*95.7*			*75.0-131*		*10/24/2018 00:46*	WG1185221
(S) Dibromofluoromethane	*90.1*			*65.0-129*		*10/22/2018 17:50*	WG1184455
(S) Dibromofluoromethane	*120*			*65.0-129*		*10/24/2018 00:46*	WG1185221
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*		*10/22/2018 17:50*	WG1184455
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*10/24/2018 00:46*	WG1185221

Sample Narrative:

L1036161-02 WG1185221, WG1184455: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036161-02 WG1185221, WG1184455: Not all compounds reportable at lower dilution.

JC 11/14/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.8		1	10/24/2018 14:00	WG1185671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0639	0.117	4	10/26/2018 05:55	WG1186559
Acrylonitrile	U		0.00886	0.0583	4	10/26/2018 05:55	WG1186559
Benzene	0.00321 J	J	0.00186	0.00466	4	10/26/2018 05:55	WG1186559
Bromobenzene	U		0.00489	0.0583	4	10/26/2018 05:55	WG1186559
Bromodichloromethane	U		0.00367	0.0117	4	10/26/2018 05:55	WG1186559
Bromochloromethane	U		0.00527	0.0233	4	10/26/2018 05:55	WG1186559
Bromoform	U		0.0278	0.117	4	10/26/2018 05:55	WG1186559
Bromomethane	U		0.0172	0.0583	4	10/26/2018 05:55	WG1186559
n-Butylbenzene	U		0.0179	0.0583	4	10/26/2018 05:55	WG1186559
sec-Butylbenzene	U		0.0118	0.0583	4	10/26/2018 05:55	WG1186559
tert-Butylbenzene	U		0.00722	0.0233	4	10/26/2018 05:55	WG1186559
Carbon disulfide	U		0.0189	0.0583	4	10/26/2018 05:55	WG1186559
Carbon tetrachloride	U		0.00503	0.0233	4	10/26/2018 05:55	WG1186559
Chlorobenzene	U		0.00267	0.0117	4	10/26/2018 05:55	WG1186559
Chlorodibromomethane	U		0.00210	0.0117	4	10/26/2018 05:55	WG1186559
Chloroethane	U		0.00503	0.0233	4	10/26/2018 05:55	WG1186559
Chloroform	0.00193 J	J	0.00193	0.0117	4	10/26/2018 05:55	WG1186559
Chloromethane	U		0.00648	0.0583	4	10/26/2018 05:55	WG1186559
2-Chlorotoluene	U		0.00429	0.0117	4	10/26/2018 05:55	WG1186559
4-Chlorotoluene	U		0.00527	0.0233	4	10/26/2018 05:55	WG1186559
1,2-Dibromo-3-Chloropropane	U		0.0238	0.117	4	10/26/2018 05:55	WG1186559
1,2-Dibromoethane	U		0.00245	0.0117	4	10/26/2018 05:55	WG1186559
Dibromomethane	U		0.00466	0.0233	4	10/26/2018 05:55	WG1186559
1,2-Dichlorobenzene	U		0.00676	0.0233	4	10/26/2018 05:55	WG1186559
1,3-Dichlorobenzene	U		0.00792	0.0233	4	10/26/2018 05:55	WG1186559
1,4-Dichlorobenzene	U		0.00918	0.0233	4	10/26/2018 05:55	WG1186559
Dichlorodifluoromethane	U		0.00381	0.0117	4	10/26/2018 05:55	WG1186559
1,1-Dichloroethane	U		0.00268	0.0117	4	10/26/2018 05:55	WG1186559
1,2-Dichloroethane	U		0.00221	0.0117	4	10/26/2018 05:55	WG1186559
1,1-Dichloroethene	U		0.00233	0.0117	4	10/26/2018 05:55	WG1186559
cis-1,2-Dichloroethene	0.336		0.00322	0.0117	4	10/26/2018 05:55	WG1186559
trans-1,2-Dichloroethene	U		0.00666	0.0233	4	10/26/2018 05:55	WG1186559
1,2-Dichloropropane	U		0.00592	0.0233	4	10/26/2018 05:55	WG1186559
1,1-Dichloropropene	U		0.00326	0.0117	4	10/26/2018 05:55	WG1186559
1,3-Dichloropropane	U		0.00816	0.0233	4	10/26/2018 05:55	WG1186559
cis-1,3-Dichloropropene	U		0.00316	0.0117	4	10/26/2018 05:55	WG1186559
trans-1,3-Dichloropropene	U		0.00713	0.0233	4	10/26/2018 05:55	WG1186559
trans-1,4-Dichloro-2-butene	U		0.00653	0.0233	4	10/26/2018 05:55	WG1186559
2,2-Dichloropropane	U		0.00369	0.0117	4	10/26/2018 05:55	WG1186559
Di-isopropyl ether	U		0.00163	0.00466	4	10/26/2018 05:55	WG1186559
Ethylbenzene	0.00256 J	J	0.00247	0.0117	4	10/26/2018 05:55	WG1186559
Hexachloro-1,3-butadiene	U		0.0592	0.117	4	10/26/2018 05:55	WG1186559
2-Hexanone	U		0.0466	0.117	4	10/26/2018 05:55	WG1186559
n-Hexane	U		0.00494	0.0233	4	10/26/2018 05:55	WG1186559
Iodomethane	U		0.0282	0.0583	4	10/26/2018 05:55	WG1186559
Isopropylbenzene	U		0.00402	0.0117	4	10/26/2018 05:55	WG1186559
p-Isopropyltoluene	U		0.0109	0.0233	4	10/26/2018 05:55	WG1186559
2-Butanone (MEK)	U		0.0583	0.117	4	10/26/2018 05:55	WG1186559
Methylene Chloride	U		0.0310	0.117	4	10/26/2018 05:55	WG1186559
4-Methyl-2-pentanone (MIBK)	U		0.0466	0.117	4	10/26/2018 05:55	WG1186559

JC 11/15/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00137	0.00466	4	10/26/2018 05:55	WG1186559
Naphthalene	U		0.0146	0.0583	4	10/26/2018 05:55	WG1186559
n-Propylbenzene	U		0.00550	0.0233	4	10/26/2018 05:55	WG1186559
Styrene	U		0.0127	0.0583	4	10/26/2018 05:55	WG1186559
1,1,1,2-Tetrachloroethane	U		0.00233	0.0117	4	10/26/2018 05:55	WG1186559
1,1,2,2-Tetrachloroethane	U		0.00182	0.0117	4	10/26/2018 05:55	WG1186559
1,1,2-Trichlorotrifluoroethane	U		0.00315	0.0117	4	10/26/2018 05:55	WG1186559
Tetrachloroethene	1.35		0.00326	0.0117	4	10/26/2018 05:55	WG1186559
Toluene	0.00897 J	J	0.00583	0.0233	4	10/26/2018 05:55	WG1186559
1,2,3-Trichlorobenzene	U		0.00291	0.0117	4	10/26/2018 05:55	WG1186559
1,2,4-Trichlorobenzene	U		0.0225	0.0583	4	10/26/2018 05:55	WG1186559
1,1,1-Trichloroethane	U		0.00128	0.0117	4	10/26/2018 05:55	WG1186559
1,1,2-Trichloroethane	U		0.00411	0.0117	4	10/26/2018 05:55	WG1186559
Trichloroethene	0.336		0.00186	0.00466	4	10/26/2018 05:55	WG1186559
Trichlorofluoromethane	U		0.00233	0.0117	4	10/26/2018 05:55	WG1186559
1,2,3-Trichloropropane	U		0.0238	0.0583	4	10/26/2018 05:55	WG1186559
1,2,4-Trimethylbenzene	U		0.00541	0.0233	4	10/26/2018 05:55	WG1186559
1,2,3-Trimethylbenzene	U		0.00536	0.0233	4	10/26/2018 05:55	WG1186559
1,3,5-Trimethylbenzene	U		0.00503	0.0233	4	10/26/2018 05:55	WG1186559
Vinyl acetate	U		0.0164	0.0583	4	10/26/2018 05:55	WG1186559
Vinyl chloride	U		0.00318	0.0117	4	10/26/2018 05:55	WG1186559
Xylenes, Total	U		0.0223	0.0303	4	10/26/2018 05:55	WG1186559
(S) Toluene-d8	*104*			*75.0-131*		*10/26/2018 05:55*	WG1186559
(S) Dibromofluoromethane	*95.5*			*65.0-129*		*10/26/2018 05:55*	WG1186559
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*10/26/2018 05:55*	WG1186559

Sample Narrative:

L1036481-01 WG1186559: Diluted due to high levels of target analytes.

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.3		1	10/24/2018 14:15	WG1185771

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0162	0.0296	1	10/26/2018 00:50	WG1186559
Acrylonitrile	U		0.00225	0.0148	1	10/26/2018 00:50	WG1186559
Benzene	U		0.000474	0.00119	1	10/26/2018 00:50	WG1186559
Bromobenzene	U		0.00124	0.0148	1	10/26/2018 00:50	WG1186559
Bromodichloromethane	U		0.000934	0.00296	1	10/26/2018 00:50	WG1186559
Bromochloromethane	U		0.00134	0.00593	1	10/26/2018 00:50	WG1186559
Bromoform	U		0.00709	0.0296	1	10/26/2018 00:50	WG1186559
Bromomethane	U		0.00439	0.0148	1	10/26/2018 00:50	WG1186559
n-Butylbenzene	U		0.00455	0.0148	1	10/26/2018 00:50	WG1186559
sec-Butylbenzene	U		0.00300	0.0148	1	10/26/2018 00:50	WG1186559
tert-Butylbenzene	U		0.00184	0.00593	1	10/26/2018 00:50	WG1186559
Carbon disulfide	U		0.00481	0.0148	1	10/26/2018 00:50	WG1186559
Carbon tetrachloride	U		0.00128	0.00593	1	10/26/2018 00:50	WG1186559
Chlorobenzene	U		0.000679	0.00296	1	10/26/2018 00:50	WG1186559
Chlorodibromomethane	U		0.000534	0.00296	1	10/26/2018 00:50	WG1186559
Chloroethane	U		0.00128	0.00593	1	10/26/2018 00:50	WG1186559
Chloroform	U		0.000492	0.00296	1	10/26/2018 00:50	WG1186559
Chloromethane	U		0.00165	0.0148	1	10/26/2018 00:50	WG1186559
2-Chlorotoluene	U		0.00109	0.00296	1	10/26/2018 00:50	WG1186559
4-Chlorotoluene	U		0.00134	0.00593	1	10/26/2018 00:50	WG1186559
1,2-Dibromo-3-Chloropropane	U		0.00605	0.0296	1	10/26/2018 00:50	WG1186559
1,2-Dibromoethane	U		0.000622	0.00296	1	10/26/2018 00:50	WG1186559
Dibromomethane	U		0.00119	0.00593	1	10/26/2018 00:50	WG1186559
1,2-Dichlorobenzene	U		0.00172	0.00593	1	10/26/2018 00:50	WG1186559
1,3-Dichlorobenzene	U		0.00202	0.00593	1	10/26/2018 00:50	WG1186559
1,4-Dichlorobenzene	U		0.00234	0.00593	1	10/26/2018 00:50	WG1186559
Dichlorodifluoromethane	U		0.000970	0.00296	1	10/26/2018 00:50	WG1186559
1,1-Dichloroethane	U		0.000682	0.00296	1	10/26/2018 00:50	WG1186559
1,2-Dichloroethane	U		0.000563	0.00296	1	10/26/2018 00:50	WG1186559
1,1-Dichloroethene	0.00433		0.000593	0.00296	1	10/26/2018 00:50	WG1186559
cis-1,2-Dichloroethene	0.0191		0.000818	0.00296	1	10/26/2018 00:50	WG1186559
trans-1,2-Dichloroethene	U		0.00170	0.00593	1	10/26/2018 00:50	WG1186559
1,2-Dichloropropane	U		0.00151	0.00593	1	10/26/2018 00:50	WG1186559
1,1-Dichloropropene	U		0.000830	0.00296	1	10/26/2018 00:50	WG1186559
1,3-Dichloropropane	U		0.00207	0.00593	1	10/26/2018 00:50	WG1186559
cis-1,3-Dichloropropene	U		0.000804	0.00296	1	10/26/2018 00:50	WG1186559
trans-1,3-Dichloropropene	U		0.00181	0.00593	1	10/26/2018 00:50	WG1186559
trans-1,4-Dichloro-2-butene	U		0.00166	0.00593	1	10/26/2018 00:50	WG1186559
2,2-Dichloropropane	U		0.000940	0.00296	1	10/26/2018 00:50	WG1186559
Di-isopropyl ether	U		0.000415	0.00119	1	10/26/2018 00:50	WG1186559
Ethylbenzene	U		0.000628	0.00296	1	10/26/2018 00:50	WG1186559
Hexachloro-1,3-butadiene	U		0.0151	0.0296	1	10/26/2018 00:50	WG1186559
2-Hexanone	U		0.0119	0.0296	1	10/26/2018 00:50	WG1186559
n-Hexane	U		0.00126	0.00593	1	10/26/2018 00:50	WG1186559
Iodomethane	U		0.00717	0.0148	1	10/26/2018 00:50	WG1186559
Isopropylbenzene	U		0.00102	0.00296	1	10/26/2018 00:50	WG1186559
p-Isopropyltoluene	U		0.00276	0.00593	1	10/26/2018 00:50	WG1186559
2-Butanone (MEK)	U		0.0148	0.0296	1	10/26/2018 00:50	WG1186559
Methylene Chloride	U		0.00787	0.0296	1	10/26/2018 00:50	WG1186559
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0296	1	10/26/2018 00:50	WG1186559

JC 11/15/18

IW-16D-90

Collected date/time: 10/18/18 12:13

SAMPLE RESULTS - 02

L1036481

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000350	0.00119	1	10/26/2018 00:50	WG1186559
Naphthalene	U		0.00370	0.0148	1	10/26/2018 00:50	WG1186559
n-Propylbenzene	U		0.00140	0.00593	1	10/26/2018 00:50	WG1186559
Styrene	U		0.00324	0.0148	1	10/26/2018 00:50	WG1186559
1,1,1,2-Tetrachloroethane	U		0.000593	0.00296	1	10/26/2018 00:50	WG1186559
1,1,2,2-Tetrachloroethane	U		0.000462	0.00296	1	10/26/2018 00:50	WG1186559
1,1,2-Trichlorotrifluoroethane	U		0.000800	0.00296	1	10/26/2018 00:50	WG1186559
Tetrachloroethene	0.0916		0.000830	0.00296	1	10/26/2018 00:50	WG1186559
Toluene	U		0.00148	0.00593	1	10/26/2018 00:50	WG1186559
1,2,3-Trichlorobenzene	U		0.000741	0.00296	1	10/26/2018 00:50	WG1186559
1,2,4-Trichlorobenzene	U		0.00571	0.0148	1	10/26/2018 00:50	WG1186559
1,1,1-Trichloroethane	U		0.000326	0.00296	1	10/26/2018 00:50	WG1186559
1,1,2-Trichloroethane	U		0.00105	0.00296	1	10/26/2018 00:50	WG1186559
Trichloroethene	0.140		0.000474	0.00119	1	10/26/2018 00:50	WG1186559
Trichlorofluoromethane	U		0.000593	0.00296	1	10/26/2018 00:50	WG1186559
1,2,3-Trichloropropane	U		0.00605	0.0148	1	10/26/2018 00:50	WG1186559
1,2,4-Trimethylbenzene	U		0.00138	0.00593	1	10/26/2018 00:50	WG1186559
1,2,3-Trimethylbenzene	U		0.00136	0.00593	1	10/26/2018 00:50	WG1186559
1,3,5-Trimethylbenzene	U		0.00128	0.00593	1	10/26/2018 00:50	WG1186559
Vinyl acetate	U		0.00417	0.0148	1	10/26/2018 00:50	WG1186559
Vinyl chloride	U		0.000810	0.00296	1	10/26/2018 00:50	WG1186559
Xylenes, Total	U		0.00567	0.00771	1	10/26/2018 00:50	WG1186559
(S) Toluene-d8	*105*			*75.0-131*		*10/26/2018 00:50*	WG1186559
(S) Dibromofluoromethane	*94.7*			*65.0-129*		*10/26/2018 00:50*	WG1186559
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*10/26/2018 00:50*	WG1186559

JC 11/15/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.6		1	10/24/2018 14:15	WG1185771

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0663	0.121	4	10/26/2018 06:14	WG1186559
Acrylonitrile	U		0.00920	0.0605	4	10/26/2018 06:14	WG1186559
Benzene	U		0.00194	0.00484	4	10/26/2018 06:14	WG1186559
Bromobenzene	U		0.00509	0.0605	4	10/26/2018 06:14	WG1186559
Bromodichloromethane	U		0.00381	0.0121	4	10/26/2018 06:14	WG1186559
Bromochloromethane	U		0.00547	0.0242	4	10/26/2018 06:14	WG1186559
Bromoform	U		0.0289	0.121	4	10/26/2018 06:14	WG1186559
Bromomethane	U		0.0179	0.0605	4	10/26/2018 06:14	WG1186559
n-Butylbenzene	U		0.0186	0.0605	4	10/26/2018 06:14	WG1186559
sec-Butylbenzene	U		0.0122	0.0605	4	10/26/2018 06:14	WG1186559
tert-Butylbenzene	U		0.00751	0.0242	4	10/26/2018 06:14	WG1186559
Carbon disulfide	U		0.0196	0.0605	4	10/26/2018 06:14	WG1186559
Carbon tetrachloride	U		0.00523	0.0242	4	10/26/2018 06:14	WG1186559
Chlorobenzene	U		0.00277	0.0121	4	10/26/2018 06:14	WG1186559
Chlorodibromomethane	U		0.00218	0.0121	4	10/26/2018 06:14	WG1186559
Chloroethane	U		0.00523	0.0242	4	10/26/2018 06:14	WG1186559
Chloroform	U		0.00201	0.0121	4	10/26/2018 06:14	WG1186559
Chloromethane	U		0.00673	0.0605	4	10/26/2018 06:14	WG1186559
2-Chlorotoluene	U		0.00446	0.0121	4	10/26/2018 06:14	WG1186559
4-Chlorotoluene	U		0.00547	0.0242	4	10/26/2018 06:14	WG1186559
1,2-Dibromo-3-Chloropropane	U		0.0247	0.121	4	10/26/2018 06:14	WG1186559
1,2-Dibromoethane	U		0.00254	0.0121	4	10/26/2018 06:14	WG1186559
Dibromomethane	U		0.00484	0.0242	4	10/26/2018 06:14	WG1186559
1,2-Dichlorobenzene	U		0.00702	0.0242	4	10/26/2018 06:14	WG1186559
1,3-Dichlorobenzene	U		0.00823	0.0242	4	10/26/2018 06:14	WG1186559
1,4-Dichlorobenzene	U		0.00954	0.0242	4	10/26/2018 06:14	WG1186559
Dichlorodifluoromethane	U		0.00396	0.0121	4	10/26/2018 06:14	WG1186559
1,1-Dichloroethane	U		0.00278	0.0121	4	10/26/2018 06:14	WG1186559
1,2-Dichloroethane	U		0.00230	0.0121	4	10/26/2018 06:14	WG1186559
1,1-Dichloroethene	U		0.00242	0.0121	4	10/26/2018 06:14	WG1186559
cis-1,2-Dichloroethene	0.0238		0.00334	0.0121	4	10/26/2018 06:14	WG1186559
trans-1,2-Dichloroethene	U		0.00693	0.0242	4	10/26/2018 06:14	WG1186559
1,2-Dichloropropane	U		0.00615	0.0242	4	10/26/2018 06:14	WG1186559
1,1-Dichloropropene	U		0.00339	0.0121	4	10/26/2018 06:14	WG1186559
1,3-Dichloropropane	U		0.00848	0.0242	4	10/26/2018 06:14	WG1186559
cis-1,3-Dichloropropene	U		0.00328	0.0121	4	10/26/2018 06:14	WG1186559
trans-1,3-Dichloropropene	U		0.00741	0.0242	4	10/26/2018 06:14	WG1186559
trans-1,4-Dichloro-2-butene	U		0.00678	0.0242	4	10/26/2018 06:14	WG1186559
2,2-Dichloropropane	U		0.00384	0.0121	4	10/26/2018 06:14	WG1186559
Di-isopropyl ether	U		0.00170	0.00484	4	10/26/2018 06:14	WG1186559
Ethylbenzene	U		0.00257	0.0121	4	10/26/2018 06:14	WG1186559
Hexachloro-1,3-butadiene	U		0.0615	0.121	4	10/26/2018 06:14	WG1186559
2-Hexanone	U		0.0484	0.121	4	10/26/2018 06:14	WG1186559
n-Hexane	U		0.00513	0.0242	4	10/26/2018 06:14	WG1186559
Iodomethane	U		0.0293	0.0605	4	10/26/2018 06:14	WG1186559
Isopropylbenzene	U		0.00418	0.0121	4	10/26/2018 06:14	WG1186559
p-Isopropyltoluene	U		0.0113	0.0242	4	10/26/2018 06:14	WG1186559
2-Butanone (MEK)	U		0.0605	0.121	4	10/26/2018 06:14	WG1186559
Methylene Chloride	U		0.0322	0.121	4	10/26/2018 06:14	WG1186559
4-Methyl-2-pentanone (MIBK)	U		0.0484	0.121	4	10/26/2018 06:14	WG1186559

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00143	0.00484	4	10/26/2018 06:14	WG1186559
Naphthalene	U		0.0151	0.0605	4	10/26/2018 06:14	WG1186559
n-Propylbenzene	U		0.00571	0.0242	4	10/26/2018 06:14	WG1186559
Styrene	U		0.0132	0.0605	4	10/26/2018 06:14	WG1186559
1,1,1,2-Tetrachloroethane	U		0.00242	0.0121	4	10/26/2018 06:14	WG1186559
1,1,2,2-Tetrachloroethane	U		0.00189	0.0121	4	10/26/2018 06:14	WG1186559
1,1,2-Trichlorotrifluoroethane	U		0.00327	0.0121	4	10/26/2018 06:14	WG1186559
Tetrachloroethene	1.47		0.00339	0.0121	4	10/26/2018 06:14	WG1186559
Toluene	U		0.00605	0.0242	4	10/26/2018 06:14	WG1186559
1,2,3-Trichlorobenzene	U		0.00303	0.0121	4	10/26/2018 06:14	WG1186559
1,2,4-Trichlorobenzene	U		0.0234	0.0605	4	10/26/2018 06:14	WG1186559
1,1,1-Trichloroethane	U		0.00133	0.0121	4	10/26/2018 06:14	WG1186559
1,1,2-Trichloroethane	U		0.00427	0.0121	4	10/26/2018 06:14	WG1186559
Trichloroethene	0.564		0.00194	0.00484	4	10/26/2018 06:14	WG1186559
Trichlorofluoromethane	U		0.00242	0.0121	4	10/26/2018 06:14	WG1186559
1,2,3-Trichloropropane	U		0.0247	0.0605	4	10/26/2018 06:14	WG1186559
1,2,4-Trimethylbenzene	U		0.00562	0.0242	4	10/26/2018 06:14	WG1186559
1,2,3-Trimethylbenzene	U		0.00557	0.0242	4	10/26/2018 06:14	WG1186559
1,3,5-Trimethylbenzene	U		0.00523	0.0242	4	10/26/2018 06:14	WG1186559
Vinyl acetate	U		0.0171	0.0605	4	10/26/2018 06:14	WG1186559
Vinyl chloride	U		0.00331	0.0121	4	10/26/2018 06:14	WG1186559
Xylenes, Total	U		0.0231	0.0315	4	10/26/2018 06:14	WG1186559
(S) Toluene-d8	*107*			*75.0-131*		*10/26/2018 06:14*	WG1186559
(S) Dibromofluoromethane	*99.2*			*65.0-129*		*10/26/2018 06:14*	WG1186559
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*10/26/2018 06:14*	WG1186559

Sample Narrative:

L1036481-03 WG1186559: Diluted due to high levels of target analytes.

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MEMORANDUM

TO:	Project File	**DATE:** November 12, 2018
FROM:	Jessie Compeau	
SUBJECT:	Laboratory Data Validation Review	
PROJECT:	American Linen Data Validation	
PROJECT #:	1413.001.05.304	
TASK:	October 2018 - Groundwater Samples	
LAB:	Pace Analytical Sample Delivery Groups L1038864, L1038867, and L1039305	

Eighteen (18) groundwater samples (including one field duplicate), one rinsate, and one trip blank sample were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, between October 25 and October 29, 2018. The samples were shipped and delivered to Pace Analytical (formerly ESC Lab Sciences (ESC)) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology.

Associated sample data are reported in three Pace Analytical (Pace) SDGs (L1038864, L1038867, and L1039305). The quality assurance review of the sample data are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at cooler temperatures less than the recommended temperature preservation less than 6°C. Samples were received in good condition with the following discussion:

- SDG L1038864. Sample W-MW-02-102618 is incorrectly listed on the lab report as IW-MW-02-102618. No action is taken other than to note this as a minor discrepancy.

No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria were met.

NWTPH-Gx Method:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDG L1038864 - *USEPA Method 8260C:* A continuing calibration verification (CCV) issue was noted by Pace for vinyl acetate associated with analytical batch WG1188129 (analyzed on November 6, 2018). The vinyl acetate result is qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated vinyl acetate result (sample MW-300-102618) with a laboratory qualified (J0) result is estimated and qualified (J/UJ).**

- SDGs L1038864 and L1038867 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batch WG1188131 (analyzed on October 29, 2018). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1038864 - Analytical batch WG1188129: Low levels of carbon disulfide, cis-1,2-dichloroethene, hexachloro-1,3-butadiene and 1,2,3-trichlorobenzene are detected in the method blank. **Both hexachloro-1,3-butadiene and 1,2,3-trichlorobenzene are detected below the RDL in sample MW-300-102618 and these results are qualified as not detected (U) due to method blank contamination. Sample MW-300-102618 result for cis-1,2-dichloroethene is detected above the RDL and qualified (J+) to indicate potential high bias due to method blank contamination.** Carbon disulfide is not detected in the associated sample and no action is required.

- SDG L1038864 - Analytical batch WG1191566: A low level of cis-1,2-dichloroethene is detected in the method blank below the RDL and in sample MW-139-102518. **The cis-1,2-dichloroethene sample MW-139-102518 result is qualified as not detected (U) due to method blank contamination. Sample MW-131-102518 result for cis-1,2-dichloroethene is detected above the RDL and qualified (J+) to indicate potential high bias due to method blank contamination.** Remaining results are significantly greater than the blank detection and no further action is taken with the following discussion:

    - Sample IW-MW-02-102618 (or W-MW-02-102618), was analyzed twice for cis-1,2-dichloroethene. Pace opted to report cis-1,2-dichloroethene result from October 29, 2018 (analytical batch WG1188131) therefore the sample result is not impacted by the contaminated blank associated with analytical batch WG1191566.

- SDG L1039305 - Analytical batch WG1188785: Low levels of hexachloro-1,3-butadiene, iodomethane, and 1,2,3-trichlorobenzene are detected in the method blank. **Idomethane (also referred to as methyl iodide) is detected at low levels (below the RDL) in samples MW-136-102918, MW-138-102918, and W-MW-01-102918 and these results are qualified as not detected (U) due to method blank contamination.** Hexachloro-1,3-butadiene and 1,2,3-trichlorobenzene are not detected in the associated samples and no action is required.

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1038864 - Analytical batch WG1189237: Gasoline was detected at a low level in the method blank. Gasoline was also detected at low levels in associated samples IW-MW-02-102618 (or W-MW-02-102618), MW-151-102518, MW-131-102518, MW-139-102518, and MW-132-102518. **Sample MW-151-102518, MW-131-102518, MW-139-102518, and MW-132-102518 gasoline results were reported below the RDL and are qualified as not detected (U) due to method blank contamination. Sample MW-**

300-102618 gasoline result is slightly above the RDL and qualified (J+) to indicate potential high bias. For field duplicate samples IW-MW-02-102618 (or W-MW-02-102618) and MW-300-102618 please refer to the Field Duplicate Analyses for additional discussion on qualifiers. Remaining results are significantly greater than the blank detection and no further action is taken.

- SDG L1038867 - Analytical batch WG1189621: Gasoline was detected at a low level in the method blank. Gasoline was detected at low levels in associated samples MW-134-102518, MW-137-102618, and in the rinsate sample (Rinsate). **Sample MW-134-102518, MW-137-102618, and Rinsate gasoline results were reported below the RDL and are qualified as not detected (U) due to method blank contamination.** Remaining results are significantly greater than the blank detection and no further action is taken.

- SDG L1039305 - Analytical batch WG1190352: Gasoline was detected at a low level in the method blank. Gasoline was detected at low levels in associated samples MW-136-102918, MW-138-102918, and in the trip blank. **Sample MW-136-102918, MW-138-102918, and trip blank gasoline results were reported below the RDL and are qualified as not detected (U) due to method blank contamination.** Remaining results are significantly greater than the blank detection and no further action is taken.

Trip Blank Results

USEPA Method 8260Cand NWTPH-Gx Method:
Two trip blanks were collected and analyzed. The target analytes were not detected in the trip blanks at or above the RDLs with the following exceptions:

- SDG L1039305 - Analytical batch WG1188785: Low levels of acetone and iodomethane are detected in the trip blank. Low levels of acetone are detected in samples MW-136-102918, MW-138-102918, and W-MW-01-102918**. Sample MW-136-102918, MW-138-102918, and W-MW-01-102918 results for acetone are qualified as not detected (U) due to trip blank contamination.** No action is required for iodomethane as this compound is also detected in the associated method blank. Refer to the discussion under Method Blank for further details.

Field, Rinsate, or Equipment Blank Results

A rinsate was collected and analyzed. The target analytes were not detected in the rinsate at or above the RDLs with the following exceptions:

- SDG L1038867: Low levels of gasoline, acetone, cis-1,2-dichloroethene, tetrachloroethene, toluene, and trichloroethene were detected in the rinsate sample (Rinsate) at levels above and below the RDL. Actions are as follows:
    - **Gasoline is detected in the associated method blank therefore the gasoline result in the Rinsate is qualified as not detected (U) due to method blank contamination.**

- Acetone is detected below the RDL in the rinsate and below the RDL in samples MW-104-102618 and MW-133-102618. **The low level acetone results in sample MW-104-102618 and MW-133-102618 are qualified as not detected (U) due to possible rinsate blank contamination.**

- cis-1,2-Dichloroethene is detected below the RDL in the rinsate and slightly above the RDL in sample MW-137-102618. **Sample MW-137-102618 cis-1,2-dichloroethene result is qualified (J+) to indicate potential high bias due to possible equipment blank contamination.**

- Tetrachloroethene is detected above the RDL in the Rinsate and above the RDL in samples MW-104-102618, MW-133-102618, and MW-137-102618. Tetrachloroethene detections are less than five times (5X) the blank contamination. **Sample MW-104-102618, MW-133-102618, and MW-137-102618 results for tetrachloroethene are estimated and qualified (J+) due to rinsate blank contamination.**

- Toluene is detected above the RDL in the Rinsate and above the RDL in sample MW-104-102618. **Sample MW-104-102618 result for toluene is estimated and qualified (J+) due to rinsate blank contamination.**

- Trichloroethene is detected below the RDL in the Rinsate. **Samples MW-104-102618 and MW-133-102618 are detected above the RDL and are estimated with high bias (J+) due to blank contamination. Sample MW-137-102618 is detected below the RDL and qualified as not detected (U) due to rinsate blank contamination.**

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1038864: Sample IW-MW-02-102618 and MW-300-102618

VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% (for results >5X the RDL or absolute difference <1X the RL) for the field duplicate with the following exception:

- Gasoline results are not comparable due, in part, to method blank contamination. Sample MW-300-102618 is qualified (J+) due to method blank contamination. Sample IW-MW-02-102618 was initially qualified (U) due to method blank contamination and superseded with an estimated (UJ) qualifier due to precision data. **Field duplicate sample results for gasoline are estimated and qualified (J+/UJ) due to poor precision.**

Laboratory Duplicate Analyses

USEPA Method 8260C:

A laboratory duplicate sample was not analyzed. Refer to the section on Laboratory Control Samples for additional details.

NWTPH-Gx Method:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, and blanks are within the laboratory surrogate control limits for all of the analyses.

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, and blanks are within the laboratory surrogate control limits for all of the analyses.

Laboratory Control Samples

USEPA Method 8260C:

Laboratory control sample and laboratory control sample duplicate (LCS/LCSD) were analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters.

NWTPH-Gx Method:
The LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and field duplicate data for accuracy and precision data.

NWTPH-Gx Method:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and field duplicate data for accuracy and precision data.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. The RDLs used for this sample group are acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes. Pace sample narrative notes indicate that for water samples MW-152-102618, MW-135-102518, MW-150-102518, and MW-149-102518 (SDG L1038864) the target compounds were too high to run the sample at a lower dilution. No action is taken other than to note that these results should be reviewed for unusual trends against the existing data set.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	246 J+	B	31.6	100	1	10/31/2018 19:40	WG1189237
(S) a,a,a-Trifluorotoluene(FID)	*91.7*			*78.0-120*		*10/31/2018 19:40*	WG1189237

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.87 J	J	1.05	25.0	1	11/06/2018 13:41	WG1188129
Acrylonitrile	U		0.873	5.00	1	11/06/2018 13:41	WG1188129
Benzene	U		0.0896	0.500	1	11/06/2018 13:41	WG1188129
Bromobenzene	U		0.133	0.500	1	11/06/2018 13:41	WG1188129
Bromodichloromethane	U		0.0800	0.500	1	11/06/2018 13:41	WG1188129
Bromochloromethane	U		0.145	0.500	1	11/06/2018 13:41	WG1188129
Bromoform	U		0.186	0.500	1	11/06/2018 13:41	WG1188129
Bromomethane	U		0.157	2.50	1	11/06/2018 13:41	WG1188129
n-Butylbenzene	U		0.143	0.500	1	11/06/2018 13:41	WG1188129
sec-Butylbenzene	U		0.134	0.500	1	11/06/2018 13:41	WG1188129
tert-Butylbenzene	U		0.183	0.500	1	11/06/2018 13:41	WG1188129
Carbon disulfide	U		0.101	0.500	1	11/06/2018 13:41	WG1188129
Carbon tetrachloride	U		0.159	0.500	1	11/06/2018 13:41	WG1188129
Chlorobenzene	U		0.140	0.500	1	11/06/2018 13:41	WG1188129
Chlorodibromomethane	U		0.128	0.500	1	11/06/2018 13:41	WG1188129
Chloroethane	U		0.141	2.50	1	11/06/2018 13:41	WG1188129
Chloroform	U		0.0860	0.500	1	11/06/2018 13:41	WG1188129
Chloromethane	U		0.153	1.25	1	11/06/2018 13:41	WG1188129
2-Chlorotoluene	U		0.111	0.500	1	11/06/2018 13:41	WG1188129
4-Chlorotoluene	U		0.0972	0.500	1	11/06/2018 13:41	WG1188129
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/06/2018 13:41	WG1188129
1,2-Dibromoethane	U		0.193	0.500	1	11/06/2018 13:41	WG1188129
Dibromomethane	U		0.117	0.500	1	11/06/2018 13:41	WG1188129
1,2-Dichlorobenzene	U		0.101	0.500	1	11/06/2018 13:41	WG1188129
1,3-Dichlorobenzene	U		0.130	0.500	1	11/06/2018 13:41	WG1188129
1,4-Dichlorobenzene	U		0.121	0.500	1	11/06/2018 13:41	WG1188129
Dichlorodifluoromethane	U		0.127	2.50	1	11/06/2018 13:41	WG1188129
1,1-Dichloroethane	U		0.114	0.500	1	11/06/2018 13:41	WG1188129
1,2-Dichloroethane	U		0.108	0.500	1	11/06/2018 13:41	WG1188129
1,1-Dichloroethene	U		0.188	0.500	1	11/06/2018 13:41	WG1188129
cis-1,2-Dichloroethene	2.11 J+	B	0.0933	0.500	1	11/06/2018 13:41	WG1188129
trans-1,2-Dichloroethene	0.435 J	J	0.152	0.500	1	11/06/2018 13:41	WG1188129
1,2-Dichloropropane	U		0.190	0.500	1	11/06/2018 13:41	WG1188129
1,1-Dichloropropene	U		0.128	0.500	1	11/06/2018 13:41	WG1188129
1,3-Dichloropropane	U		0.147	1.00	1	11/06/2018 13:41	WG1188129
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/06/2018 13:41	WG1188129
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/06/2018 13:41	WG1188129
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/06/2018 13:41	WG1188129
2,2-Dichloropropane	U		0.0929	0.500	1	11/06/2018 13:41	WG1188129
Di-isopropyl ether	U		0.0924	0.500	1	11/06/2018 13:41	WG1188129
Ethylbenzene	U		0.158	0.500	1	11/06/2018 13:41	WG1188129
Hexachloro-1,3-butadiene	0.202 U	B J	0.157	1.00	1	11/06/2018 13:41	WG1188129
2-Hexanone	U		0.757	5.00	1	11/06/2018 13:41	WG1188129
n-Hexane	U		0.305	5.00	1	11/06/2018 13:41	WG1188129
Iodomethane	U		0.377	10.0	1	11/06/2018 13:41	WG1188129
Isopropylbenzene	U		0.126	0.500	1	11/06/2018 13:41	WG1188129
p-Isopropyltoluene	U		0.138	0.500	1	11/06/2018 13:41	WG1188129
2-Butanone (MEK)	U		1.28	5.00	1	11/06/2018 13:41	WG1188129

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	11/06/2018 13:41	WG1188129
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	11/06/2018 13:41	WG1188129
Methyl tert-butyl ether	U			0.102	0.500	1	11/06/2018 13:41	WG1188129
Naphthalene	0.191	J	J	0.174	2.50	1	11/06/2018 13:41	WG1188129
n-Propylbenzene	U			0.162	0.500	1	11/06/2018 13:41	WG1188129
Styrene	U			0.117	0.500	1	11/06/2018 13:41	WG1188129
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	11/06/2018 13:41	WG1188129
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	11/06/2018 13:41	WG1188129
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	11/06/2018 13:41	WG1188129
Tetrachloroethene	U			0.199	0.500	1	11/06/2018 13:41	WG1188129
Toluene	0.587			0.412	0.500	1	11/06/2018 13:41	WG1188129
1,2,3-Trichlorobenzene	0.181	U	B J	0.164	0.500	1	11/06/2018 13:41	WG1188129
1,2,4-Trichlorobenzene	U			0.355	0.500	1	11/06/2018 13:41	WG1188129
1,1,1-Trichloroethane	U			0.0940	0.500	1	11/06/2018 13:41	WG1188129
1,1,2-Trichloroethane	U			0.186	0.500	1	11/06/2018 13:41	WG1188129
Trichloroethene	U			0.153	0.500	1	11/06/2018 16:15	WG1192268
Trichlorofluoromethane	U			0.130	2.50	1	11/06/2018 13:41	WG1188129
1,2,3-Trichloropropane	U			0.247	2.50	1	11/06/2018 13:41	WG1188129
1,2,4-Trimethylbenzene	U			0.123	0.500	1	11/06/2018 13:41	WG1188129
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	11/06/2018 13:41	WG1188129
1,3,5-Trimethylbenzene	U			0.124	0.500	1	11/06/2018 13:41	WG1188129
Vinyl acetate	U	UJ	J0	0.645	5.00	1	11/06/2018 13:41	WG1188129
Vinyl chloride	1.80			0.118	0.500	1	11/06/2018 13:41	WG1188129
Xylenes, Total	U			0.316	1.50	1	11/06/2018 13:41	WG1188129
(S) Toluene-d8	*99.4*				*80.0-120*		*11/06/2018 13:41*	WG1188129
(S) Toluene-d8	*103*				*80.0-120*		*11/06/2018 16:15*	WG1192268
(S) Dibromofluoromethane	*108*				*75.0-120*		*11/06/2018 13:41*	WG1188129
(S) Dibromofluoromethane	*97.8*				*75.0-120*		*11/06/2018 16:15*	WG1192268
(S) 4-Bromofluorobenzene	*106*				*77.0-126*		*11/06/2018 13:41*	WG1188129
(S) 4-Bromofluorobenzene	*99.4*				*77.0-126*		*11/06/2018 16:15*	WG1192268

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	90.2	UJ	B J	31.6	100	1	10/31/2018 20:02	WG1189237
(S) a,a,a-Trifluorotoluene(FID)	*92.4*				*78.0-120*		*10/31/2018 20:02*	WG1189237

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.42	J	J J0	1.05	25.0	1	10/29/2018 18:01	WG1188131
Acrylonitrile	U	UJ	J0	0.873	5.00	1	10/29/2018 18:01	WG1188131
Benzene	U			0.0896	0.500	1	10/29/2018 18:01	WG1188131
Bromobenzene	U			0.133	0.500	1	10/29/2018 18:01	WG1188131
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 18:01	WG1188131
Bromochloromethane	U			0.145	0.500	1	10/29/2018 18:01	WG1188131
Bromoform	U			0.186	0.500	1	10/29/2018 18:01	WG1188131
Bromomethane	U	UJ	J0	0.157	2.50	1	10/29/2018 18:01	WG1188131
n-Butylbenzene	U	UJ	J0	0.143	0.500	1	10/29/2018 18:01	WG1188131
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 18:01	WG1188131
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 18:01	WG1188131
Carbon disulfide	0.214	J	J	0.101	0.500	1	10/29/2018 18:01	WG1188131
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 18:01	WG1188131
Chlorobenzene	U			0.140	0.500	1	10/29/2018 18:01	WG1188131
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 18:01	WG1188131
Chloroethane	U	UJ	J0	0.141	2.50	1	10/29/2018 18:01	WG1188131
Chloroform	U			0.0860	0.500	1	10/29/2018 18:01	WG1188131
Chloromethane	U			0.153	1.25	1	11/05/2018 14:11	WG1191566
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 18:01	WG1188131
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 18:01	WG1188131
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	10/29/2018 18:01	WG1188131
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 18:01	WG1188131
Dibromomethane	U			0.117	0.500	1	10/29/2018 18:01	WG1188131
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 18:01	WG1188131
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 18:01	WG1188131
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 18:01	WG1188131
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 14:11	WG1191566
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 18:01	WG1188131
1,2-Dichloroethane	U	UJ	J0	0.108	0.500	1	10/29/2018 18:01	WG1188131
1,1-Dichloroethene	U			0.188	0.500	1	10/29/2018 18:01	WG1188131
cis-1,2-Dichloroethene	2.01			0.0933	0.500	1	10/29/2018 18:01	WG1188131
trans-1,2-Dichloroethene	0.410	J	J	0.152	0.500	1	10/29/2018 18:01	WG1188131
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 18:01	WG1188131
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 18:01	WG1188131
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 18:01	WG1188131
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 18:01	WG1188131
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 18:01	WG1188131
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 14:11	WG1191566
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 18:01	WG1188131
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 18:01	WG1188131
Ethylbenzene	U			0.158	0.500	1	10/29/2018 18:01	WG1188131
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 18:01	WG1188131
2-Hexanone	U			0.757	5.00	1	10/29/2018 18:01	WG1188131
n-Hexane	U			0.305	5.00	1	10/29/2018 18:01	WG1188131
Iodomethane	U			0.377	10.0	1	10/29/2018 18:01	WG1188131
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 18:01	WG1188131
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 18:01	WG1188131
2-Butanone (MEK)	U	UJ	J0	1.28	5.00	1	10/29/2018 18:01	WG1188131

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 18:01	WG1188131
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 18:01	WG1188131
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 18:01	WG1188131
Naphthalene	U UJ	J0	0.174	2.50	1	10/29/2018 18:01	WG1188131
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 18:01	WG1188131
Styrene	U		0.117	0.500	1	10/29/2018 18:01	WG1188131
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 18:01	WG1188131
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 18:01	WG1188131
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 18:01	WG1188131
Tetrachloroethene	U		0.199	0.500	1	10/29/2018 18:01	WG1188131
Toluene	0.641		0.412	0.500	1	10/29/2018 18:01	WG1188131
1,2,3-Trichlorobenzene	U UJ	J0	0.164	0.500	1	10/29/2018 18:01	WG1188131
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 18:01	WG1188131
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 18:01	WG1188131
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 18:01	WG1188131
Trichloroethene	U		0.153	0.500	1	10/29/2018 18:01	WG1188131
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 18:01	WG1188131
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 18:01	WG1188131
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 18:01	WG1188131
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 18:01	WG1188131
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 18:01	WG1188131
Vinyl acetate	U		0.645	5.00	1	10/29/2018 18:01	WG1188131
Vinyl chloride	1.41		0.118	0.500	1	10/29/2018 18:01	WG1188131
Xylenes, Total	U		0.316	1.50	1	10/29/2018 18:01	WG1188131
(S) Toluene-d8	*102*			*80.0-120*		*10/29/2018 18:01*	WG1188131
(S) Toluene-d8	*104*			*80.0-120*		*11/05/2018 14:11*	WG1191566
(S) Dibromofluoromethane	*93.0*			*75.0-120*		*10/29/2018 18:01*	WG1188131
(S) Dibromofluoromethane	*89.6*			*75.0-120*		*11/05/2018 14:11*	WG1191566
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/29/2018 18:01*	WG1188131
(S) 4-Bromofluorobenzene	*84.1*			*77.0-126*		*11/05/2018 14:11*	WG1191566

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Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	36700		632	2000	20	10/31/2018 20:25	WG1189237
(S) a,a,a-Trifluorotoluene(FID)	*92.6*			*78.0-120*		*10/31/2018 20:25*	WG1189237

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	65.4 J	J J0	52.5	1250	50	10/29/2018 18:21	WG1188131
Acrylonitrile	U UJ	J0	43.6	250	50	10/29/2018 18:21	WG1188131
Benzene	U		4.48	25.0	50	10/29/2018 18:21	WG1188131
Bromobenzene	U		6.65	25.0	50	10/29/2018 18:21	WG1188131
Bromodichloromethane	U		4.00	25.0	50	10/29/2018 18:21	WG1188131
Bromochloromethane	U		7.25	25.0	50	10/29/2018 18:21	WG1188131
Bromoform	U		9.30	25.0	50	10/29/2018 18:21	WG1188131
Bromomethane	U UJ	J0	7.85	125	50	10/29/2018 18:21	WG1188131
n-Butylbenzene	U UJ	J0	7.15	25.0	50	10/29/2018 18:21	WG1188131
sec-Butylbenzene	U		6.70	25.0	50	10/29/2018 18:21	WG1188131
tert-Butylbenzene	U		9.15	25.0	50	10/29/2018 18:21	WG1188131
Carbon disulfide	U		5.05	25.0	50	10/29/2018 18:21	WG1188131
Carbon tetrachloride	U		7.95	25.0	50	10/29/2018 18:21	WG1188131
Chlorobenzene	U		7.00	25.0	50	10/29/2018 18:21	WG1188131
Chlorodibromomethane	U		6.40	25.0	50	10/29/2018 18:21	WG1188131
Chloroethane	U UJ	J0	7.05	125	50	10/29/2018 18:21	WG1188131
Chloroform	4.46 J	J	4.30	25.0	50	10/29/2018 18:21	WG1188131
Chloromethane	U		306	2500	2000	11/05/2018 15:50	WG1191566
2-Chlorotoluene	U		5.55	25.0	50	10/29/2018 18:21	WG1188131
4-Chlorotoluene	U		4.86	25.0	50	10/29/2018 18:21	WG1188131
1,2-Dibromo-3-Chloropropane	U UJ	J0	16.2	125	50	10/29/2018 18:21	WG1188131
1,2-Dibromoethane	U		9.65	25.0	50	10/29/2018 18:21	WG1188131
Dibromomethane	U		5.85	25.0	50	10/29/2018 18:21	WG1188131
1,2-Dichlorobenzene	U		5.05	25.0	50	10/29/2018 18:21	WG1188131
1,3-Dichlorobenzene	U		6.50	25.0	50	10/29/2018 18:21	WG1188131
1,4-Dichlorobenzene	U		6.05	25.0	50	10/29/2018 18:21	WG1188131
Dichlorodifluoromethane	U		254	5000	2000	11/05/2018 15:50	WG1191566
1,1-Dichloroethane	U		5.70	25.0	50	10/29/2018 18:21	WG1188131
1,2-Dichloroethane	U UJ	J0	5.40	25.0	50	10/29/2018 18:21	WG1188131
1,1-Dichloroethene	86.9		9.40	25.0	50	10/29/2018 18:21	WG1188131
cis-1,2-Dichloroethene	73000		187	1000	2000	11/05/2018 15:50	WG1191566
trans-1,2-Dichloroethene	109		7.60	25.0	50	10/29/2018 18:21	WG1188131
1,2-Dichloropropane	U		9.50	25.0	50	10/29/2018 18:21	WG1188131
1,1-Dichloropropene	U		6.40	25.0	50	10/29/2018 18:21	WG1188131
1,3-Dichloropropane	U		7.35	50.0	50	10/29/2018 18:21	WG1188131
cis-1,3-Dichloropropene	U		4.88	25.0	50	10/29/2018 18:21	WG1188131
trans-1,3-Dichloropropene	U		11.1	25.0	50	10/29/2018 18:21	WG1188131
trans-1,4-Dichloro-2-butene	U		514	10000	2000	11/05/2018 15:50	WG1191566
2,2-Dichloropropane	U		4.64	25.0	50	10/29/2018 18:21	WG1188131
Di-isopropyl ether	U		4.62	25.0	50	10/29/2018 18:21	WG1188131
Ethylbenzene	U		7.90	25.0	50	10/29/2018 18:21	WG1188131
Hexachloro-1,3-butadiene	U		7.85	50.0	50	10/29/2018 18:21	WG1188131
2-Hexanone	U		37.8	250	50	10/29/2018 18:21	WG1188131
n-Hexane	U		15.2	250	50	10/29/2018 18:21	WG1188131
Iodomethane	U		18.8	500	50	10/29/2018 18:21	WG1188131
Isopropylbenzene	U		6.30	25.0	50	10/29/2018 18:21	WG1188131
p-Isopropyltoluene	U		6.90	25.0	50	10/29/2018 18:21	WG1188131
2-Butanone (MEK)	213 J	J J0	64.0	250	50	10/29/2018 18:21	WG1188131

JC 11/12/18

MW-152-102618

Collected date/time: 10/26/18 08:07

SAMPLE RESULTS - 03

L1038864

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		53.5	125	50	10/29/2018 18:21	WG1188131
4-Methyl-2-pentanone (MIBK)	U		41.2	250	50	10/29/2018 18:21	WG1188131
Methyl tert-butyl ether	U		5.10	25.0	50	10/29/2018 18:21	WG1188131
Naphthalene	U	UJ J0	8.70	125	50	10/29/2018 18:21	WG1188131
n-Propylbenzene	U		8.10	25.0	50	10/29/2018 18:21	WG1188131
Styrene	U		5.85	25.0	50	10/29/2018 18:21	WG1188131
1,1,1,2-Tetrachloroethane	U		6.00	25.0	50	10/29/2018 18:21	WG1188131
1,1,2,2-Tetrachloroethane	U		6.50	25.0	50	10/29/2018 18:21	WG1188131
1,1,2-Trichlorotrifluoroethane	U		8.20	25.0	50	10/29/2018 18:21	WG1188131
Tetrachloroethene	1960		9.95	25.0	50	10/29/2018 18:21	WG1188131
Toluene	U		20.6	25.0	50	10/29/2018 18:21	WG1188131
1,2,3-Trichlorobenzene	U	UJ J0	8.20	25.0	50	10/29/2018 18:21	WG1188131
1,2,4-Trichlorobenzene	U		17.8	25.0	50	10/29/2018 18:21	WG1188131
1,1,1-Trichloroethane	U		4.70	25.0	50	10/29/2018 18:21	WG1188131
1,1,2-Trichloroethane	U		9.30	25.0	50	10/29/2018 18:21	WG1188131
Trichloroethene	3150		7.65	25.0	50	10/29/2018 18:21	WG1188131
Trichlorofluoromethane	U		6.50	125	50	10/29/2018 18:21	WG1188131
1,2,3-Trichloropropane	U		12.4	125	50	10/29/2018 18:21	WG1188131
1,2,4-Trimethylbenzene	U		6.15	25.0	50	10/29/2018 18:21	WG1188131
1,2,3-Trimethylbenzene	U		3.70	25.0	50	10/29/2018 18:21	WG1188131
1,3,5-Trimethylbenzene	U		6.20	25.0	50	10/29/2018 18:21	WG1188131
Vinyl acetate	U		32.2	250	50	10/29/2018 18:21	WG1188131
Vinyl chloride	4510		5.90	25.0	50	10/29/2018 18:21	WG1188131
Xylenes, Total	U		15.8	75.0	50	10/29/2018 18:21	WG1188131
(S) Toluene-d8	*102*			*80.0-120*		*10/29/2018 18:21*	WG1188131
(S) Toluene-d8	*103*			*80.0-120*		*11/05/2018 15:50*	WG1191566
(S) Dibromofluoromethane	*91.7*			*75.0-120*		*10/29/2018 18:21*	WG1188131
(S) Dibromofluoromethane	*91.4*			*75.0-120*		*11/05/2018 15:50*	WG1191566
(S) 4-Bromofluorobenzene	*96.6*			*77.0-126*		*10/29/2018 18:21*	WG1188131
(S) 4-Bromofluorobenzene	*87.7*			*77.0-126*		*11/05/2018 15:50*	WG1191566

Sample Narrative:

L1038864-03 WG1188131, WG1191566: Not all compounds reportable at lower dilution.

L1038864-03 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

JC 11/12/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	99.4	U	B J	31.6	100	1	10/31/2018 20:48	WG1189237
(S) a,a,a-Trifluorotoluene(FID)	*92.4*				*78.0-120*		*10/31/2018 20:48*	WG1189237

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	107	J	J0	1.05	25.0	1	10/29/2018 18:40	WG1188131	
Acrylonitrile	U	UJ	J0	0.873	5.00	1	10/29/2018 18:40	WG1188131	
Benzene	0.167	J	J	0.0896	0.500	1	10/29/2018 18:40	WG1188131	
Bromobenzene	U			0.133	0.500	1	10/29/2018 18:40	WG1188131	
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 18:40	WG1188131	
Bromochloromethane	U			0.145	0.500	1	10/29/2018 18:40	WG1188131	
Bromoform	U			0.186	0.500	1	10/29/2018 18:40	WG1188131	
Bromomethane	U	UJ	J0	0.157	2.50	1	10/29/2018 18:40	WG1188131	
n-Butylbenzene	U	UJ	J0	0.143	0.500	1	10/29/2018 18:40	WG1188131	
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 18:40	WG1188131	
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 18:40	WG1188131	
Carbon disulfide	9.13			0.101	0.500	1	10/29/2018 18:40	WG1188131	
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 18:40	WG1188131	
Chlorobenzene	U			0.140	0.500	1	10/29/2018 18:40	WG1188131	
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 18:40	WG1188131	
Chloroethane	U	UJ	J0	0.141	2.50	1	10/29/2018 18:40	WG1188131	
Chloroform	1.02			0.0860	0.500	1	10/29/2018 18:40	WG1188131	
Chloromethane	U			0.153	1.25	1	11/05/2018 14:31	WG1191566	
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 18:40	WG1188131	
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 18:40	WG1188131	
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	10/29/2018 18:40	WG1188131	
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 18:40	WG1188131	
Dibromomethane	U			0.117	0.500	1	10/29/2018 18:40	WG1188131	
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 18:40	WG1188131	
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 18:40	WG1188131	
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 18:40	WG1188131	
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 14:31	WG1191566	
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 18:40	WG1188131	
1,2-Dichloroethane	U	UJ	J0	0.108	0.500	1	10/29/2018 18:40	WG1188131	
1,1-Dichloroethene	U			0.188	0.500	1	10/29/2018 18:40	WG1188131	
cis-1,2-Dichloroethene	5.80			0.0933	0.500	1	11/05/2018 14:31	WG1191566	
trans-1,2-Dichloroethene	0.346	J	J	0.152	0.500	1	10/29/2018 18:40	WG1188131	
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 18:40	WG1188131	
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 18:40	WG1188131	
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 18:40	WG1188131	
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 18:40	WG1188131	
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 18:40	WG1188131	
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 14:31	WG1191566	JC 11/12/18
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 18:40	WG1188131	
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 18:40	WG1188131	
Ethylbenzene	U			0.158	0.500	1	10/29/2018 18:40	WG1188131	
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 18:40	WG1188131	
2-Hexanone	U			0.757	5.00	1	10/29/2018 18:40	WG1188131	
n-Hexane	U			0.305	5.00	1	10/29/2018 18:40	WG1188131	
Iodomethane	U			0.377	10.0	1	10/29/2018 18:40	WG1188131	
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 18:40	WG1188131	
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 18:40	WG1188131	
2-Butanone (MEK)	31.7	J	J0	1.28	5.00	1	10/29/2018 18:40	WG1188131	

MW-151-102518

Collected date/time: 10/25/18 16:17

SAMPLE RESULTS - 04

L1038864

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 18:40	WG1188131
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 18:40	WG1188131
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 18:40	WG1188131
Naphthalene	U UJ	J0	0.174	2.50	1	10/29/2018 18:40	WG1188131
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 18:40	WG1188131
Styrene	U		0.117	0.500	1	10/29/2018 18:40	WG1188131
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 18:40	WG1188131
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 18:40	WG1188131
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 18:40	WG1188131
Tetrachloroethene	2.28		0.199	0.500	1	10/29/2018 18:40	WG1188131
Toluene	U		0.412	0.500	1	10/29/2018 18:40	WG1188131
1,2,3-Trichlorobenzene	U UJ	J0	0.164	0.500	1	10/29/2018 18:40	WG1188131
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 18:40	WG1188131
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 18:40	WG1188131
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 18:40	WG1188131
Trichloroethene	1.38		0.153	0.500	1	10/29/2018 18:40	WG1188131
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 18:40	WG1188131
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 18:40	WG1188131
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 18:40	WG1188131
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 18:40	WG1188131
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 18:40	WG1188131
Vinyl acetate	U		0.645	5.00	1	10/29/2018 18:40	WG1188131
Vinyl chloride	7.70		0.118	0.500	1	10/29/2018 18:40	WG1188131
Xylenes, Total	U		0.316	1.50	1	10/29/2018 18:40	WG1188131
(S) Toluene-d8	*103*			*80.0-120*		*10/29/2018 18:40*	WG1188131
(S) Toluene-d8	*105*			*80.0-120*		*11/05/2018 14:31*	WG1191566
(S) Dibromofluoromethane	*92.1*			*75.0-120*		*10/29/2018 18:40*	WG1188131
(S) Dibromofluoromethane	*89.7*			*75.0-120*		*11/05/2018 14:31*	WG1191566
(S) 4-Bromofluorobenzene	*99.4*			*77.0-126*		*10/29/2018 18:40*	WG1188131
(S) 4-Bromofluorobenzene	*86.2*			*77.0-126*		*11/05/2018 14:31*	WG1191566

JC 11/12/18

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	57.6	U	B J	31.6	100	1	10/31/2018 21:11	WG1189237
(S) a,a,a-Trifluorotoluene(FID)	*92.7*				*78.0-120*		*10/31/2018 21:11*	WG1189237

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	6.30	J	J J0	1.05	25.0	1	10/29/2018 19:00	WG1188131
Acrylonitrile	U	UJ	J0	0.873	5.00	1	10/29/2018 19:00	WG1188131
Benzene	U			0.0896	0.500	1	10/29/2018 19:00	WG1188131
Bromobenzene	U			0.133	0.500	1	10/29/2018 19:00	WG1188131
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 19:00	WG1188131
Bromochloromethane	U			0.145	0.500	1	10/29/2018 19:00	WG1188131
Bromoform	U			0.186	0.500	1	10/29/2018 19:00	WG1188131
Bromomethane	U	UJ	J0	0.157	2.50	1	10/29/2018 19:00	WG1188131
n-Butylbenzene	U	UJ	J0	0.143	0.500	1	10/29/2018 19:00	WG1188131
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 19:00	WG1188131
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 19:00	WG1188131
Carbon disulfide	0.152	J	J	0.101	0.500	1	10/29/2018 19:00	WG1188131
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 19:00	WG1188131
Chlorobenzene	U			0.140	0.500	1	10/29/2018 19:00	WG1188131
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 19:00	WG1188131
Chloroethane	U	UJ	J0	0.141	2.50	1	10/29/2018 19:00	WG1188131
Chloroform	U			0.0860	0.500	1	10/29/2018 19:00	WG1188131
Chloromethane	U			0.153	1.25	1	11/05/2018 14:51	WG1191566
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 19:00	WG1188131
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 19:00	WG1188131
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	10/29/2018 19:00	WG1188131
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 19:00	WG1188131
Dibromomethane	U			0.117	0.500	1	10/29/2018 19:00	WG1188131
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 19:00	WG1188131
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 19:00	WG1188131
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 19:00	WG1188131
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 14:51	WG1191566
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 19:00	WG1188131
1,2-Dichloroethane	U	UJ	J0	0.108	0.500	1	10/29/2018 19:00	WG1188131
1,1-Dichloroethene	U			0.188	0.500	1	10/29/2018 19:00	WG1188131
cis-1,2-Dichloroethene	1.65	J+	B	0.0933	0.500	1	11/05/2018 14:51	WG1191566
trans-1,2-Dichloroethene	U			0.152	0.500	1	10/29/2018 19:00	WG1188131
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 19:00	WG1188131
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 19:00	WG1188131
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 19:00	WG1188131
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 19:00	WG1188131
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 19:00	WG1188131
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 14:51	WG1191566
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 19:00	WG1188131
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 19:00	WG1188131
Ethylbenzene	U			0.158	0.500	1	10/29/2018 19:00	WG1188131
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 19:00	WG1188131
2-Hexanone	U			0.757	5.00	1	10/29/2018 19:00	WG1188131
n-Hexane	U			0.305	5.00	1	10/29/2018 19:00	WG1188131
Iodomethane	U			0.377	10.0	1	10/29/2018 19:00	WG1188131
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 19:00	WG1188131
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 19:00	WG1188131
2-Butanone (MEK)	2.26	J	J J0	1.28	5.00	1	10/29/2018 19:00	WG1188131

JC 11/12/18

MW-131-102518

Collected date/time: 10/25/18 14:47

SAMPLE RESULTS - 05

L1038864

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	10/29/2018 19:00	WG1188131
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	10/29/2018 19:00	WG1188131
Methyl tert-butyl ether	U			0.102	0.500	1	10/29/2018 19:00	WG1188131
Naphthalene	U	UJ	J0	0.174	2.50	1	10/29/2018 19:00	WG1188131
n-Propylbenzene	U			0.162	0.500	1	10/29/2018 19:00	WG1188131
Styrene	U			0.117	0.500	1	10/29/2018 19:00	WG1188131
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	10/29/2018 19:00	WG1188131
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	10/29/2018 19:00	WG1188131
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	10/29/2018 19:00	WG1188131
Tetrachloroethene	0.895			0.199	0.500	1	10/29/2018 19:00	WG1188131
Toluene	U			0.412	0.500	1	10/29/2018 19:00	WG1188131
1,2,3-Trichlorobenzene	U	UJ	J0	0.164	0.500	1	10/29/2018 19:00	WG1188131
1,2,4-Trichlorobenzene	U			0.355	0.500	1	10/29/2018 19:00	WG1188131
1,1,1-Trichloroethane	U			0.0940	0.500	1	10/29/2018 19:00	WG1188131
1,1,2-Trichloroethane	U			0.186	0.500	1	10/29/2018 19:00	WG1188131
Trichloroethene	0.347	J	J	0.153	0.500	1	10/29/2018 19:00	WG1188131
Trichlorofluoromethane	U			0.130	2.50	1	10/29/2018 19:00	WG1188131
1,2,3-Trichloropropane	U			0.247	2.50	1	10/29/2018 19:00	WG1188131
1,2,4-Trimethylbenzene	U			0.123	0.500	1	10/29/2018 19:00	WG1188131
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	10/29/2018 19:00	WG1188131
1,3,5-Trimethylbenzene	U			0.124	0.500	1	10/29/2018 19:00	WG1188131
Vinyl acetate	U			0.645	5.00	1	10/29/2018 19:00	WG1188131
Vinyl chloride	1.83			0.118	0.500	1	10/29/2018 19:00	WG1188131
Xylenes, Total	U			0.316	1.50	1	10/29/2018 19:00	WG1188131
(S) Toluene-d8	*102*				*80.0-120*		*10/29/2018 19:00*	WG1188131
(S) Toluene-d8	*106*				*80.0-120*		*11/05/2018 14:51*	WG1191566
(S) Dibromofluoromethane	*92.2*				*75.0-120*		*10/29/2018 19:00*	WG1188131
(S) Dibromofluoromethane	*89.1*				*75.0-120*		*11/05/2018 14:51*	WG1191566
(S) 4-Bromofluorobenzene	*95.9*				*77.0-126*		*10/29/2018 19:00*	WG1188131
(S) 4-Bromofluorobenzene	*85.9*				*77.0-126*		*11/05/2018 14:51*	WG1191566

JC 11/12/18

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	47.4	U	B J	31.6	100	1	10/31/2018 21:33	WG1189237
(S) a,a,a-Trifluorotoluene(FID)	*92.9*				*78.0-120*		*10/31/2018 21:33*	WG1189237

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.08	J	J J0	1.05	25.0	1	10/29/2018 19:19	WG1188131
Acrylonitrile	U	UJ	J0	0.873	5.00	1	10/29/2018 19:19	WG1188131
Benzene	U			0.0896	0.500	1	10/29/2018 19:19	WG1188131
Bromobenzene	U			0.133	0.500	1	10/29/2018 19:19	WG1188131
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 19:19	WG1188131
Bromochloromethane	U			0.145	0.500	1	10/29/2018 19:19	WG1188131
Bromoform	U			0.186	0.500	1	10/29/2018 19:19	WG1188131
Bromomethane	U	UJ	J0	0.157	2.50	1	10/29/2018 19:19	WG1188131
n-Butylbenzene	U	UJ	J0	0.143	0.500	1	10/29/2018 19:19	WG1188131
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 19:19	WG1188131
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 19:19	WG1188131
Carbon disulfide	0.156	J	J	0.101	0.500	1	10/29/2018 19:19	WG1188131
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 19:19	WG1188131
Chlorobenzene	U			0.140	0.500	1	10/29/2018 19:19	WG1188131
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 19:19	WG1188131
Chloroethane	U	UJ	J0	0.141	2.50	1	10/29/2018 19:19	WG1188131
Chloroform	U			0.0860	0.500	1	10/29/2018 19:19	WG1188131
Chloromethane	U			0.153	1.25	1	11/05/2018 15:10	WG1191566
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 19:19	WG1188131
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 19:19	WG1188131
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	10/29/2018 19:19	WG1188131
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 19:19	WG1188131
Dibromomethane	U			0.117	0.500	1	10/29/2018 19:19	WG1188131
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 19:19	WG1188131
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 19:19	WG1188131
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 19:19	WG1188131
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 15:10	WG1191566
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 19:19	WG1188131
1,2-Dichloroethane	U	UJ	J0	0.108	0.500	1	10/29/2018 19:19	WG1188131
1,1-Dichloroethene	U			0.188	0.500	1	10/29/2018 19:19	WG1188131
cis-1,2-Dichloroethene	0.454	U	B J	0.0933	0.500	1	11/05/2018 15:10	WG1191566
trans-1,2-Dichloroethene	U			0.152	0.500	1	10/29/2018 19:19	WG1188131
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 19:19	WG1188131
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 19:19	WG1188131
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 19:19	WG1188131
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 19:19	WG1188131
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 19:19	WG1188131
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 15:10	WG1191566
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 19:19	WG1188131
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 19:19	WG1188131
Ethylbenzene	U			0.158	0.500	1	10/29/2018 19:19	WG1188131
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 19:19	WG1188131
2-Hexanone	U			0.757	5.00	1	10/29/2018 19:19	WG1188131
n-Hexane	U			0.305	5.00	1	10/29/2018 19:19	WG1188131
Iodomethane	U			0.377	10.0	1	10/29/2018 19:19	WG1188131
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 19:19	WG1188131
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 19:19	WG1188131
2-Butanone (MEK)	U	UJ	J0	1.28	5.00	1	10/29/2018 19:19	WG1188131

JC 11/12/18

MW-139-102518

Collected date/time: 10/25/18 13:57

SAMPLE RESULTS - 06

L1038864

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 19:19	WG1188131
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 19:19	WG1188131
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 19:19	WG1188131
Naphthalene	U UJ	J0	0.174	2.50	1	10/29/2018 19:19	WG1188131
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 19:19	WG1188131
Styrene	U		0.117	0.500	1	10/29/2018 19:19	WG1188131
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 19:19	WG1188131
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 19:19	WG1188131
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 19:19	WG1188131
Tetrachloroethene	1.29		0.199	0.500	1	10/29/2018 19:19	WG1188131
Toluene	U		0.412	0.500	1	10/29/2018 19:19	WG1188131
1,2,3-Trichlorobenzene	U UJ	J0	0.164	0.500	1	10/29/2018 19:19	WG1188131
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 19:19	WG1188131
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 19:19	WG1188131
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 19:19	WG1188131
Trichloroethene	0.282 J	J	0.153	0.500	1	10/29/2018 19:19	WG1188131
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 19:19	WG1188131
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 19:19	WG1188131
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 19:19	WG1188131
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 19:19	WG1188131
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 19:19	WG1188131
Vinyl acetate	U		0.645	5.00	1	10/29/2018 19:19	WG1188131
Vinyl chloride	U		0.118	0.500	1	10/29/2018 19:19	WG1188131
Xylenes, Total	U		0.316	1.50	1	10/29/2018 19:19	WG1188131
(S) Toluene-d8	*99.4*			*80.0-120*		*10/29/2018 19:19*	WG1188131
(S) Toluene-d8	*108*			*80.0-120*		*11/05/2018 15:10*	WG1191566
(S) Dibromofluoromethane	*93.4*			*75.0-120*		*10/29/2018 19:19*	WG1188131
(S) Dibromofluoromethane	*89.6*			*75.0-120*		*11/05/2018 15:10*	WG1191566
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*		*10/29/2018 19:19*	WG1188131
(S) 4-Bromofluorobenzene	*82.0*			*77.0-126*		*11/05/2018 15:10*	WG1191566

JC 11/12/18

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	48.3	U	B J	31.6	100	1	10/31/2018 21:56	WG1189237
(S) a,a,a-Trifluorotoluene(FID)	*93.0*				*78.0-120*		*10/31/2018 21:56*	WG1189237

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U	UJ	J0	1.05	25.0	1	10/29/2018 19:38	WG1188131	
Acrylonitrile	U	UJ	J0	0.873	5.00	1	10/29/2018 19:38	WG1188131	
Benzene	U			0.0896	0.500	1	10/29/2018 19:38	WG1188131	
Bromobenzene	U			0.133	0.500	1	10/29/2018 19:38	WG1188131	
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 19:38	WG1188131	
Bromochloromethane	U			0.145	0.500	1	10/29/2018 19:38	WG1188131	
Bromoform	U			0.186	0.500	1	10/29/2018 19:38	WG1188131	
Bromomethane	U	UJ	J0	0.157	2.50	1	10/29/2018 19:38	WG1188131	
n-Butylbenzene	U	UJ	J0	0.143	0.500	1	10/29/2018 19:38	WG1188131	
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 19:38	WG1188131	
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 19:38	WG1188131	
Carbon disulfide	U			0.101	0.500	1	10/29/2018 19:38	WG1188131	
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 19:38	WG1188131	
Chlorobenzene	U			0.140	0.500	1	10/29/2018 19:38	WG1188131	
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 19:38	WG1188131	
Chloroethane	U	UJ	J0	0.141	2.50	1	10/29/2018 19:38	WG1188131	
Chloroform	U			0.0860	0.500	1	10/29/2018 19:38	WG1188131	
Chloromethane	U			0.153	1.25	1	11/05/2018 15:30	WG1191566	
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 19:38	WG1188131	
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 19:38	WG1188131	
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	10/29/2018 19:38	WG1188131	
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 19:38	WG1188131	
Dibromomethane	U			0.117	0.500	1	10/29/2018 19:38	WG1188131	
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 19:38	WG1188131	
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 19:38	WG1188131	
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 19:38	WG1188131	
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 15:30	WG1191566	
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 19:38	WG1188131	
1,2-Dichloroethane	U	UJ	J0	0.108	0.500	1	10/29/2018 19:38	WG1188131	
1,1-Dichloroethene	U			0.188	0.500	1	10/29/2018 19:38	WG1188131	
cis-1,2-Dichloroethene	12.1			0.0933	0.500	1	10/29/2018 19:38	WG1188131	
trans-1,2-Dichloroethene	0.254	J	J	0.152	0.500	1	10/29/2018 19:38	WG1188131	
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 19:38	WG1188131	
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 19:38	WG1188131	
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 19:38	WG1188131	
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 19:38	WG1188131	
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 19:38	WG1188131	
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 15:30	WG1191566	
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 19:38	WG1188131	
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 19:38	WG1188131	
Ethylbenzene	U			0.158	0.500	1	10/29/2018 19:38	WG1188131	
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 19:38	WG1188131	
2-Hexanone	U			0.757	5.00	1	10/29/2018 19:38	WG1188131	
n-Hexane	U			0.305	5.00	1	10/29/2018 19:38	WG1188131	
Iodomethane	U			0.377	10.0	1	10/29/2018 19:38	WG1188131	
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 19:38	WG1188131	
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 19:38	WG1188131	JC 11/12/18
2-Butanone (MEK)	U	UJ	J0	1.28	5.00	1	10/29/2018 19:38	WG1188131	

MW-132-102518

Collected date/time: 10/25/18 13:07

SAMPLE RESULTS - 07

L1038864

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 19:38	WG1188131
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 19:38	WG1188131
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 19:38	WG1188131
Naphthalene	U UJ	J0	0.174	2.50	1	10/29/2018 19:38	WG1188131
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 19:38	WG1188131
Styrene	U		0.117	0.500	1	10/29/2018 19:38	WG1188131
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 19:38	WG1188131
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 19:38	WG1188131
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 19:38	WG1188131
Tetrachloroethene	3.53		0.199	0.500	1	10/29/2018 19:38	WG1188131
Toluene	U		0.412	0.500	1	10/29/2018 19:38	WG1188131
1,2,3-Trichlorobenzene	U UJ	J0	0.164	0.500	1	10/29/2018 19:38	WG1188131
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 19:38	WG1188131
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 19:38	WG1188131
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 19:38	WG1188131
Trichloroethene	0.750		0.153	0.500	1	10/29/2018 19:38	WG1188131
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 19:38	WG1188131
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 19:38	WG1188131
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 19:38	WG1188131
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 19:38	WG1188131
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 19:38	WG1188131
Vinyl acetate	U		0.645	5.00	1	10/29/2018 19:38	WG1188131
Vinyl chloride	158		0.118	0.500	1	10/29/2018 19:38	WG1188131
Xylenes, Total	U		0.316	1.50	1	10/29/2018 19:38	WG1188131
(S) Toluene-d8	*101*			*80.0-120*		*10/29/2018 19:38*	WG1188131
(S) Toluene-d8	*103*			*80.0-120*		*11/05/2018 15:30*	WG1191566
(S) Dibromofluoromethane	*94.0*			*75.0-120*		*10/29/2018 19:38*	WG1188131
(S) Dibromofluoromethane	*89.5*			*75.0-120*		*11/05/2018 15:30*	WG1191566
(S) 4-Bromofluorobenzene	*97.7*			*77.0-126*		*10/29/2018 19:38*	WG1188131
(S) 4-Bromofluorobenzene	*87.5*			*77.0-126*		*11/05/2018 15:30*	WG1191566

JC 11/12/18

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	31800		632	2000	20	10/31/2018 22:19	WG1189237
(S) a,a,a-Trifluorotoluene(FID)	*93.4*			*78.0-120*		*10/31/2018 22:19*	WG1189237

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	26.2	625	25	10/29/2018 19:57	WG1188131
Acrylonitrile	U	UJ J0	21.8	125	25	10/29/2018 19:57	WG1188131
Benzene	U		2.24	12.5	25	10/29/2018 19:57	WG1188131
Bromobenzene	U		3.32	12.5	25	10/29/2018 19:57	WG1188131
Bromodichloromethane	U		2.00	12.5	25	10/29/2018 19:57	WG1188131
Bromochloromethane	U		3.62	12.5	25	10/29/2018 19:57	WG1188131
Bromoform	U		4.65	12.5	25	10/29/2018 19:57	WG1188131
Bromomethane	U	UJ J0	3.92	62.5	25	10/29/2018 19:57	WG1188131
n-Butylbenzene	U	UJ J0	3.58	12.5	25	10/29/2018 19:57	WG1188131
sec-Butylbenzene	U		3.35	12.5	25	10/29/2018 19:57	WG1188131
tert-Butylbenzene	U		4.58	12.5	25	10/29/2018 19:57	WG1188131
Carbon disulfide	U		2.52	12.5	25	10/29/2018 19:57	WG1188131
Carbon tetrachloride	U		3.98	12.5	25	10/29/2018 19:57	WG1188131
Chlorobenzene	U		3.50	12.5	25	10/29/2018 19:57	WG1188131
Chlorodibromomethane	U		3.20	12.5	25	10/29/2018 19:57	WG1188131
Chloroethane	U	UJ J0	3.52	62.5	25	10/29/2018 19:57	WG1188131
Chloroform	U		2.15	12.5	25	10/29/2018 19:57	WG1188131
Chloromethane	U		153	1250	1000	11/05/2018 16:10	WG1191566
2-Chlorotoluene	U		2.78	12.5	25	10/29/2018 19:57	WG1188131
4-Chlorotoluene	U		2.43	12.5	25	10/29/2018 19:57	WG1188131
1,2-Dibromo-3-Chloropropane	U	UJ J0	8.12	62.5	25	10/29/2018 19:57	WG1188131
1,2-Dibromoethane	U		4.82	12.5	25	10/29/2018 19:57	WG1188131
Dibromomethane	U		2.92	12.5	25	10/29/2018 19:57	WG1188131
1,2-Dichlorobenzene	U		2.52	12.5	25	10/29/2018 19:57	WG1188131
1,3-Dichlorobenzene	U		3.25	12.5	25	10/29/2018 19:57	WG1188131
1,4-Dichlorobenzene	U		3.02	12.5	25	10/29/2018 19:57	WG1188131
Dichlorodifluoromethane	U		127	2500	1000	11/05/2018 16:10	WG1191566
1,1-Dichloroethane	U		2.85	12.5	25	10/29/2018 19:57	WG1188131
1,2-Dichloroethane	U	UJ J0	2.70	12.5	25	10/29/2018 19:57	WG1188131
1,1-Dichloroethene	167		4.70	12.5	25	10/29/2018 19:57	WG1188131
cis-1,2-Dichloroethene	40400		93.3	500	1000	11/05/2018 16:10	WG1191566
trans-1,2-Dichloroethene	54.4		3.80	12.5	25	10/29/2018 19:57	WG1188131
1,2-Dichloropropane	U		4.75	12.5	25	10/29/2018 19:57	WG1188131
1,1-Dichloropropene	U		3.20	12.5	25	10/29/2018 19:57	WG1188131
1,3-Dichloropropane	U		3.68	25.0	25	10/29/2018 19:57	WG1188131
cis-1,3-Dichloropropene	U		2.44	12.5	25	10/29/2018 19:57	WG1188131
trans-1,3-Dichloropropene	U		5.55	12.5	25	10/29/2018 19:57	WG1188131
trans-1,4-Dichloro-2-butene	U		257	5000	1000	11/05/2018 16:10	WG1191566
2,2-Dichloropropane	U		2.32	12.5	25	10/29/2018 19:57	WG1188131
Di-isopropyl ether	U		2.31	12.5	25	10/29/2018 19:57	WG1188131
Ethylbenzene	U		3.95	12.5	25	10/29/2018 19:57	WG1188131
Hexachloro-1,3-butadiene	U		3.92	25.0	25	10/29/2018 19:57	WG1188131
2-Hexanone	U		18.9	125	25	10/29/2018 19:57	WG1188131
n-Hexane	U		7.62	125	25	10/29/2018 19:57	WG1188131
Iodomethane	U		9.42	250	25	10/29/2018 19:57	WG1188131
Isopropylbenzene	U		3.15	12.5	25	10/29/2018 19:57	WG1188131
p-Isopropyltoluene	U		3.45	12.5	25	10/29/2018 19:57	WG1188131
2-Butanone (MEK)	U	UJ J0	32.0	125	25	10/29/2018 19:57	WG1188131

JC 11/12/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		26.8	62.5	25	10/29/2018 19:57	WG1188131
4-Methyl-2-pentanone (MIBK)	U		20.6	125	25	10/29/2018 19:57	WG1188131
Methyl tert-butyl ether	U		2.55	12.5	25	10/29/2018 19:57	WG1188131
Naphthalene	U	UJ J0	4.35	62.5	25	10/29/2018 19:57	WG1188131
n-Propylbenzene	U		4.05	12.5	25	10/29/2018 19:57	WG1188131
Styrene	U		2.92	12.5	25	10/29/2018 19:57	WG1188131
1,1,1,2-Tetrachloroethane	U		3.00	12.5	25	10/29/2018 19:57	WG1188131
1,1,2,2-Tetrachloroethane	U		3.25	12.5	25	10/29/2018 19:57	WG1188131
1,1,2-Trichlorotrifluoroethane	U		4.10	12.5	25	10/29/2018 19:57	WG1188131
Tetrachloroethene	45900		199	500	1000	11/05/2018 16:10	WG1191566
Toluene	U		10.3	12.5	25	10/29/2018 19:57	WG1188131
1,2,3-Trichlorobenzene	U	UJ J0	4.10	12.5	25	10/29/2018 19:57	WG1188131
1,2,4-Trichlorobenzene	U		8.88	12.5	25	10/29/2018 19:57	WG1188131
1,1,1-Trichloroethane	U		2.35	12.5	25	10/29/2018 19:57	WG1188131
1,1,2-Trichloroethane	U		4.65	12.5	25	10/29/2018 19:57	WG1188131
Trichloroethene	8330		30.6	100	200	11/05/2018 18:09	WG1191566
Trichlorofluoromethane	U		3.25	62.5	25	10/29/2018 19:57	WG1188131
1,2,3-Trichloropropane	U		6.18	62.5	25	10/29/2018 19:57	WG1188131
1,2,4-Trimethylbenzene	U		3.08	12.5	25	10/29/2018 19:57	WG1188131
1,2,3-Trimethylbenzene	U		1.85	12.5	25	10/29/2018 19:57	WG1188131
1,3,5-Trimethylbenzene	U		3.10	12.5	25	10/29/2018 19:57	WG1188131
Vinyl acetate	U		16.1	125	25	10/29/2018 19:57	WG1188131
Vinyl chloride	1170		2.95	12.5	25	10/29/2018 19:57	WG1188131
Xylenes, Total	U		7.90	37.5	25	10/29/2018 19:57	WG1188131
(S) Toluene-d8	*104*			*80.0-120*		*10/29/2018 19:57*	WG1188131
(S) Toluene-d8	*106*			*80.0-120*		*11/05/2018 18:09*	WG1191566
(S) Toluene-d8	*106*			*80.0-120*		*11/05/2018 16:10*	WG1191566
(S) Dibromofluoromethane	*92.4*			*75.0-120*		*10/29/2018 19:57*	WG1188131
(S) Dibromofluoromethane	*92.1*			*75.0-120*		*11/05/2018 16:10*	WG1191566
(S) Dibromofluoromethane	*90.8*			*75.0-120*		*11/05/2018 18:09*	WG1191566
(S) 4-Bromofluorobenzene	*96.7*			*77.0-126*		*10/29/2018 19:57*	WG1188131
(S) 4-Bromofluorobenzene	*83.3*			*77.0-126*		*11/05/2018 18:09*	WG1191566
(S) 4-Bromofluorobenzene	*85.6*			*77.0-126*		*11/05/2018 16:10*	WG1191566

Sample Narrative:

L1038864-08 WG1188131, WG1191566: Not all compounds reportable at lower dilution.

L1038864-08 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

JC 11/12/18

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	14600		158	500	5	10/31/2018 22:42	WG1189237
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*		*10/31/2018 22:42*	WG1189237

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	9.83	J J J0	1.05	25.0	1	10/29/2018 20:17	WG1188131
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/29/2018 20:17	WG1188131
Benzene	0.413	J J	0.0896	0.500	1	10/29/2018 20:17	WG1188131
Bromobenzene	U		0.133	0.500	1	10/29/2018 20:17	WG1188131
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 20:17	WG1188131
Bromochloromethane	U		0.145	0.500	1	10/29/2018 20:17	WG1188131
Bromoform	U		0.186	0.500	1	10/29/2018 20:17	WG1188131
Bromomethane	U	UJ J0	0.157	2.50	1	10/29/2018 20:17	WG1188131
n-Butylbenzene	U	UJ J0	0.143	0.500	1	10/29/2018 20:17	WG1188131
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 20:17	WG1188131
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 20:17	WG1188131
Carbon disulfide	1.76		0.101	0.500	1	10/29/2018 20:17	WG1188131
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 20:17	WG1188131
Chlorobenzene	U		0.140	0.500	1	10/29/2018 20:17	WG1188131
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 20:17	WG1188131
Chloroethane	U	UJ J0	0.141	2.50	1	10/29/2018 20:17	WG1188131
Chloroform	0.591		0.0860	0.500	1	10/29/2018 20:17	WG1188131
Chloromethane	U		76.5	625	500	11/05/2018 16:30	WG1191566
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 20:17	WG1188131
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 20:17	WG1188131
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.325	2.50	1	10/29/2018 20:17	WG1188131
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 20:17	WG1188131
Dibromomethane	U		0.117	0.500	1	10/29/2018 20:17	WG1188131
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 20:17	WG1188131
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 20:17	WG1188131
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 20:17	WG1188131
Dichlorodifluoromethane	U		63.5	1250	500	11/05/2018 16:30	WG1191566
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 20:17	WG1188131
1,2-Dichloroethane	U	UJ J0	0.108	0.500	1	10/29/2018 20:17	WG1188131
1,1-Dichloroethene	61.9		0.188	0.500	1	10/29/2018 20:17	WG1188131
cis-1,2-Dichloroethene	17700		46.6	250	500	11/05/2018 16:30	WG1191566
trans-1,2-Dichloroethene	49.7		0.152	0.500	1	10/29/2018 20:17	WG1188131
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 20:17	WG1188131
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 20:17	WG1188131
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 20:17	WG1188131
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 20:17	WG1188131
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 20:17	WG1188131
trans-1,4-Dichloro-2-butene	U		128	2500	500	11/05/2018 16:30	WG1191566
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 20:17	WG1188131
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 20:17	WG1188131
Ethylbenzene	0.226	J J	0.158	0.500	1	10/29/2018 20:17	WG1188131
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 20:17	WG1188131
2-Hexanone	U		0.757	5.00	1	10/29/2018 20:17	WG1188131
n-Hexane	U		0.305	5.00	1	10/29/2018 20:17	WG1188131
Iodomethane	U		0.377	10.0	1	10/29/2018 20:17	WG1188131
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 20:17	WG1188131
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 20:17	WG1188131
2-Butanone (MEK)	3.56	J J J0	1.28	5.00	1	10/29/2018 20:17	WG1188131

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	10/29/2018 20:17	WG1188131
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	10/29/2018 20:17	WG1188131
Methyl tert-butyl ether	U			0.102	0.500	1	10/29/2018 20:17	WG1188131
Naphthalene	0.209	J	J J0	0.174	2.50	1	10/29/2018 20:17	WG1188131
n-Propylbenzene	U			0.162	0.500	1	10/29/2018 20:17	WG1188131
Styrene	U			0.117	0.500	1	10/29/2018 20:17	WG1188131
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	10/29/2018 20:17	WG1188131
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	10/29/2018 20:17	WG1188131
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	10/29/2018 20:17	WG1188131
Tetrachloroethene	15200			99.5	250	500	11/05/2018 16:30	WG1191566
Toluene	2.53			0.412	0.500	1	10/29/2018 20:17	WG1188131
1,2,3-Trichlorobenzene	U	UJ	J0	0.164	0.500	1	10/29/2018 20:17	WG1188131
1,2,4-Trichlorobenzene	U			0.355	0.500	1	10/29/2018 20:17	WG1188131
1,1,1-Trichloroethane	U			0.0940	0.500	1	10/29/2018 20:17	WG1188131
1,1,2-Trichloroethane	U			0.186	0.500	1	10/29/2018 20:17	WG1188131
Trichloroethene	8800			76.5	250	500	11/05/2018 16:30	WG1191566
Trichlorofluoromethane	U			0.130	2.50	1	10/29/2018 20:17	WG1188131
1,2,3-Trichloropropane	U			0.247	2.50	1	10/29/2018 20:17	WG1188131
1,2,4-Trimethylbenzene	0.576			0.123	0.500	1	10/29/2018 20:17	WG1188131
1,2,3-Trimethylbenzene	0.317	J	J	0.0739	0.500	1	10/29/2018 20:17	WG1188131
1,3,5-Trimethylbenzene	0.162	J	J	0.124	0.500	1	10/29/2018 20:17	WG1188131
Vinyl acetate	U			0.645	5.00	1	10/29/2018 20:17	WG1188131
Vinyl chloride	1430			59.0	250	500	11/05/2018 16:30	WG1191566
Xylenes, Total	1.13	J	J	0.316	1.50	1	10/29/2018 20:17	WG1188131
(S) Toluene-d8	*104*				*80.0-120*		*10/29/2018 20:17*	WG1188131
(S) Toluene-d8	*107*				*80.0-120*		*11/05/2018 16:30*	WG1191566
(S) Dibromofluoromethane	*92.0*				*75.0-120*		*10/29/2018 20:17*	WG1188131
(S) Dibromofluoromethane	*89.4*				*75.0-120*		*11/05/2018 16:30*	WG1191566
(S) 4-Bromofluorobenzene	*98.8*				*77.0-126*		*10/29/2018 20:17*	WG1188131
(S) 4-Bromofluorobenzene	*84.2*				*77.0-126*		*11/05/2018 16:30*	WG1191566

Sample Narrative:

L1038864-09 WG1188131, WG1191566: Not all compounds reportable at lower dilution.

L1038864-09 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	4570		31.6	100	1	10/31/2018 23:04	WG1189237
(S) a,a,a-Trifluorotoluene(FID)	*95.2*			*78.0-120*		*10/31/2018 23:04*	WG1189237

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.71 J	J J0	1.05	25.0	1	10/29/2018 20:36	WG1188131
Acrylonitrile	U UJ	J0	0.873	5.00	1	10/29/2018 20:36	WG1188131
Benzene	U		0.0896	0.500	1	10/29/2018 20:36	WG1188131
Bromobenzene	U		0.133	0.500	1	10/29/2018 20:36	WG1188131
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 20:36	WG1188131
Bromochloromethane	U		0.145	0.500	1	10/29/2018 20:36	WG1188131
Bromoform	U		0.186	0.500	1	10/29/2018 20:36	WG1188131
Bromomethane	U UJ	J0	0.157	2.50	1	10/29/2018 20:36	WG1188131
n-Butylbenzene	U UJ	J0	0.143	0.500	1	10/29/2018 20:36	WG1188131
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 20:36	WG1188131
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 20:36	WG1188131
Carbon disulfide	0.181 J	J	0.101	0.500	1	10/29/2018 20:36	WG1188131
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 20:36	WG1188131
Chlorobenzene	U		0.140	0.500	1	10/29/2018 20:36	WG1188131
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 20:36	WG1188131
Chloroethane	14.2 J	J0	0.141	2.50	1	10/29/2018 20:36	WG1188131
Chloroform	0.395 J	J	0.0860	0.500	1	10/29/2018 20:36	WG1188131
Chloromethane	U		30.6	250	200	11/05/2018 16:50	WG1191566
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 20:36	WG1188131
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 20:36	WG1188131
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.325	2.50	1	10/29/2018 20:36	WG1188131
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 20:36	WG1188131
Dibromomethane	U		0.117	0.500	1	10/29/2018 20:36	WG1188131
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 20:36	WG1188131
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 20:36	WG1188131
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 20:36	WG1188131
Dichlorodifluoromethane	U		25.4	500	200	11/05/2018 16:50	WG1191566
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 20:36	WG1188131
1,2-Dichloroethane	U UJ	J0	0.108	0.500	1	10/29/2018 20:36	WG1188131
1,1-Dichloroethene	25.7		0.188	0.500	1	10/29/2018 20:36	WG1188131
cis-1,2-Dichloroethene	3320		18.7	100	200	11/05/2018 16:50	WG1191566
trans-1,2-Dichloroethene	15.3		0.152	0.500	1	10/29/2018 20:36	WG1188131
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 20:36	WG1188131
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 20:36	WG1188131
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 20:36	WG1188131
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 20:36	WG1188131
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 20:36	WG1188131
trans-1,4-Dichloro-2-butene	U		51.4	1000	200	11/05/2018 16:50	WG1191566
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 20:36	WG1188131
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 20:36	WG1188131
Ethylbenzene	U		0.158	0.500	1	10/29/2018 20:36	WG1188131
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 20:36	WG1188131
2-Hexanone	U		0.757	5.00	1	10/29/2018 20:36	WG1188131
n-Hexane	U		0.305	5.00	1	10/29/2018 20:36	WG1188131
Iodomethane	U		0.377	10.0	1	10/29/2018 20:36	WG1188131
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 20:36	WG1188131
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 20:36	WG1188131
2-Butanone (MEK)	U UJ	J0	1.28	5.00	1	10/29/2018 20:36	WG1188131

JC 11/12/18

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	10/29/2018 20:36	WG1188131
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 20:36	WG1188131
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 20:36	WG1188131
Naphthalene	U	UJ J0	0.174	2.50	1	10/29/2018 20:36	WG1188131
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 20:36	WG1188131
Styrene	U		0.117	0.500	1	10/29/2018 20:36	WG1188131
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 20:36	WG1188131
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 20:36	WG1188131
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 20:36	WG1188131
Tetrachloroethene	6100		39.8	100	200	11/05/2018 16:50	WG1191566
Toluene	U		0.412	0.500	1	10/29/2018 20:36	WG1188131
1,2,3-Trichlorobenzene	U	UJ J0	0.164	0.500	1	10/29/2018 20:36	WG1188131
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 20:36	WG1188131
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 20:36	WG1188131
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 20:36	WG1188131
Trichloroethene	2720		30.6	100	200	11/05/2018 16:50	WG1191566
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 20:36	WG1188131
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 20:36	WG1188131
1,2,4-Trimethylbenzene	0.139	J J	0.123	0.500	1	10/29/2018 20:36	WG1188131
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 20:36	WG1188131
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 20:36	WG1188131
Vinyl acetate	U		0.645	5.00	1	10/29/2018 20:36	WG1188131
Vinyl chloride	100		0.118	0.500	1	10/29/2018 20:36	WG1188131
Xylenes, Total	U		0.316	1.50	1	10/29/2018 20:36	WG1188131
(S) Toluene-d8	*103*			*80.0-120*		*10/29/2018 20:36*	WG1188131
(S) Toluene-d8	*106*			*80.0-120*		*11/05/2018 16:50*	WG1191566
(S) Dibromofluoromethane	*90.4*			*75.0-120*		*10/29/2018 20:36*	WG1188131
(S) Dibromofluoromethane	*89.8*			*75.0-120*		*11/05/2018 16:50*	WG1191566
(S) 4-Bromofluorobenzene	*98.5*			*77.0-126*		*10/29/2018 20:36*	WG1188131
(S) 4-Bromofluorobenzene	*86.6*			*77.0-126*		*11/05/2018 16:50*	WG1191566

Sample Narrative:

L1038864-10 WG1188131, WG1191566: Not all compounds reportable at lower dilution.

L1038864-10 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

JC 11/12/18

MW-134-102518
Collected date/time: 10/25/18 12:00

SAMPLE RESULTS - 01

L1038867

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	38.2 U	B J	31.6	100	1	11/01/2018 17:54	WG1189621
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*78.0-120*		*11/01/2018 17:54*	WG1189621

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	UJ J0	1.05	25.0	1	10/29/2018 22:11	WG1188131
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/29/2018 22:11	WG1188131
Benzene	U		0.0896	0.500	1	11/05/2018 15:29	WG1191602
Bromobenzene	U		0.133	0.500	1	10/29/2018 22:11	WG1188131
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 22:11	WG1188131
Bromochloromethane	U		0.145	0.500	1	10/29/2018 22:11	WG1188131
Bromoform	U		0.186	0.500	1	10/29/2018 22:11	WG1188131
Bromomethane	U	UJ J0	0.157	2.50	1	10/29/2018 22:11	WG1188131
n-Butylbenzene	U	UJ J0	0.143	0.500	1	10/29/2018 22:11	WG1188131
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 22:11	WG1188131
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 22:11	WG1188131
Carbon disulfide	U		0.101	0.500	1	10/29/2018 22:11	WG1188131
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 22:11	WG1188131
Chlorobenzene	U		0.140	0.500	1	10/29/2018 22:11	WG1188131
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 22:11	WG1188131
Chloroethane	U	UJ J0	0.141	2.50	1	10/29/2018 22:11	WG1188131
Chloroform	U		0.0860	0.500	1	10/29/2018 22:11	WG1188131
Chloromethane	U		0.153	1.25	1	11/05/2018 15:29	WG1191602
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 22:11	WG1188131
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 22:11	WG1188131
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.325	2.50	1	10/29/2018 22:11	WG1188131
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 22:11	WG1188131
Dibromomethane	U		0.117	0.500	1	10/29/2018 22:11	WG1188131
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 22:11	WG1188131
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 22:11	WG1188131
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 22:11	WG1188131
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 15:29	WG1191602
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 22:11	WG1188131
1,2-Dichloroethane	U	UJ J0	0.108	0.500	1	10/29/2018 22:11	WG1188131
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 22:11	WG1188131
cis-1,2-Dichloroethene	U		0.0933	0.500	1	11/05/2018 15:29	WG1191602
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 22:11	WG1188131
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 22:11	WG1188131
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 22:11	WG1188131
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 22:11	WG1188131
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 22:11	WG1188131
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 22:11	WG1188131
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 15:29	WG1191602
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 22:11	WG1188131
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 22:11	WG1188131
Ethylbenzene	U		0.158	0.500	1	11/05/2018 15:29	WG1191602
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 22:11	WG1188131
2-Hexanone	U		0.757	5.00	1	10/29/2018 22:11	WG1188131
n-Hexane	U		0.305	5.00	1	10/29/2018 22:11	WG1188131
Iodomethane	U		0.377	10.0	1	10/29/2018 22:11	WG1188131
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 22:11	WG1188131
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 22:11	WG1188131
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2018 22:11	WG1188131

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 22:11	WG1188131
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 22:11	WG1188131
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 22:11	WG1188131
Naphthalene	U UJ	J0	0.174	2.50	1	11/05/2018 15:29	WG1191602
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 22:11	WG1188131
Styrene	U		0.117	0.500	1	10/29/2018 22:11	WG1188131
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 22:11	WG1188131
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 22:11	WG1188131
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 22:11	WG1188131
Tetrachloroethene	U		0.199	0.500	1	11/05/2018 15:29	WG1191602
Toluene	U		0.412	0.500	1	11/05/2018 15:29	WG1191602
1,2,3-Trichlorobenzene	U UJ	J0	0.164	0.500	1	10/29/2018 22:11	WG1188131
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 22:11	WG1188131
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 22:11	WG1188131
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 22:11	WG1188131
Trichloroethene	U		0.153	0.500	1	11/05/2018 15:29	WG1191602
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 22:11	WG1188131
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 22:11	WG1188131
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/05/2018 15:29	WG1191602
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/05/2018 15:29	WG1191602
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/05/2018 15:29	WG1191602
Vinyl acetate	U		0.645	5.00	1	10/29/2018 22:11	WG1188131
Vinyl chloride	20.9		0.118	0.500	1	10/29/2018 22:11	WG1188131
Xylenes, Total	U		0.316	1.50	1	11/05/2018 15:29	WG1191602
(S) Toluene-d8	*103*			*80.0-120*		*10/29/2018 22:11*	WG1188131
(S) Toluene-d8	*105*			*80.0-120*		*11/05/2018 15:29*	WG1191602
(S) Dibromofluoromethane	*90.8*			*75.0-120*		*10/29/2018 22:11*	WG1188131
(S) Dibromofluoromethane	*105*			*75.0-120*		*11/05/2018 15:29*	WG1191602
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*10/29/2018 22:11*	WG1188131
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*11/05/2018 15:29*	WG1191602

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/01/2018 18:17	WG1189621
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*78.0-120*		*11/01/2018 18:17*	WG1189621

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/29/2018 22:31	WG1188131
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/29/2018 22:31	WG1188131
Benzene	U		0.0896	0.500	1	11/05/2018 15:50	WG1191602
Bromobenzene	U		0.133	0.500	1	10/29/2018 22:31	WG1188131
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 22:31	WG1188131
Bromochloromethane	U		0.145	0.500	1	10/29/2018 22:31	WG1188131
Bromoform	U		0.186	0.500	1	10/29/2018 22:31	WG1188131
Bromomethane	U	UJ J0	0.157	2.50	1	10/29/2018 22:31	WG1188131
n-Butylbenzene	U	UJ J0	0.143	0.500	1	10/29/2018 22:31	WG1188131
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 22:31	WG1188131
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 22:31	WG1188131
Carbon disulfide	0.317	J J	0.101	0.500	1	10/29/2018 22:31	WG1188131
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 22:31	WG1188131
Chlorobenzene	U		0.140	0.500	1	10/29/2018 22:31	WG1188131
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 22:31	WG1188131
Chloroethane	U	UJ J0	0.141	2.50	1	10/29/2018 22:31	WG1188131
Chloroform	U		0.0860	0.500	1	10/29/2018 22:31	WG1188131
Chloromethane	U		0.153	1.25	1	11/05/2018 15:50	WG1191602
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 22:31	WG1188131
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 22:31	WG1188131
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.325	2.50	1	10/29/2018 22:31	WG1188131
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 22:31	WG1188131
Dibromomethane	U		0.117	0.500	1	10/29/2018 22:31	WG1188131
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 22:31	WG1188131
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 22:31	WG1188131
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 22:31	WG1188131
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 15:50	WG1191602
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 22:31	WG1188131
1,2-Dichloroethane	U	UJ J0	0.108	0.500	1	10/29/2018 22:31	WG1188131
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 22:31	WG1188131
cis-1,2-Dichloroethene	3.10		0.0933	0.500	1	11/05/2018 15:50	WG1191602
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 22:31	WG1188131
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 22:31	WG1188131
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 22:31	WG1188131
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 22:31	WG1188131
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 22:31	WG1188131
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 22:31	WG1188131
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 15:50	WG1191602
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 22:31	WG1188131
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 22:31	WG1188131
Ethylbenzene	U		0.158	0.500	1	10/29/2018 22:31	WG1188131
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 22:31	WG1188131
2-Hexanone	U		0.757	5.00	1	10/29/2018 22:31	WG1188131
n-Hexane	U		0.305	5.00	1	10/29/2018 22:31	WG1188131
Iodomethane	U		0.377	10.0	1	10/29/2018 22:31	WG1188131
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 22:31	WG1188131
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 22:31	WG1188131
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2018 22:31	WG1188131

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 22:31	WG1188131
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 22:31	WG1188131
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 22:31	WG1188131
Naphthalene	U	UJ J0	0.174	2.50	1	11/05/2018 15:50	WG1191602
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 22:31	WG1188131
Styrene	U		0.117	0.500	1	10/29/2018 22:31	WG1188131
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 22:31	WG1188131
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 22:31	WG1188131
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 22:31	WG1188131
Tetrachloroethene	U		0.199	0.500	1	11/05/2018 15:50	WG1191602
Toluene	U		0.412	0.500	1	11/05/2018 15:50	WG1191602
1,2,3-Trichlorobenzene	U	UJ J0	0.164	0.500	1	10/29/2018 22:31	WG1188131
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 22:31	WG1188131
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 22:31	WG1188131
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 22:31	WG1188131
Trichloroethene	U		0.153	0.500	1	11/05/2018 15:50	WG1191602
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 22:31	WG1188131
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 22:31	WG1188131
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/05/2018 15:50	WG1191602
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 22:31	WG1188131
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 22:31	WG1188131
Vinyl acetate	U		0.645	5.00	1	10/29/2018 22:31	WG1188131
Vinyl chloride	U		0.118	0.500	1	10/29/2018 22:31	WG1188131
Xylenes, Total	U		0.316	1.50	1	11/05/2018 15:50	WG1191602
(S) Toluene-d8	*103*			*80.0-120*		*10/29/2018 22:31*	WG1188131
(S) Toluene-d8	*106*			*80.0-120*		*11/05/2018 15:50*	WG1191602
(S) Dibromofluoromethane	*91.9*			*75.0-120*		*10/29/2018 22:31*	WG1188131
(S) Dibromofluoromethane	*103*			*75.0-120*		*11/05/2018 15:50*	WG1191602
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*10/29/2018 22:31*	WG1188131
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*11/05/2018 15:50*	WG1191602

JC 11/12/18

MW-104-102618

Collected date/time: 10/26/18 08:45

SAMPLE RESULTS - 03

L1038867

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1570		31.6	100	1	11/01/2018 18:39	WG1189621
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*78.0-120*		*11/01/2018 18:39*	WG1189621

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.91	U	J J0	1.05	25.0	1	10/29/2018 22:50	WG1188131
Acrylonitrile	U	UJ	J0	0.873	5.00	1	10/29/2018 22:50	WG1188131
Benzene	U			0.0896	0.500	1	11/05/2018 16:10	WG1191602
Bromobenzene	U			0.133	0.500	1	10/29/2018 22:50	WG1188131
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 22:50	WG1188131
Bromochloromethane	U			0.145	0.500	1	10/29/2018 22:50	WG1188131
Bromoform	U			0.186	0.500	1	10/29/2018 22:50	WG1188131
Bromomethane	U	UJ	J0	0.157	2.50	1	10/29/2018 22:50	WG1188131
n-Butylbenzene	U	UJ	J0	0.143	0.500	1	10/29/2018 22:50	WG1188131
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 22:50	WG1188131
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 22:50	WG1188131
Carbon disulfide	0.675			0.101	0.500	1	10/29/2018 22:50	WG1188131
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 22:50	WG1188131
Chlorobenzene	U			0.140	0.500	1	10/29/2018 22:50	WG1188131
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 22:50	WG1188131
Chloroethane	U	UJ	J0	0.141	2.50	1	10/29/2018 22:50	WG1188131
Chloroform	U			0.0860	0.500	1	10/29/2018 22:50	WG1188131
Chloromethane	U			0.153	1.25	1	11/05/2018 16:10	WG1191602
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 22:50	WG1188131
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 22:50	WG1188131
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	10/29/2018 22:50	WG1188131
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 22:50	WG1188131
Dibromomethane	U			0.117	0.500	1	10/29/2018 22:50	WG1188131
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 22:50	WG1188131
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 22:50	WG1188131
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 22:50	WG1188131
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 16:10	WG1191602
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 22:50	WG1188131
1,2-Dichloroethane	U	UJ	J0	0.108	0.500	1	10/29/2018 22:50	WG1188131
1,1-Dichloroethene	0.374	J	J	0.188	0.500	1	10/29/2018 22:50	WG1188131
cis-1,2-Dichloroethene	71.2			0.0933	0.500	1	10/29/2018 22:50	WG1188131
trans-1,2-Dichloroethene	0.257	J	J	0.152	0.500	1	10/29/2018 22:50	WG1188131
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 22:50	WG1188131
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 22:50	WG1188131
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 22:50	WG1188131
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 22:50	WG1188131
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 22:50	WG1188131
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 16:10	WG1191602
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 22:50	WG1188131
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 22:50	WG1188131
Ethylbenzene	U			0.158	0.500	1	10/29/2018 22:50	WG1188131
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 22:50	WG1188131
2-Hexanone	U			0.757	5.00	1	10/29/2018 22:50	WG1188131
n-Hexane	U			0.305	5.00	1	10/29/2018 22:50	WG1188131
Iodomethane	U			0.377	10.0	1	10/29/2018 22:50	WG1188131
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 22:50	WG1188131
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 22:50	WG1188131
2-Butanone (MEK)	U	UJ	J0	1.28	5.00	1	10/29/2018 22:50	WG1188131

JC 11/12/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 22:50	WG1188131
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 22:50	WG1188131
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 22:50	WG1188131
Naphthalene	U UJ	J0	0.174	2.50	1	11/05/2018 16:10	WG1191602
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 22:50	WG1188131
Styrene	U		0.117	0.500	1	10/29/2018 22:50	WG1188131
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 22:50	WG1188131
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 22:50	WG1188131
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 22:50	WG1188131
Tetrachloroethene	1.87 J+		0.199	0.500	1	10/29/2018 22:50	WG1188131
Toluene	0.618 J+		0.412	0.500	1	11/05/2018 16:10	WG1191602
1,2,3-Trichlorobenzene	U UJ	J0	0.164	0.500	1	10/29/2018 22:50	WG1188131
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 22:50	WG1188131
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 22:50	WG1188131
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 22:50	WG1188131
Trichloroethene	2.94 J+		0.153	0.500	1	10/29/2018 22:50	WG1188131
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 22:50	WG1188131
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 22:50	WG1188131
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 22:50	WG1188131
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 22:50	WG1188131
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 22:50	WG1188131
Vinyl acetate	U		0.645	5.00	1	10/29/2018 22:50	WG1188131
Vinyl chloride	43.5		0.118	0.500	1	10/29/2018 22:50	WG1188131
Xylenes, Total	U		0.316	1.50	1	11/05/2018 16:10	WG1191602
(S) Toluene-d8	*103*			*80.0-120*		*10/29/2018 22:50*	WG1188131
(S) Toluene-d8	*104*			*80.0-120*		*11/05/2018 16:10*	WG1191602
(S) Dibromofluoromethane	*92.2*			*75.0-120*		*10/29/2018 22:50*	WG1188131
(S) Dibromofluoromethane	*106*			*75.0-120*		*11/05/2018 16:10*	WG1191602
(S) 4-Bromofluorobenzene	*95.3*			*77.0-126*		*10/29/2018 22:50*	WG1188131
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*11/05/2018 16:10*	WG1191602

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Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	458		31.6	100	1	11/01/2018 19:02	WG1189621
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*78.0-120*		*11/01/2018 19:02*	WG1189621

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Acetone	1.14	U	J J0	1.05	25.0	1	10/29/2018 23:10	WG1188131
Acrylonitrile	U	SH	J0	0.873	5.00	1	10/29/2018 23:10	WG1188131
Benzene	U			0.0896	0.500	1	11/05/2018 16:30	WG1191602
Bromobenzene	U			0.133	0.500	1	10/29/2018 23:10	WG1188131
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 23:10	WG1188131
Bromochloromethane	U			0.145	0.500	1	10/29/2018 23:10	WG1188131
Bromoform	U			0.186	0.500	1	10/29/2018 23:10	WG1188131
Bromomethane	U	UJ	J0	0.157	2.50	1	10/29/2018 23:10	WG1188131
n-Butylbenzene	U		J0	0.143	0.500	1	10/29/2018 23:10	WG1188131
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 23:10	WG1188131
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 23:10	WG1188131
Carbon disulfide	0.205	J	J	0.101	0.500	1	10/29/2018 23:10	WG1188131
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 23:10	WG1188131
Chlorobenzene	U			0.140	0.500	1	10/29/2018 23:10	WG1188131
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 23:10	WG1188131
Chloroethane	U	UJ	J0	0.141	2.50	1	10/29/2018 23:10	WG1188131
Chloroform	U			0.0860	0.500	1	10/29/2018 23:10	WG1188131
Chloromethane	U			0.153	1.25	1	11/05/2018 16:30	WG1191602
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 23:10	WG1188131
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 23:10	WG1188131
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	10/29/2018 23:10	WG1188131
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 23:10	WG1188131
Dibromomethane	U			0.117	0.500	1	10/29/2018 23:10	WG1188131
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 23:10	WG1188131
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 23:10	WG1188131
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 23:10	WG1188131
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 16:30	WG1191602
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 23:10	WG1188131
1,2-Dichloroethane	U	UJ	J0	0.108	0.500	1	10/29/2018 23:10	WG1188131
1,1-Dichloroethene	0.619			0.188	0.500	1	10/29/2018 23:10	WG1188131
cis-1,2-Dichloroethene	7.94			0.0933	0.500	1	10/29/2018 23:10	WG1188131
trans-1,2-Dichloroethene	0.257	J	J	0.152	0.500	1	10/29/2018 23:10	WG1188131
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 23:10	WG1188131
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 23:10	WG1188131
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 23:10	WG1188131
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 23:10	WG1188131
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 23:10	WG1188131
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 16:30	WG1191602
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 23:10	WG1188131
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 23:10	WG1188131
Ethylbenzene	U			0.158	0.500	1	10/29/2018 23:10	WG1188131
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 23:10	WG1188131
2-Hexanone	U			0.757	5.00	1	10/29/2018 23:10	WG1188131
n-Hexane	U			0.305	5.00	1	10/29/2018 23:10	WG1188131
Iodomethane	U			0.377	10.0	1	10/29/2018 23:10	WG1188131
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 23:10	WG1188131
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 23:10	WG1188131
2-Butanone (MEK)	U	UJ	J0	1.28	5.00	1	10/29/2018 23:10	WG1188131

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MW-133-102618
Collected date/time: 10/26/18 11:05

SAMPLE RESULTS - 04

L1038867

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	10/29/2018 23:10	WG1188131
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	10/29/2018 23:10	WG1188131
Methyl tert-butyl ether	U			0.102	0.500	1	10/29/2018 23:10	WG1188131
Naphthalene	0.411	J	J J0	0.174	2.50	1	10/29/2018 23:10	WG1188131
n-Propylbenzene	U			0.162	0.500	1	10/29/2018 23:10	WG1188131
Styrene	U			0.117	0.500	1	10/29/2018 23:10	WG1188131
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	10/29/2018 23:10	WG1188131
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	10/29/2018 23:10	WG1188131
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	10/29/2018 23:10	WG1188131
Tetrachloroethene	1.92	J+		0.199	0.500	1	10/29/2018 23:10	WG1188131
Toluene	U			0.412	0.500	1	11/05/2018 16:30	WG1191602
1,2,3-Trichlorobenzene	U	UJ	J0	0.164	0.500	1	10/29/2018 23:10	WG1188131
1,2,4-Trichlorobenzene	U			0.355	0.500	1	10/29/2018 23:10	WG1188131
1,1,1-Trichloroethane	U			0.0940	0.500	1	10/29/2018 23:10	WG1188131
1,1,2-Trichloroethane	U			0.186	0.500	1	10/29/2018 23:10	WG1188131
Trichloroethene	1.63	J+		0.153	0.500	1	10/29/2018 23:10	WG1188131
Trichlorofluoromethane	U			0.130	2.50	1	10/29/2018 23:10	WG1188131
1,2,3-Trichloropropane	U			0.247	2.50	1	10/29/2018 23:10	WG1188131
1,2,4-Trimethylbenzene	U			0.123	0.500	1	10/29/2018 23:10	WG1188131
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	10/29/2018 23:10	WG1188131
1,3,5-Trimethylbenzene	U			0.124	0.500	1	10/29/2018 23:10	WG1188131
Vinyl acetate	U			0.645	5.00	1	10/29/2018 23:10	WG1188131
Vinyl chloride	3.43			0.118	0.500	1	10/29/2018 23:10	WG1188131
Xylenes, Total	U			0.316	1.50	1	10/29/2018 23:10	WG1188131
(S) Toluene-d8	*103*				*80.0-120*		*10/29/2018 23:10*	WG1188131
(S) Toluene-d8	*106*				*80.0-120*		*11/05/2018 16:30*	WG1191602
(S) Dibromofluoromethane	*91.7*				*75.0-120*		*10/29/2018 23:10*	WG1188131
(S) Dibromofluoromethane	*107*				*75.0-120*		*11/05/2018 16:30*	WG1191602
(S) 4-Bromofluorobenzene	*95.7*				*77.0-126*		*10/29/2018 23:10*	WG1188131
(S) 4-Bromofluorobenzene	*108*				*77.0-126*		*11/05/2018 16:30*	WG1191602

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	86.9	U	B J	31.6	100	1	11/01/2018 19:25	WG1189621
(S) a,a,a-Trifluorotoluene(FID)	*96.8*				*78.0-120*		*11/01/2018 19:25*	WG1189621

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ	J0	1.05	25.0	1	10/29/2018 23:29	WG1188131
Acrylonitrile	U	UJ	J0	0.873	5.00	1	10/29/2018 23:29	WG1188131
Benzene	U			0.0896	0.500	1	11/05/2018 16:51	WG1191602
Bromobenzene	U			0.133	0.500	1	10/29/2018 23:29	WG1188131
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 23:29	WG1188131
Bromochloromethane	U			0.145	0.500	1	10/29/2018 23:29	WG1188131
Bromoform	U			0.186	0.500	1	10/29/2018 23:29	WG1188131
Bromomethane	U	UJ	J0	0.157	2.50	1	10/29/2018 23:29	WG1188131
n-Butylbenzene	U	UJ	J0	0.143	0.500	1	10/29/2018 23:29	WG1188131
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 23:29	WG1188131
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 23:29	WG1188131
Carbon disulfide	0.282	J	J	0.101	0.500	1	10/29/2018 23:29	WG1188131
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 23:29	WG1188131
Chlorobenzene	U			0.140	0.500	1	10/29/2018 23:29	WG1188131
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 23:29	WG1188131
Chloroethane	U	UJ	J0	0.141	2.50	1	10/29/2018 23:29	WG1188131
Chloroform	U			0.0860	0.500	1	10/29/2018 23:29	WG1188131
Chloromethane	U			0.153	1.25	1	11/05/2018 16:51	WG1191602
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 23:29	WG1188131
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 23:29	WG1188131
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	10/29/2018 23:29	WG1188131
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 23:29	WG1188131
Dibromomethane	U			0.117	0.500	1	10/29/2018 23:29	WG1188131
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 23:29	WG1188131
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 23:29	WG1188131
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 23:29	WG1188131
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 16:51	WG1191602
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 23:29	WG1188131
1,2-Dichloroethane	U	UJ	J0	0.108	0.500	1	10/29/2018 23:29	WG1188131
1,1-Dichloroethene	U			0.188	0.500	1	10/29/2018 23:29	WG1188131
cis-1,2-Dichloroethene	0.893	J+		0.0933	0.500	1	10/29/2018 23:29	WG1188131
trans-1,2-Dichloroethene	U			0.152	0.500	1	10/29/2018 23:29	WG1188131
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 23:29	WG1188131
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 23:29	WG1188131
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 23:29	WG1188131
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 23:29	WG1188131
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 23:29	WG1188131
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 16:51	WG1191602
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 23:29	WG1188131
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 23:29	WG1188131
Ethylbenzene	U			0.158	0.500	1	10/29/2018 23:29	WG1188131
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 23:29	WG1188131
2-Hexanone	U			0.757	5.00	1	10/29/2018 23:29	WG1188131
n-Hexane	U			0.305	5.00	1	10/29/2018 23:29	WG1188131
Iodomethane	U			0.377	10.0	1	10/29/2018 23:29	WG1188131
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 23:29	WG1188131
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 23:29	WG1188131
2-Butanone (MEK)	U	UJ	J0	1.28	5.00	1	10/29/2018 23:29	WG1188131

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 23:29	WG1188131
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 23:29	WG1188131
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 23:29	WG1188131
Naphthalene	U UJ	J0	0.174	2.50	1	10/29/2018 23:29	WG1188131
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 23:29	WG1188131
Styrene	U		0.117	0.500	1	10/29/2018 23:29	WG1188131
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 23:29	WG1188131
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 23:29	WG1188131
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 23:29	WG1188131
Tetrachloroethene	0.896 J+		0.199	0.500	1	10/29/2018 23:29	WG1188131
Toluene	U		0.412	0.500	1	11/05/2018 16:51	WG1191602
1,2,3-Trichlorobenzene	U UJ	J0	0.164	0.500	1	10/29/2018 23:29	WG1188131
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 23:29	WG1188131
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 23:29	WG1188131
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 23:29	WG1188131
Trichloroethene	0.463 U	J	0.153	0.500	1	10/29/2018 23:29	WG1188131
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 23:29	WG1188131
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 23:29	WG1188131
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 23:29	WG1188131
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 23:29	WG1188131
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 23:29	WG1188131
Vinyl acetate	U		0.645	5.00	1	10/29/2018 23:29	WG1188131
Vinyl chloride	U		0.118	0.500	1	10/29/2018 23:29	WG1188131
Xylenes, Total	U		0.316	1.50	1	10/29/2018 23:29	WG1188131
(S) Toluene-d8	*103*			*80.0-120*		*10/29/2018 23:29*	WG1188131
(S) Toluene-d8	*107*			*80.0-120*		*11/05/2018 16:51*	WG1191602
(S) Dibromofluoromethane	*91.4*			*75.0-120*		*10/29/2018 23:29*	WG1188131
(S) Dibromofluoromethane	*105*			*75.0-120*		*11/05/2018 16:51*	WG1191602
(S) 4-Bromofluorobenzene	*94.9*			*77.0-126*		*10/29/2018 23:29*	WG1188131
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*11/05/2018 16:51*	WG1191602

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	41.5	B J	31.6	100	1	11/01/2018 19:47	WG1189621
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*78.0-120*		*11/01/2018 19:47*	WG1189621

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.86	J J0	1.05	25.0	1	10/29/2018 23:48	WG1188131
Acrylonitrile	U	J0	0.873	5.00	1	10/29/2018 23:48	WG1188131
Benzene	U		0.0896	0.500	1	10/29/2018 23:48	WG1188131
Bromobenzene	U		0.133	0.500	1	10/29/2018 23:48	WG1188131
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 23:48	WG1188131
Bromochloromethane	U		0.145	0.500	1	10/29/2018 23:48	WG1188131
Bromoform	U		0.186	0.500	1	10/29/2018 23:48	WG1188131
Bromomethane	U	J0	0.157	2.50	1	10/29/2018 23:48	WG1188131
n-Butylbenzene	U	J0	0.143	0.500	1	10/29/2018 23:48	WG1188131
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 23:48	WG1188131
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 23:48	WG1188131
Carbon disulfide	U		0.101	0.500	1	10/29/2018 23:48	WG1188131
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 23:48	WG1188131
Chlorobenzene	U		0.140	0.500	1	10/29/2018 23:48	WG1188131
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 23:48	WG1188131
Chloroethane	U	J0	0.141	2.50	1	10/29/2018 23:48	WG1188131
Chloroform	U		0.0860	0.500	1	10/29/2018 23:48	WG1188131
Chloromethane	U		0.153	1.25	1	11/05/2018 17:11	WG1191602
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 23:48	WG1188131
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 23:48	WG1188131
1,2-Dibromo-3-Chloropropane	U	J0	0.325	2.50	1	10/29/2018 23:48	WG1188131
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 23:48	WG1188131
Dibromomethane	U		0.117	0.500	1	10/29/2018 23:48	WG1188131
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 23:48	WG1188131
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 23:48	WG1188131
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 23:48	WG1188131
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 17:11	WG1191602
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 23:48	WG1188131
1,2-Dichloroethane	U	J0	0.108	0.500	1	10/29/2018 23:48	WG1188131
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 23:48	WG1188131
cis-1,2-Dichloroethene	0.486	J	0.0933	0.500	1	10/29/2018 23:48	WG1188131
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 23:48	WG1188131
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 23:48	WG1188131
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 23:48	WG1188131
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 23:48	WG1188131
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 23:48	WG1188131
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 23:48	WG1188131
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 17:11	WG1191602
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 23:48	WG1188131
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 23:48	WG1188131
Ethylbenzene	U		0.158	0.500	1	10/29/2018 23:48	WG1188131
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 23:48	WG1188131
2-Hexanone	U		0.757	5.00	1	10/29/2018 23:48	WG1188131
n-Hexane	U		0.305	5.00	1	10/29/2018 23:48	WG1188131
Iodomethane	U		0.377	10.0	1	10/29/2018 23:48	WG1188131
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 23:48	WG1188131
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 23:48	WG1188131
2-Butanone (MEK)	U	J0	1.28	5.00	1	10/29/2018 23:48	WG1188131

JC 11/12/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 23:48	WG1188131
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 23:48	WG1188131
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 23:48	WG1188131
Naphthalene	U	J0	0.174	2.50	1	10/29/2018 23:48	WG1188131
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 23:48	WG1188131
Styrene	U		0.117	0.500	1	10/29/2018 23:48	WG1188131
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 23:48	WG1188131
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 23:48	WG1188131
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 23:48	WG1188131
Tetrachloroethene	0.850		0.199	0.500	1	10/29/2018 23:48	WG1188131
Toluene	0.527		0.412	0.500	1	10/29/2018 23:48	WG1188131
1,2,3-Trichlorobenzene	U	J0	0.164	0.500	1	10/29/2018 23:48	WG1188131
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 23:48	WG1188131
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 23:48	WG1188131
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 23:48	WG1188131
Trichloroethene	0.371	J	0.153	0.500	1	10/29/2018 23:48	WG1188131
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 23:48	WG1188131
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 23:48	WG1188131
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 23:48	WG1188131
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 23:48	WG1188131
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 23:48	WG1188131
Vinyl acetate	U		0.645	5.00	1	10/29/2018 23:48	WG1188131
Vinyl chloride	U		0.118	0.500	1	10/29/2018 23:48	WG1188131
Xylenes, Total	U		0.316	1.50	1	10/29/2018 23:48	WG1188131
(S) Toluene-d8	*103*			*80.0-120*		*10/29/2018 23:48*	WG1188131
(S) Toluene-d8	*103*			*80.0-120*		*11/05/2018 17:11*	WG1191602
(S) Dibromofluoromethane	*92.8*			*75.0-120*		*10/29/2018 23:48*	WG1188131
(S) Dibromofluoromethane	*106*			*75.0-120*		*11/05/2018 17:11*	WG1191602
(S) 4-Bromofluorobenzene	*95.6*			*77.0-126*		*10/29/2018 23:48*	WG1188131
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*11/05/2018 17:11*	WG1191602

JC 11/12/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	31.9 U	B J	31.6	100	1	11/02/2018 19:24	WG1190352
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*78.0-120*		*11/02/2018 19:24*	WG1190352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.75 U	J	1.05	25.0	1	10/31/2018 01:41	WG1188785
Acrylonitrile	U		0.873	5.00	1	10/31/2018 01:41	WG1188785
Benzene	U		0.0896	0.500	1	10/31/2018 01:41	WG1188785
Bromobenzene	U		0.133	0.500	1	10/31/2018 01:41	WG1188785
Bromodichloromethane	U		0.0800	0.500	1	10/31/2018 01:41	WG1188785
Bromochloromethane	U		0.145	0.500	1	10/31/2018 01:41	WG1188785
Bromoform	U		0.186	0.500	1	10/31/2018 01:41	WG1188785
Bromomethane	U		0.157	2.50	1	10/31/2018 01:41	WG1188785
n-Butylbenzene	U		0.143	0.500	1	10/31/2018 01:41	WG1188785
sec-Butylbenzene	U		0.134	0.500	1	10/31/2018 01:41	WG1188785
tert-Butylbenzene	U		0.183	0.500	1	10/31/2018 01:41	WG1188785
Carbon disulfide	U		0.101	0.500	1	10/31/2018 01:41	WG1188785
Carbon tetrachloride	U		0.159	0.500	1	10/31/2018 01:41	WG1188785
Chlorobenzene	U		0.140	0.500	1	10/31/2018 01:41	WG1188785
Chlorodibromomethane	U		0.128	0.500	1	10/31/2018 01:41	WG1188785
Chloroethane	U		0.141	2.50	1	10/31/2018 01:41	WG1188785
Chloroform	U		0.0860	0.500	1	10/31/2018 01:41	WG1188785
Chloromethane	U		0.153	1.25	1	10/31/2018 01:41	WG1188785
2-Chlorotoluene	U		0.111	0.500	1	10/31/2018 01:41	WG1188785
4-Chlorotoluene	U		0.0972	0.500	1	10/31/2018 01:41	WG1188785
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/31/2018 01:41	WG1188785
1,2-Dibromoethane	U		0.193	0.500	1	10/31/2018 01:41	WG1188785
Dibromomethane	U		0.117	0.500	1	10/31/2018 01:41	WG1188785
1,2-Dichlorobenzene	U		0.101	0.500	1	10/31/2018 01:41	WG1188785
1,3-Dichlorobenzene	U		0.130	0.500	1	10/31/2018 01:41	WG1188785
1,4-Dichlorobenzene	U		0.121	0.500	1	10/31/2018 01:41	WG1188785
Dichlorodifluoromethane	U		0.127	2.50	1	10/31/2018 01:41	WG1188785
1,1-Dichloroethane	U		0.114	0.500	1	10/31/2018 01:41	WG1188785
1,2-Dichloroethane	U		0.108	0.500	1	10/31/2018 01:41	WG1188785
1,1-Dichloroethene	U		0.188	0.500	1	10/31/2018 01:41	WG1188785
cis-1,2-Dichloroethene	1.44		0.0933	0.500	1	10/31/2018 01:41	WG1188785
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/31/2018 01:41	WG1188785
1,2-Dichloropropane	U		0.190	0.500	1	10/31/2018 01:41	WG1188785
1,1-Dichloropropene	U		0.128	0.500	1	10/31/2018 01:41	WG1188785
1,3-Dichloropropane	U		0.147	1.00	1	10/31/2018 01:41	WG1188785
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/31/2018 01:41	WG1188785
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/31/2018 01:41	WG1188785
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/31/2018 01:41	WG1188785
2,2-Dichloropropane	U		0.0929	0.500	1	10/31/2018 01:41	WG1188785
Di-isopropyl ether	U		0.0924	0.500	1	10/31/2018 01:41	WG1188785
Ethylbenzene	U		0.158	0.500	1	10/31/2018 01:41	WG1188785
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/31/2018 01:41	WG1188785
2-Hexanone	U		0.757	5.00	1	10/31/2018 01:41	WG1188785
n-Hexane	U		0.305	5.00	1	10/31/2018 01:41	WG1188785
Iodomethane	0.461 U	B J	0.377	10.0	1	10/31/2018 01:41	WG1188785
Isopropylbenzene	U		0.126	0.500	1	10/31/2018 01:41	WG1188785
p-Isopropyltoluene	U		0.138	0.500	1	10/31/2018 01:41	WG1188785
2-Butanone (MEK)	U		1.28	5.00	1	10/31/2018 01:41	WG1188785

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/31/2018 01:41	WG1188785
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/31/2018 01:41	WG1188785
Methyl tert-butyl ether	U		0.102	0.500	1	10/31/2018 01:41	WG1188785
Naphthalene	U		0.174	2.50	1	10/31/2018 01:41	WG1188785
n-Propylbenzene	U		0.162	0.500	1	10/31/2018 01:41	WG1188785
Styrene	U		0.117	0.500	1	10/31/2018 01:41	WG1188785
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/31/2018 01:41	WG1188785
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/31/2018 01:41	WG1188785
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/31/2018 01:41	WG1188785
Tetrachloroethene	U		0.199	0.500	1	10/31/2018 01:41	WG1188785
Toluene	U		0.412	0.500	1	10/31/2018 01:41	WG1188785
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/31/2018 01:41	WG1188785
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/31/2018 01:41	WG1188785
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/31/2018 01:41	WG1188785
1,1,2-Trichloroethane	U		0.186	0.500	1	10/31/2018 01:41	WG1188785
Trichloroethene	0.177 J	J	0.153	0.500	1	10/31/2018 01:41	WG1188785
Trichlorofluoromethane	U		0.130	2.50	1	10/31/2018 01:41	WG1188785
1,2,3-Trichloropropane	U		0.247	2.50	1	10/31/2018 01:41	WG1188785
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/31/2018 01:41	WG1188785
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/31/2018 01:41	WG1188785
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/31/2018 01:41	WG1188785
Vinyl acetate	U		0.645	5.00	1	10/31/2018 01:41	WG1188785
Vinyl chloride	0.236 J	J	0.118	0.500	1	10/31/2018 01:41	WG1188785
Xylenes, Total	U		0.316	1.50	1	10/31/2018 01:41	WG1188785
(S) Toluene-d8	*104*			*80.0-120*		*10/31/2018 01:41*	WG1188785
(S) Dibromofluoromethane	*101*			*75.0-120*		*10/31/2018 01:41*	WG1188785
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/31/2018 01:41*	WG1188785

JC 11/12/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	38.5 U	B J	31.6	100	1	11/02/2018 19:46	WG1190352
(S) a,a,a-Trifluorotoluene(FID)	*93.7*			*78.0-120*		*11/02/2018 19:46*	WG1190352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.23 U	J	1.05	25.0	1	10/31/2018 02:03	WG1188785
Acrylonitrile	U		0.873	5.00	1	10/31/2018 02:03	WG1188785
Benzene	U		0.0896	0.500	1	10/31/2018 02:03	WG1188785
Bromobenzene	U		0.133	0.500	1	10/31/2018 02:03	WG1188785
Bromodichloromethane	U		0.0800	0.500	1	10/31/2018 02:03	WG1188785
Bromochloromethane	U		0.145	0.500	1	10/31/2018 02:03	WG1188785
Bromoform	U		0.186	0.500	1	10/31/2018 02:03	WG1188785
Bromomethane	U		0.157	2.50	1	10/31/2018 02:03	WG1188785
n-Butylbenzene	U		0.143	0.500	1	10/31/2018 02:03	WG1188785
sec-Butylbenzene	U		0.134	0.500	1	10/31/2018 02:03	WG1188785
tert-Butylbenzene	U		0.183	0.500	1	10/31/2018 02:03	WG1188785
Carbon disulfide	U		0.101	0.500	1	10/31/2018 02:03	WG1188785
Carbon tetrachloride	U		0.159	0.500	1	10/31/2018 02:03	WG1188785
Chlorobenzene	U		0.140	0.500	1	10/31/2018 02:03	WG1188785
Chlorodibromomethane	U		0.128	0.500	1	10/31/2018 02:03	WG1188785
Chloroethane	U		0.141	2.50	1	10/31/2018 02:03	WG1188785
Chloroform	U		0.0860	0.500	1	10/31/2018 02:03	WG1188785
Chloromethane	U		0.153	1.25	1	10/31/2018 02:03	WG1188785
2-Chlorotoluene	U		0.111	0.500	1	10/31/2018 02:03	WG1188785
4-Chlorotoluene	U		0.0972	0.500	1	10/31/2018 02:03	WG1188785
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/31/2018 02:03	WG1188785
1,2-Dibromoethane	U		0.193	0.500	1	10/31/2018 02:03	WG1188785
Dibromomethane	U		0.117	0.500	1	10/31/2018 02:03	WG1188785
1,2-Dichlorobenzene	U		0.101	0.500	1	10/31/2018 02:03	WG1188785
1,3-Dichlorobenzene	U		0.130	0.500	1	10/31/2018 02:03	WG1188785
1,4-Dichlorobenzene	U		0.121	0.500	1	10/31/2018 02:03	WG1188785
Dichlorodifluoromethane	U		0.127	2.50	1	10/31/2018 02:03	WG1188785
1,1-Dichloroethane	U		0.114	0.500	1	10/31/2018 02:03	WG1188785
1,2-Dichloroethane	U		0.108	0.500	1	10/31/2018 02:03	WG1188785
1,1-Dichloroethene	U		0.188	0.500	1	10/31/2018 02:03	WG1188785
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/31/2018 02:03	WG1188785
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/31/2018 02:03	WG1188785
1,2-Dichloropropane	U		0.190	0.500	1	10/31/2018 02:03	WG1188785
1,1-Dichloropropene	U		0.128	0.500	1	10/31/2018 02:03	WG1188785
1,3-Dichloropropane	U		0.147	1.00	1	10/31/2018 02:03	WG1188785
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/31/2018 02:03	WG1188785
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/31/2018 02:03	WG1188785
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/31/2018 02:03	WG1188785
2,2-Dichloropropane	U		0.0929	0.500	1	10/31/2018 02:03	WG1188785
Di-isopropyl ether	U		0.0924	0.500	1	10/31/2018 02:03	WG1188785
Ethylbenzene	U		0.158	0.500	1	10/31/2018 02:03	WG1188785
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/31/2018 02:03	WG1188785
2-Hexanone	U		0.757	5.00	1	10/31/2018 02:03	WG1188785
n-Hexane	U		0.305	5.00	1	10/31/2018 02:03	WG1188785
Iodomethane	0.609 U	B J	0.377	10.0	1	10/31/2018 02:03	WG1188785
Isopropylbenzene	U		0.126	0.500	1	10/31/2018 02:03	WG1188785
p-Isopropyltoluene	U		0.138	0.500	1	10/31/2018 02:03	WG1188785
2-Butanone (MEK)	U		1.28	5.00	1	10/31/2018 02:03	WG1188785

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	10/31/2018 02:03	WG1188785
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/31/2018 02:03	WG1188785
Methyl tert-butyl ether	U		0.102	0.500	1	10/31/2018 02:03	WG1188785
Naphthalene	U		0.174	2.50	1	10/31/2018 02:03	WG1188785
n-Propylbenzene	U		0.162	0.500	1	10/31/2018 02:03	WG1188785
Styrene	0.146 J	J	0.117	0.500	1	10/31/2018 02:03	WG1188785
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/31/2018 02:03	WG1188785
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/31/2018 02:03	WG1188785
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/31/2018 02:03	WG1188785
Tetrachloroethene	U		0.199	0.500	1	10/31/2018 02:03	WG1188785
Toluene	U		0.412	0.500	1	10/31/2018 02:03	WG1188785
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/31/2018 02:03	WG1188785
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/31/2018 02:03	WG1188785
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/31/2018 02:03	WG1188785
1,1,2-Trichloroethane	U		0.186	0.500	1	10/31/2018 02:03	WG1188785
Trichloroethene	U		0.153	0.500	1	10/31/2018 02:03	WG1188785
Trichlorofluoromethane	U		0.130	2.50	1	10/31/2018 02:03	WG1188785
1,2,3-Trichloropropane	U		0.247	2.50	1	10/31/2018 02:03	WG1188785
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/31/2018 02:03	WG1188785
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/31/2018 02:03	WG1188785
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/31/2018 02:03	WG1188785
Vinyl acetate	U		0.645	5.00	1	10/31/2018 02:03	WG1188785
Vinyl chloride	0.169 J	J	0.118	0.500	1	10/31/2018 02:03	WG1188785
Xylenes, Total	U		0.316	1.50	1	10/31/2018 02:03	WG1188785
(S) Toluene-d8	*106*			*80.0-120*		*10/31/2018 02:03*	WG1188785
(S) Dibromofluoromethane	*102*			*75.0-120*		*10/31/2018 02:03*	WG1188785
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*10/31/2018 02:03*	WG1188785

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/02/2018 20:09	WG1190352
(S) a,a,a-Trifluorotoluene(FID)	*94.1*			*78.0-120*		*11/02/2018 20:09*	WG1190352

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.39 J	J	1.05	25.0	1	10/31/2018 02:24	WG1188785
Acrylonitrile	U		0.873	5.00	1	10/31/2018 02:24	WG1188785
Benzene	U		0.0896	0.500	1	10/31/2018 02:24	WG1188785
Bromobenzene	U		0.133	0.500	1	10/31/2018 02:24	WG1188785
Bromodichloromethane	U		0.0800	0.500	1	10/31/2018 02:24	WG1188785
Bromochloromethane	U		0.145	0.500	1	10/31/2018 02:24	WG1188785
Bromoform	U		0.186	0.500	1	10/31/2018 02:24	WG1188785
Bromomethane	U		0.157	2.50	1	10/31/2018 02:24	WG1188785
n-Butylbenzene	U		0.143	0.500	1	10/31/2018 02:24	WG1188785
sec-Butylbenzene	U		0.134	0.500	1	10/31/2018 02:24	WG1188785
tert-Butylbenzene	U		0.183	0.500	1	10/31/2018 02:24	WG1188785
Carbon disulfide	U		0.101	0.500	1	10/31/2018 02:24	WG1188785
Carbon tetrachloride	U		0.159	0.500	1	10/31/2018 02:24	WG1188785
Chlorobenzene	U		0.140	0.500	1	10/31/2018 02:24	WG1188785
Chlorodibromomethane	U		0.128	0.500	1	10/31/2018 02:24	WG1188785
Chloroethane	U		0.141	2.50	1	10/31/2018 02:24	WG1188785
Chloroform	U		0.0860	0.500	1	10/31/2018 02:24	WG1188785
Chloromethane	U		0.153	1.25	1	10/31/2018 02:24	WG1188785
2-Chlorotoluene	U		0.111	0.500	1	10/31/2018 02:24	WG1188785
4-Chlorotoluene	U		0.0972	0.500	1	10/31/2018 02:24	WG1188785
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/31/2018 02:24	WG1188785
1,2-Dibromoethane	U		0.193	0.500	1	10/31/2018 02:24	WG1188785
Dibromomethane	U		0.117	0.500	1	10/31/2018 02:24	WG1188785
1,2-Dichlorobenzene	U		0.101	0.500	1	10/31/2018 02:24	WG1188785
1,3-Dichlorobenzene	U		0.130	0.500	1	10/31/2018 02:24	WG1188785
1,4-Dichlorobenzene	U		0.121	0.500	1	10/31/2018 02:24	WG1188785
Dichlorodifluoromethane	U		0.127	2.50	1	10/31/2018 02:24	WG1188785
1,1-Dichloroethane	U		0.114	0.500	1	10/31/2018 02:24	WG1188785
1,2-Dichloroethane	U		0.108	0.500	1	10/31/2018 02:24	WG1188785
1,1-Dichloroethene	U		0.188	0.500	1	10/31/2018 02:24	WG1188785
cis-1,2-Dichloroethene	0.629		0.0933	0.500	1	10/31/2018 02:24	WG1188785
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/31/2018 02:24	WG1188785
1,2-Dichloropropane	U		0.190	0.500	1	10/31/2018 02:24	WG1188785
1,1-Dichloropropene	U		0.128	0.500	1	10/31/2018 02:24	WG1188785
1,3-Dichloropropane	U		0.147	1.00	1	10/31/2018 02:24	WG1188785
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/31/2018 02:24	WG1188785
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/31/2018 02:24	WG1188785
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/31/2018 02:24	WG1188785
2,2-Dichloropropane	U		0.0929	0.500	1	10/31/2018 02:24	WG1188785
Di-isopropyl ether	U		0.0924	0.500	1	10/31/2018 02:24	WG1188785
Ethylbenzene	U		0.158	0.500	1	10/31/2018 02:24	WG1188785
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/31/2018 02:24	WG1188785
2-Hexanone	U		0.757	5.00	1	10/31/2018 02:24	WG1188785
n-Hexane	U		0.305	5.00	1	10/31/2018 02:24	WG1188785
Iodomethane	0.659 U	B J	0.377	10.0	1	10/31/2018 02:24	WG1188785
Isopropylbenzene	U		0.126	0.500	1	10/31/2018 02:24	WG1188785
p-Isopropyltoluene	U		0.138	0.500	1	10/31/2018 02:24	WG1188785
2-Butanone (MEK)	U		1.28	5.00	1	10/31/2018 02:24	WG1188785

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	10/31/2018 02:24	WG1188785
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	10/31/2018 02:24	WG1188785
Methyl tert-butyl ether	U			0.102	0.500	1	10/31/2018 02:24	WG1188785
Naphthalene	U			0.174	2.50	1	10/31/2018 02:24	WG1188785
n-Propylbenzene	U			0.162	0.500	1	10/31/2018 02:24	WG1188785
Styrene	0.242	J	J	0.117	0.500	1	10/31/2018 02:24	WG1188785
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	10/31/2018 02:24	WG1188785
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	10/31/2018 02:24	WG1188785
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	10/31/2018 02:24	WG1188785
Tetrachloroethene	0.220	J	J	0.199	0.500	1	10/31/2018 02:24	WG1188785
Toluene	U			0.412	0.500	1	10/31/2018 02:24	WG1188785
1,2,3-Trichlorobenzene	U			0.164	0.500	1	10/31/2018 02:24	WG1188785
1,2,4-Trichlorobenzene	U			0.355	0.500	1	10/31/2018 02:24	WG1188785
1,1,1-Trichloroethane	U			0.0940	0.500	1	10/31/2018 02:24	WG1188785
1,1,2-Trichloroethane	U			0.186	0.500	1	10/31/2018 02:24	WG1188785
Trichloroethene	0.696			0.153	0.500	1	10/31/2018 02:24	WG1188785
Trichlorofluoromethane	U			0.130	2.50	1	10/31/2018 02:24	WG1188785
1,2,3-Trichloropropane	U			0.247	2.50	1	10/31/2018 02:24	WG1188785
1,2,4-Trimethylbenzene	U			0.123	0.500	1	10/31/2018 02:24	WG1188785
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	10/31/2018 02:24	WG1188785
1,3,5-Trimethylbenzene	U			0.124	0.500	1	10/31/2018 02:24	WG1188785
Vinyl acetate	U			0.645	5.00	1	10/31/2018 02:24	WG1188785
Vinyl chloride	3.90			0.118	0.500	1	10/31/2018 02:24	WG1188785
Xylenes, Total	U			0.316	1.50	1	10/31/2018 02:24	WG1188785
(S) Toluene-d8	*102*				*80.0-120*		*10/31/2018 02:24*	WG1188785
(S) Dibromofluoromethane	*101*				*75.0-120*		*10/31/2018 02:24*	WG1188785
(S) 4-Bromofluorobenzene	*102*				*77.0-126*		*10/31/2018 02:24*	WG1188785

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Collected date/time: 10/29/18 00:00

SAMPLE RESULTS - 04

L1039305

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.48	J	1.05	25.0	1	10/30/2018 20:00	WG1188785
Acrylonitrile	U		0.873	5.00	1	10/30/2018 20:00	WG1188785
Benzene	U		0.0896	0.500	1	10/30/2018 20:00	WG1188785
Bromobenzene	U		0.133	0.500	1	10/30/2018 20:00	WG1188785
Bromodichloromethane	U		0.0800	0.500	1	10/30/2018 20:00	WG1188785
Bromochloromethane	U		0.145	0.500	1	10/30/2018 20:00	WG1188785
Bromoform	U		0.186	0.500	1	10/30/2018 20:00	WG1188785
Bromomethane	U		0.157	2.50	1	10/30/2018 20:00	WG1188785
n-Butylbenzene	U		0.143	0.500	1	10/30/2018 20:00	WG1188785
sec-Butylbenzene	U		0.134	0.500	1	10/30/2018 20:00	WG1188785
tert-Butylbenzene	U		0.183	0.500	1	10/30/2018 20:00	WG1188785
Carbon disulfide	U		0.101	0.500	1	10/30/2018 20:00	WG1188785
Carbon tetrachloride	U		0.159	0.500	1	10/30/2018 20:00	WG1188785
Chlorobenzene	U		0.140	0.500	1	10/30/2018 20:00	WG1188785
Chlorodibromomethane	U		0.128	0.500	1	10/30/2018 20:00	WG1188785
Chloroethane	U		0.141	2.50	1	10/30/2018 20:00	WG1188785
Chloroform	U		0.0860	0.500	1	10/30/2018 20:00	WG1188785
Chloromethane	U		0.153	1.25	1	10/30/2018 20:00	WG1188785
2-Chlorotoluene	U		0.111	0.500	1	10/30/2018 20:00	WG1188785
4-Chlorotoluene	U		0.0972	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/30/2018 20:00	WG1188785
1,2-Dibromoethane	U		0.193	0.500	1	10/30/2018 20:00	WG1188785
Dibromomethane	U		0.117	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dichlorobenzene	U		0.101	0.500	1	10/30/2018 20:00	WG1188785
1,3-Dichlorobenzene	U		0.130	0.500	1	10/30/2018 20:00	WG1188785
1,4-Dichlorobenzene	U		0.121	0.500	1	10/30/2018 20:00	WG1188785
Dichlorodifluoromethane	U		0.127	2.50	1	10/30/2018 20:00	WG1188785
1,1-Dichloroethane	U		0.114	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dichloroethane	U		0.108	0.500	1	10/30/2018 20:00	WG1188785
1,1-Dichloroethene	U		0.188	0.500	1	10/30/2018 20:00	WG1188785
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/30/2018 20:00	WG1188785
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dichloropropane	U		0.190	0.500	1	10/30/2018 20:00	WG1188785
1,1-Dichloropropene	U		0.128	0.500	1	10/30/2018 20:00	WG1188785
1,3-Dichloropropane	U		0.147	1.00	1	10/30/2018 20:00	WG1188785
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/30/2018 20:00	WG1188785
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/30/2018 20:00	WG1188785
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/30/2018 20:00	WG1188785
2,2-Dichloropropane	U		0.0929	0.500	1	10/30/2018 20:00	WG1188785
Di-isopropyl ether	U		0.0924	0.500	1	10/30/2018 20:00	WG1188785
Ethylbenzene	U		0.158	0.500	1	10/30/2018 20:00	WG1188785
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/30/2018 20:00	WG1188785
2-Hexanone	U		0.757	5.00	1	10/30/2018 20:00	WG1188785
n-Hexane	U		0.305	5.00	1	10/30/2018 20:00	WG1188785
Iodomethane	0.869	B J	0.377	10.0	1	10/30/2018 20:00	WG1188785
Isopropylbenzene	U		0.126	0.500	1	10/30/2018 20:00	WG1188785
p-Isopropyltoluene	U		0.138	0.500	1	10/30/2018 20:00	WG1188785
2-Butanone (MEK)	U		1.28	5.00	1	10/30/2018 20:00	WG1188785
Methylene Chloride	U		1.07	2.50	1	10/30/2018 20:00	WG1188785
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/30/2018 20:00	WG1188785
Methyl tert-butyl ether	U		0.102	0.500	1	10/30/2018 20:00	WG1188785
Naphthalene	U		0.174	2.50	1	10/30/2018 20:00	WG1188785
n-Propylbenzene	U		0.162	0.500	1	10/30/2018 20:00	WG1188785
Styrene	U		0.117	0.500	1	10/30/2018 20:00	WG1188785
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/30/2018 20:00	WG1188785
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/30/2018 20:00	WG1188785

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/30/2018 20:00	WG1188785
Tetrachloroethene	U		0.199	0.500	1	10/30/2018 20:00	WG1188785
Toluene	U		0.412	0.500	1	10/30/2018 20:00	WG1188785
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/30/2018 20:00	WG1188785
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/30/2018 20:00	WG1188785
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/30/2018 20:00	WG1188785
1,1,2-Trichloroethane	U		0.186	0.500	1	10/30/2018 20:00	WG1188785
Trichloroethene	U		0.153	0.500	1	10/30/2018 20:00	WG1188785
Trichlorofluoromethane	U		0.130	2.50	1	10/30/2018 20:00	WG1188785
1,2,3-Trichloropropane	U		0.247	2.50	1	10/30/2018 20:00	WG1188785
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/30/2018 20:00	WG1188785
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/30/2018 20:00	WG1188785
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/30/2018 20:00	WG1188785
Vinyl acetate	U		0.645	5.00	1	10/30/2018 20:00	WG1188785
Vinyl chloride	U		0.118	0.500	1	10/30/2018 20:00	WG1188785
Xylenes, Total	U		0.316	1.50	1	10/30/2018 20:00	WG1188785
(S) Toluene-d8	*104*			*80.0-120*		*10/30/2018 20:00*	WG1188785
(S) Dibromofluoromethane	*102*			*75.0-120*		*10/30/2018 20:00*	WG1188785
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*10/30/2018 20:00*	WG1188785

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MEMORANDUM

TO: Project File **DATE:** January 21, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.601

TASK: EIM Data Validation Level EPA2A for December 2018 - Groundwater Samples

LAB: Pace Sample Delivery Groups L1053029, L1053394, L1053462, and L1053929

Twenty-two (22) groundwater samples including one field duplicate, one equipment blank, and one trip blank were collected as Round 2 Interim Action Compliance Monitoring sampling event at the Former American Linen Supply Site, in Seattle, Washington, on December 12-14, and 17, 2018. The samples were shipped and delivered to PACE Lab Sciences (PACE) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (Chloride, Nitrate, and Sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020A.

Associated sample data are reported in four Pace SDGs (SDGs L1053029, L1053394, L1053462, and L1053929). The quality assurance review of the sample data are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with PACE control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested with the following discussions:

- SDG L1053394: Review of the COC and *PACE Lab Sciences Non-Conformance Form* shows that no analytical requests were made. PES clarified the sample analyses requests on December 14, 2018.

- SDG L1053462: Review of the chain of custody (COC) form and *PACE Lab Sciences Non-Conformance Form* shows a full suite of analytical requests for the Trip Blank. PES clarified that the Trip Blank should only be analyzed for VOCs and gasoline on December 15, 2018.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria were met.

NWTPH-Gx Method:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

USEPA Method 6020A:
All samples were analyzed within the USEPA recommended holding time for arsenic of 180 days for preserved waters from the date of sample collection. All holding time criteria were met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria were met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDG L1053462 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by PACE for 1,2,3-trichlorobenzene associated with analytical batch WG1211777 (analyzed on December 16, 2018). Associated sample (MW-151-121418 and MW-152-121418) results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample 1,2,3-trichlorobenzene results are estimated and qualified (UJ).**

- SDG L1053462 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by PACE for dichlorodifluoromethane, 2,2-dichloropropane, and trichlorofluoromethane associated with analytical batch WG1212450 (analyzed on December 18, 2018). Trip blank results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Trip blank results with laboratory qualified (J0) results are estimated and qualified (J/UJ) but the qualifiers do not impact associated sample results.**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1053462 - Analytical batch WG1211777: Low levels of naphthalene and 1,2,4-trimethylbenzene are detected in the method blank. No action was necessary for naphthalene as it was not detected in the associated samples. **Compound 1,2,4-trimethylbenzene was detected below the RDL (at a dilution) in sample MW-152-121418 and is considered non-detected (U) due to blank contamination.**

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exception:

- SDG L1053929 - Analytical batch WG1213027: Gasoline is detected at a low level (below the RDL) in the method blank. No action was taken since gasoline is not detected in sample MW-138-121718 and is detected significantly greater than the RDL in sample MW-130-121718.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020A:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1053029 - Analytical batch WG1211333: Iron was detected at a low level (below the RDL) in the method blank. **Sample MW-132-121318 iron result is estimated with high bias (J+) due to blank contamination.**

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1053029 - Analytical batch WG1212038: Alkalinity was detected at a low level in the method blank. No action was necessary as alkalinity detections in the associated samples are far greater than the detection in the method blank.

- SDGs L1053029 and L1053462 - Analytical batch WG1211292: Chloride was detected at a low level in the method blank. No action was necessary as chloride detections in the associated samples are far greater than the detection in the method blank.

- SDGs L1053462 and L1053929 - Analytical batch WG1213167: Alkalinity was detected at a low level in the method blank. No action was necessary as alkalinity detections in the associated samples are far greater than the detection in the method blank.

- SDG L1053929 - Analytical batch WG1218013: Total organic carbon (TOC) was detected at a low level in the method blank. No action was necessary as the TOC detection in the associated sample is are far greater than the detection in the method blank.

Trip Blank Results

USEPA Method 8260C:
One trip blank was collected and analyzed (refer to SDG L1053462) for VOCs. The target analytes were not detected in the trip blank at or above the RDLs.

Field, Rinsate, or Equipment Blank Results

USEPA Method 8260Cand NWTPH-Gx Method:
An equipment blank sample (EQ-121218) was collected on December 12, 2018 from the bladder pump (refer to SDG L1053029). Samples from monitoring wells MW-133, MW-141, MW-134 were collected using the bladder pump on December 12, 2018 (refer to SDG L1053394). The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

- SDG L1053394 - Analytical batch WG1212222: A low level of acetone (below the RDL) was detected in the equipment blank. **Sample MW-133-121218 and MW-141-121218**

acetone detections are less than the RDL and are qualified (U) as not detected due to equipment blank contamination.

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- PACE SDG L1053029: Samples MW-149-121318 and MW-904-121318

VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% for the field duplicate pair.

Laboratory Duplicate Analyses

USEPA Method 8260C:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

NWTPH-Gx Method:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020A:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
A laboratory duplicate sample was performed on client samples and on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blank, and the method blanks are within the laboratory surrogate control limits for all the analyses with the following exceptions:

- SDG L1053462 - Analytical batch WG1211777 on December 16, 2018: Surrogate *4-bromofluorobenzene* was recovered at 137% and above laboratory control limit criteria in sample MW-152-121418. **All positively detected sample MW-152-121418 results (December 16, 2018) are estimated with potential high bias (J+) due to elevated surrogate recovery with the exception of 1,2,4-trimethylbenzene which is qualified as not detected due to blank contamination.** Refer to the section on Method Blank Results for further discussion.

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blank, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260C:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions and exceptions:

- SDG L1053462- Analytical batch WG1211777: LCS/LCSD recoveries and RPDs are within criteria except for bromobenzene and 4-chlorotoluene which are above control limit criteria and laboratory qualified (J4). No action is required since these compounds were not detected in the associated samples. LCS/LCSD sec-butylbenzene recoveries were within but are recovered wide and laboratory qualified (J3). No action was taken since sec-butylbenzene recoveries are within laboratory control limit criteria.

NWTPH-Gx Method:

The LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD %Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020A:
The LCS/LCSD %Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS or LCS/LCSD %Rs and RPDs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and/or field duplicate data for accuracy and precision data.

NWTPH-Gx Method:
MS/MSD analyses were performed on non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters with the following exceptions:

- SDGs L1053029 and L1053394 - Analytical batch WG1211498: MS/MSD was performed on sample MW-136-121318 (SDG L1053029). MS/MSD gasoline spike recoveries were within laboratory QC acceptance criteria but recovered wide and laboratory qualified (J3). No action was taken, and no qualification is applied since MS/MSD gasoline recoveries are within laboratory control limit criteria.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data.

USEPA Method 6020A:
MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDG L1053029 - Analytical batch WG1211321: MS/MSD was performed on sample MW-135-121318. Sample MW-135-121318 manganese concentration was greater than four times the spike concentration and qualified (V) by the laboratory. Per National Functional Guidelines, no qualification is necessary.

- SDG L1053462 - Analytical batch WG1212648: MS/MSD was performed on sample MW-152-121418. Sample MW-152-121418 manganese concentration was greater than four times the spike concentration and qualified (V) by the laboratory. Per National Functional Guidelines, no qualification is necessary.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDG L1053029 - Analytical batch WG1216768: MS/MSD was performed on sample MW-149-121318. Sample MW-149-121318 TOC MS/MSD results are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that duplicate and LCS results are within criteria.

- SDG L1053462- Analytical batch WG1211292: One MS was performed on a non-client sample within the analytical batch. Nitrate recovery is above QC criteria and laboratory qualified (J5) to indicate that the spike was recovered high due to matrix effect. No action is taken since the spike was performed on a non-client sample. Refer to LCS and laboratory duplicate data for accuracy and precision results.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- SDGs L1053029, L1053462, and L1053929: Selected sample narratives for alkalinity results indicate that several sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Quantitation Limits

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. Though no action is taken other than to note that PACE sample narrative notes indicate that VOC target compounds were too high to run at lower dilution for seven (including a field duplicate) samples:

SDG Number	Laboratory Identification	Client Sample Identification
L1053029	L1053029-01	MW-150-121218
L1053029	L1053029-07	MW-149-121318
L1053029	L1053029-08	MW-132-121318
L1053029	L1053029-09	MW-904-121318
L1053029	L1053029-10	MW-135-121318
L1053462	L1053462-04	MW-152-121418
L1053929	L1053929-02	MW-130-121718

- SDG L1053394: Sample W-MW-02-121218 was analyzed for gasoline at the lowest possible dilution factor (five-fold) due to sample foaming observed during laboratory analysis. Gasoline was not detected in the sample. **Sample W-MW-02-121218 gasoline result is estimated and qualified (UJ) due to the unexplained sample foaming.** Future sampling rounds at this location may include collection of sample for gasoline analysis in both preserved and unpreserved vials.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	260000		2710	20000	1	12/18/2018 23:25	WG1212038

Sample Narrative:

L1053029-08 WG1212038: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	40400		51.9	1000	1	12/14/2018 19:53	WG1210790
Nitrate	U		22.7	100	1	12/14/2018 19:53	WG1210790
Sulfate	7210		77.4	5000	1	12/14/2018 19:53	WG1210790

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3440		102	1000	1	12/28/2018 21:30	WG1216768

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	544 J+	B	15.0	100	1	12/18/2018 11:14	WG1211333
Manganese	278		0.250	5.00	1	12/18/2018 11:14	WG1211333

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 19:34	WG1211498
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*12/15/2018 19:34*	WG1211498

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	89.7		0.287	0.678	1	12/18/2018 09:41	WG1212060
Ethane	0.925	J	0.296	1.29	1	12/18/2018 09:41	WG1212060
Ethene	41.0		0.422	1.27	1	12/18/2018 09:41	WG1212060

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		5.25	125	5	12/18/2018 03:50	WG1212222
Acrylonitrile	U		0.873	5.00	1	12/16/2018 14:55	WG1211567
Benzene	U		0.0896	0.500	1	12/16/2018 14:55	WG1211567
Bromobenzene	U		0.133	0.500	1	12/16/2018 14:55	WG1211567
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 14:55	WG1211567
Bromochloromethane	U		0.145	0.500	1	12/16/2018 14:55	WG1211567
Bromoform	U		0.186	0.500	1	12/16/2018 14:55	WG1211567
Bromomethane	U		0.157	2.50	1	12/16/2018 14:55	WG1211567
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 14:55	WG1211567
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 14:55	WG1211567
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 14:55	WG1211567
Carbon disulfide	U		0.101	0.500	1	12/16/2018 14:55	WG1211567
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 14:55	WG1211567

MW-132-121318

Collected date/time: 12/13/18 11:45

SAMPLE RESULTS - 08

L1053029

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	12/16/2018 14:55	WG1211567
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 14:55	WG1211567
Chloroethane	U		0.141	2.50	1	12/16/2018 14:55	WG1211567
Chloroform	U		0.0860	0.500	1	12/16/2018 14:55	WG1211567
Chloromethane	U		0.153	1.25	1	12/16/2018 14:55	WG1211567
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 14:55	WG1211567
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 14:55	WG1211567
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 14:55	WG1211567
Dibromomethane	U		0.117	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 14:55	WG1211567
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 14:55	WG1211567
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 14:55	WG1211567
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 14:55	WG1211567
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 14:55	WG1211567
1,1-Dichloroethene	0.450	J	0.188	0.500	1	12/16/2018 14:55	WG1211567
cis-1,2-Dichloroethene	39.8		0.466	2.50	5	12/18/2018 03:50	WG1212222
trans-1,2-Dichloroethene	0.497	J	0.152	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 14:55	WG1211567
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 14:55	WG1211567
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 14:55	WG1211567
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 14:55	WG1211567
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 14:55	WG1211567
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 14:55	WG1211567
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 14:55	WG1211567
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 14:55	WG1211567
Ethylbenzene	U		0.158	0.500	1	12/16/2018 14:55	WG1211567
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 14:55	WG1211567
2-Hexanone	U		0.757	5.00	1	12/16/2018 14:55	WG1211567
n-Hexane	U		0.305	5.00	1	12/16/2018 14:55	WG1211567
Iodomethane	U		0.377	10.0	1	12/16/2018 14:55	WG1211567
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 14:55	WG1211567
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 14:55	WG1211567
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 14:55	WG1211567
Methylene Chloride	U		1.07	2.50	1	12/16/2018 14:55	WG1211567
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 14:55	WG1211567
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 14:55	WG1211567
Naphthalene	U		0.174	2.50	1	12/16/2018 14:55	WG1211567
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 14:55	WG1211567
Styrene	U		0.117	0.500	1	12/16/2018 14:55	WG1211567
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 14:55	WG1211567
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 14:55	WG1211567
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 14:55	WG1211567
Tetrachloroethene	U		0.995	2.50	5	12/18/2018 03:50	WG1212222
Toluene	U		0.412	0.500	1	12/16/2018 14:55	WG1211567
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 14:55	WG1211567
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 14:55	WG1211567
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 14:55	WG1211567
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 14:55	WG1211567
Trichloroethene	U		0.765	2.50	5	12/18/2018 03:50	WG1212222
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 14:55	WG1211567
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 14:55	WG1211567
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 14:55	WG1211567
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 14:55	WG1211567
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 14:55	WG1211567

JC 1/20/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	12/16/2018 14:55	WG1211567
Vinyl chloride	199		0.590	2.50	5	12/18/2018 03:50	WG1212222
Xylenes, Total	U		0.316	1.50	1	12/16/2018 14:55	WG1211567
(S) Toluene-d8	*104*			*80.0-120*		*12/16/2018 14:55*	WG1211567
(S) Toluene-d8	*104*			*80.0-120*		*12/18/2018 03:50*	WG1212222
(S) Dibromofluoromethane	*109*			*75.0-120*		*12/16/2018 14:55*	WG1211567
(S) Dibromofluoromethane	*89.7*			*75.0-120*		*12/18/2018 03:50*	WG1212222
(S) 4-Bromofluorobenzene	*92.0*			*77.0-126*		*12/16/2018 14:55*	WG1211567
(S) 4-Bromofluorobenzene	*95.7*			*77.0-126*		*12/18/2018 03:50*	WG1212222

Sample Narrative:

L1053029-08 WG1212222, WG1211567: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1053029-08 WG1212222, WG1211567: Not all compounds reportable at lower dilution.

JC 1/20/19

MW-133-121218
Collected date/time: 12/12/18 10:00

SAMPLE RESULTS - 05
L1053394

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 22:04	WG1211498
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*12/15/2018 22:04*	WG1211498

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.76 U	J	1.05	25.0	1	12/18/2018 02:33	WG1212222
Acrylonitrile	U		0.873	5.00	1	12/16/2018 18:03	WG1211567
Benzene	U		0.0896	0.500	1	12/16/2018 18:03	WG1211567
Bromobenzene	U		0.133	0.500	1	12/16/2018 18:03	WG1211567
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 18:03	WG1211567
Bromochloromethane	U		0.145	0.500	1	12/16/2018 18:03	WG1211567
Bromoform	U		0.186	0.500	1	12/16/2018 18:03	WG1211567
Bromomethane	U		0.157	2.50	1	12/16/2018 18:03	WG1211567
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 18:03	WG1211567
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 18:03	WG1211567
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 18:03	WG1211567
Carbon disulfide	U		0.101	0.500	1	12/16/2018 18:03	WG1211567
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 18:03	WG1211567
Chlorobenzene	U		0.140	0.500	1	12/16/2018 18:03	WG1211567
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 18:03	WG1211567
Chloroethane	U		0.141	2.50	1	12/16/2018 18:03	WG1211567
Chloroform	U		0.0860	0.500	1	12/16/2018 18:03	WG1211567
Chloromethane	0.233	J	0.153	1.25	1	12/16/2018 18:03	WG1211567
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 18:03	WG1211567
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 18:03	WG1211567
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 18:03	WG1211567
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 18:03	WG1211567
Dibromomethane	U		0.117	0.500	1	12/16/2018 18:03	WG1211567
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 18:03	WG1211567
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 18:03	WG1211567
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 18:03	WG1211567
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 18:03	WG1211567
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 18:03	WG1211567
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 18:03	WG1211567
1,1-Dichloroethene	1.67		0.188	0.500	1	12/16/2018 18:03	WG1211567
cis-1,2-Dichloroethene	7.88		0.0933	0.500	1	12/18/2018 02:33	WG1212222
trans-1,2-Dichloroethene	0.454	J	0.152	0.500	1	12/16/2018 18:03	WG1211567
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 18:03	WG1211567
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 18:03	WG1211567
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 18:03	WG1211567
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 18:03	WG1211567
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 18:03	WG1211567
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 18:03	WG1211567
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 18:03	WG1211567
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 18:03	WG1211567
Ethylbenzene	U		0.158	0.500	1	12/16/2018 18:03	WG1211567
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 18:03	WG1211567
2-Hexanone	U		0.757	5.00	1	12/16/2018 18:03	WG1211567
n-Hexane	U		0.305	5.00	1	12/16/2018 18:03	WG1211567
Iodomethane	U		0.377	10.0	1	12/16/2018 18:03	WG1211567
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 18:03	WG1211567
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 18:03	WG1211567
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 18:03	WG1211567

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	12/16/2018 18:03	WG1211567
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 18:03	WG1211567
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 18:03	WG1211567
Naphthalene	0.251	J	0.174	2.50	1	12/16/2018 18:03	WG1211567
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 18:03	WG1211567
Styrene	U		0.117	0.500	1	12/16/2018 18:03	WG1211567
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 18:03	WG1211567
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 18:03	WG1211567
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 18:03	WG1211567
Tetrachloroethene	1.71		0.199	0.500	1	12/18/2018 02:33	WG1212222
Toluene	U		0.412	0.500	1	12/16/2018 18:03	WG1211567
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 18:03	WG1211567
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 18:03	WG1211567
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 18:03	WG1211567
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 18:03	WG1211567
Trichloroethene	2.75		0.153	0.500	1	12/18/2018 02:33	WG1212222
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 18:03	WG1211567
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 18:03	WG1211567
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 18:03	WG1211567
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 18:03	WG1211567
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 18:03	WG1211567
Vinyl acetate	U		0.645	5.00	1	12/16/2018 18:03	WG1211567
Vinyl chloride	5.95		0.118	0.500	1	12/16/2018 18:03	WG1211567
Xylenes, Total	U		0.316	1.50	1	12/16/2018 18:03	WG1211567
(S) Toluene-d8	*104*			*80.0-120*		*12/16/2018 18:03*	WG1211567
(S) Toluene-d8	*106*			*80.0-120*		*12/18/2018 02:33*	WG1212222
(S) Dibromofluoromethane	*96.1*			*75.0-120*		*12/16/2018 18:03*	WG1211567
(S) Dibromofluoromethane	*87.9*			*75.0-120*		*12/18/2018 02:33*	WG1212222
(S) 4-Bromofluorobenzene	*88.5*			*77.0-126*		*12/16/2018 18:03*	WG1211567
(S) 4-Bromofluorobenzene	*96.7*			*77.0-126*		*12/18/2018 02:33*	WG1212222

JC 1/21/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-141-121218

Collected date/time: 12/12/18 11:20

SAMPLE RESULTS - 06

L1053394

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 22:25	WG1211498
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*12/15/2018 22:25*	WG1211498

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	1.11 U	J	1.05	25.0	1	12/18/2018 02:52	WG1212222	
Acrylonitrile	U		0.873	5.00	1	12/16/2018 18:22	WG1211567	
Benzene	U		0.0896	0.500	1	12/16/2018 18:22	WG1211567	
Bromobenzene	U		0.133	0.500	1	12/16/2018 18:22	WG1211567	
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 18:22	WG1211567	
Bromochloromethane	U		0.145	0.500	1	12/16/2018 18:22	WG1211567	
Bromoform	U		0.186	0.500	1	12/16/2018 18:22	WG1211567	
Bromomethane	U		0.157	2.50	1	12/16/2018 18:22	WG1211567	
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 18:22	WG1211567	
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 18:22	WG1211567	
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 18:22	WG1211567	
Carbon disulfide	U		0.101	0.500	1	12/16/2018 18:22	WG1211567	
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 18:22	WG1211567	
Chlorobenzene	U		0.140	0.500	1	12/16/2018 18:22	WG1211567	
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 18:22	WG1211567	
Chloroethane	U		0.141	2.50	1	12/16/2018 18:22	WG1211567	
Chloroform	U		0.0860	0.500	1	12/16/2018 18:22	WG1211567	
Chloromethane	U		0.153	1.25	1	12/16/2018 18:22	WG1211567	
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 18:22	WG1211567	
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 18:22	WG1211567	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 18:22	WG1211567	
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 18:22	WG1211567	
Dibromomethane	U		0.117	0.500	1	12/16/2018 18:22	WG1211567	
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 18:22	WG1211567	
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 18:22	WG1211567	
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 18:22	WG1211567	
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 18:22	WG1211567	
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 18:22	WG1211567	
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 18:22	WG1211567	
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 18:22	WG1211567	
cis-1,2-Dichloroethene	1.46		0.0933	0.500	1	12/18/2018 02:52	WG1212222	
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/16/2018 18:22	WG1211567	
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 18:22	WG1211567	
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 18:22	WG1211567	
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 18:22	WG1211567	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 18:22	WG1211567	
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 18:22	WG1211567	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 18:22	WG1211567	
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 18:22	WG1211567	
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 18:22	WG1211567	
Ethylbenzene	U		0.158	0.500	1	12/16/2018 18:22	WG1211567	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 18:22	WG1211567	
2-Hexanone	U		0.757	5.00	1	12/16/2018 18:22	WG1211567	
n-Hexane	U		0.305	5.00	1	12/16/2018 18:22	WG1211567	
Iodomethane	U		0.377	10.0	1	12/16/2018 18:22	WG1211567	
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 18:22	WG1211567	JC 1/21/19
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 18:22	WG1211567	
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 18:22	WG1211567	

MW-141-121218

Collected date/time: 12/12/18 11:20

SAMPLE RESULTS - 06

L1053394

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	12/16/2018 18:22	WG1211567
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 18:22	WG1211567
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 18:22	WG1211567
Naphthalene	U		0.174	2.50	1	12/16/2018 18:22	WG1211567
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 18:22	WG1211567
Styrene	U		0.117	0.500	1	12/16/2018 18:22	WG1211567
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 18:22	WG1211567
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 18:22	WG1211567
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 18:22	WG1211567
Tetrachloroethene	U		0.199	0.500	1	12/18/2018 02:52	WG1212222
Toluene	U		0.412	0.500	1	12/16/2018 18:22	WG1211567
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 18:22	WG1211567
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 18:22	WG1211567
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 18:22	WG1211567
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 18:22	WG1211567
Trichloroethene	U		0.153	0.500	1	12/18/2018 02:52	WG1212222
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 18:22	WG1211567
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 18:22	WG1211567
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 18:22	WG1211567
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 18:22	WG1211567
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 18:22	WG1211567
Vinyl acetate	U		0.645	5.00	1	12/16/2018 18:22	WG1211567
Vinyl chloride	0.520		0.118	0.500	1	12/16/2018 18:22	WG1211567
Xylenes, Total	U		0.316	1.50	1	12/16/2018 18:22	WG1211567
(S) Toluene-d8	*104*			*80.0-120*		*12/16/2018 18:22*	WG1211567
(S) Toluene-d8	*108*			*80.0-120*		*12/18/2018 02:52*	WG1212222
(S) Dibromofluoromethane	*107*			*75.0-120*		*12/16/2018 18:22*	WG1211567
(S) Dibromofluoromethane	*91.6*			*75.0-120*		*12/18/2018 02:52*	WG1212222
(S) 4-Bromofluorobenzene	*87.8*			*77.0-126*		*12/16/2018 18:22*	WG1211567
(S) 4-Bromofluorobenzene	*96.1*			*77.0-126*		*12/18/2018 02:52*	WG1212222

JC 1/21/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U	UJ	158	500	5	12/17/2018 09:23	WG1211718
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*12/17/2018 09:23*	WG1211718

Sample Narrative:

L1053394-03 WG1211718: Lowest possible dilution doe to sample foaming.

JC 1/21/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.12	J	1.05	25.0	1	12/18/2018 01:54	WG1212222
Acrylonitrile	U		0.873	5.00	1	12/16/2018 17:26	WG1211567
Benzene	U		0.0896	0.500	1	12/16/2018 17:26	WG1211567
Bromobenzene	U		0.133	0.500	1	12/16/2018 17:26	WG1211567
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 17:26	WG1211567
Bromochloromethane	U		0.145	0.500	1	12/16/2018 17:26	WG1211567
Bromoform	U		0.186	0.500	1	12/16/2018 17:26	WG1211567
Bromomethane	U		0.157	2.50	1	12/16/2018 17:26	WG1211567
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 17:26	WG1211567
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 17:26	WG1211567
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 17:26	WG1211567
Carbon disulfide	U		0.101	0.500	1	12/16/2018 17:26	WG1211567
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 17:26	WG1211567
Chlorobenzene	U		0.140	0.500	1	12/16/2018 17:26	WG1211567
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 17:26	WG1211567
Chloroethane	U		0.141	2.50	1	12/16/2018 17:26	WG1211567
Chloroform	U		0.0860	0.500	1	12/16/2018 17:26	WG1211567
Chloromethane	U		0.153	1.25	1	12/16/2018 17:26	WG1211567
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 17:26	WG1211567
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 17:26	WG1211567
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 17:26	WG1211567
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 17:26	WG1211567
Dibromomethane	U		0.117	0.500	1	12/16/2018 17:26	WG1211567
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 17:26	WG1211567
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 17:26	WG1211567
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 17:26	WG1211567
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 17:26	WG1211567
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 17:26	WG1211567
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 17:26	WG1211567
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 17:26	WG1211567
cis-1,2-Dichloroethene	1.80		0.0933	0.500	1	12/18/2018 01:54	WG1212222
trans-1,2-Dichloroethene	0.463	J	0.152	0.500	1	12/16/2018 17:26	WG1211567
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 17:26	WG1211567
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 17:26	WG1211567
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 17:26	WG1211567
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 17:26	WG1211567
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 17:26	WG1211567
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 17:26	WG1211567
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 17:26	WG1211567
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 17:26	WG1211567
Ethylbenzene	U		0.158	0.500	1	12/16/2018 17:26	WG1211567
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 17:26	WG1211567
2-Hexanone	U		0.757	5.00	1	12/16/2018 17:26	WG1211567
n-Hexane	U		0.305	5.00	1	12/16/2018 17:26	WG1211567
Iodomethane	U		0.377	10.0	1	12/16/2018 17:26	WG1211567

W-MW-02-121218

Collected date/time: 12/12/18 14:25

SAMPLE RESULTS - 03

L1053394

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 17:26	WG1211567
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 17:26	WG1211567
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 17:26	WG1211567
Methylene Chloride	U		1.07	2.50	1	12/16/2018 17:26	WG1211567
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 17:26	WG1211567
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 17:26	WG1211567
Naphthalene	U		0.174	2.50	1	12/16/2018 17:26	WG1211567
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 17:26	WG1211567
Styrene	U		0.117	0.500	1	12/16/2018 17:26	WG1211567
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 17:26	WG1211567
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 17:26	WG1211567
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 17:26	WG1211567
Tetrachloroethene	U		0.199	0.500	1	12/18/2018 01:54	WG1212222
Toluene	1.05		0.412	0.500	1	12/16/2018 17:26	WG1211567
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 17:26	WG1211567
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 17:26	WG1211567
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 17:26	WG1211567
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 17:26	WG1211567
Trichloroethene	U		0.153	0.500	1	12/18/2018 01:54	WG1212222
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 17:26	WG1211567
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 17:26	WG1211567
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 17:26	WG1211567
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 17:26	WG1211567
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 17:26	WG1211567
Vinyl acetate	U		0.645	5.00	1	12/16/2018 17:26	WG1211567
Vinyl chloride	2.30		0.118	0.500	1	12/16/2018 17:26	WG1211567
Xylenes, Total	U		0.316	1.50	1	12/16/2018 17:26	WG1211567
(S) Toluene-d8	*106*			*80.0-120*		*12/16/2018 17:26*	WG1211567
(S) Toluene-d8	*107*			*80.0-120*		*12/18/2018 01:54*	WG1212222
(S) Dibromofluoromethane	*106*			*75.0-120*		*12/16/2018 17:26*	WG1211567
(S) Dibromofluoromethane	*89.4*			*75.0-120*		*12/18/2018 01:54*	WG1212222
(S) 4-Bromofluorobenzene	*88.5*			*77.0-126*		*12/16/2018 17:26*	WG1211567
(S) 4-Bromofluorobenzene	*98.3*			*77.0-126*		*12/18/2018 01:54*	WG1212222

JC 1/21/19

MW-151-121418
Collected date/time: 12/14/18 08:20

SAMPLE RESULTS - 01

L1053462

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	618000		2710	20000	1	12/21/2018 12:16	WG1213167

Sample Narrative:

L1053462-01 WG1213167: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	32200		51.9	1000	1	12/15/2018 15:09	WG1211292
Nitrate	U		22.7	100	1	12/15/2018 15:09	WG1211292
Sulfate	702000		774	50000	10	12/15/2018 15:19	WG1211292

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	335000		1020	10000	10	12/31/2018 16:36	WG1217442

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	138000		75.0	500	5	12/19/2018 15:53	WG1212648
Manganese	11800		1.25	25.0	5	12/19/2018 15:53	WG1212648

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1040		31.6	100	1	12/18/2018 23:24	WG1212191
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*12/18/2018 23:24*	WG1212191

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	18900		2.87	6.78	10	12/19/2018 15:04	WG1212739
Ethane	68.4		0.296	1.29	1	12/19/2018 14:54	WG1212739
Ethene	101		0.422	1.27	1	12/19/2018 14:54	WG1212739

JC 1/21/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	299000		2710	20000	1	12/21/2018 12:25	WG1213167

Sample Narrative:

L1053462-02 WG1213167: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	181000		260	5000	5	12/15/2018 15:41	WG1211292
Nitrate	U		22.7	100	1	12/15/2018 15:30	WG1211292
Sulfate	31600		77.4	5000	1	12/15/2018 15:30	WG1211292

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	16900		102	1000	1	12/29/2018 07:36	WG1216816

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3820		15.0	100	1	12/19/2018 15:02	WG1212648
Manganese	1460	V	0.250	5.00	1	12/19/2018 15:02	WG1212648

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	47300		316	1000	10	12/18/2018 23:45	WG1212191
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*12/18/2018 23:45*	WG1212191

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3710		0.287	0.678	1	12/19/2018 14:56	WG1212739
Ethane	32.2		0.296	1.29	1	12/19/2018 14:56	WG1212739
Ethene	2050		0.422	1.27	1	12/19/2018 14:56	WG1212739

JC 1/21/19

MW-151-121418

Collected date/time: 12/14/18 08:20

SAMPLE RESULTS - 03

L1053462

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	16.6	J	1.05	25.0	1	12/16/2018 17:52	WG1211777
Acrylonitrile	U		0.873	5.00	1	12/16/2018 17:52	WG1211777
Benzene	0.342	J	0.0896	0.500	1	12/16/2018 17:52	WG1211777
Bromobenzene	U	~~J4~~	0.133	0.500	1	12/16/2018 17:52	WG1211777
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 17:52	WG1211777
Bromochloromethane	U		0.145	0.500	1	12/16/2018 17:52	WG1211777
Bromoform	U		0.186	0.500	1	12/16/2018 17:52	WG1211777
Bromomethane	U		0.157	2.50	1	12/16/2018 17:52	WG1211777
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 17:52	WG1211777
sec-Butylbenzene	U	~~J3~~	0.134	0.500	1	12/16/2018 17:52	WG1211777
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 17:52	WG1211777
Carbon disulfide	4.43		0.101	0.500	1	12/16/2018 17:52	WG1211777
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 17:52	WG1211777
Chlorobenzene	U		0.140	0.500	1	12/16/2018 17:52	WG1211777
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 17:52	WG1211777
Chloroethane	2.63		0.141	2.50	1	12/16/2018 17:52	WG1211777
Chloroform	0.285	J	0.0860	0.500	1	12/16/2018 17:52	WG1211777
Chloromethane	U		0.153	1.25	1	12/16/2018 17:52	WG1211777
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 17:52	WG1211777
4-Chlorotoluene	U	~~J4~~	0.0972	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 17:52	WG1211777
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 17:52	WG1211777
Dibromomethane	U		0.117	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 17:52	WG1211777
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 17:52	WG1211777
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 17:52	WG1211777
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 17:52	WG1211777
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 17:52	WG1211777
1,1-Dichloroethene	7.05		0.188	0.500	1	12/16/2018 17:52	WG1211777
cis-1,2-Dichloroethene	1690		4.66	25.0	50	12/17/2018 23:32	WG1212243
trans-1,2-Dichloroethene	4.56		0.152	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 17:52	WG1211777
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 17:52	WG1211777
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 17:52	WG1211777
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 17:52	WG1211777
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 17:52	WG1211777
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 17:52	WG1211777
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 17:52	WG1211777
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 17:52	WG1211777
Ethylbenzene	U		0.158	0.500	1	12/16/2018 17:52	WG1211777
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 17:52	WG1211777
2-Hexanone	U		0.757	5.00	1	12/16/2018 17:52	WG1211777
n-Hexane	U		0.305	5.00	1	12/16/2018 17:52	WG1211777
Iodomethane	U		0.377	10.0	1	12/16/2018 17:52	WG1211777
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 17:52	WG1211777
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 17:52	WG1211777
2-Butanone (MEK)	4.26	J	1.28	5.00	1	12/16/2018 17:52	WG1211777
Methylene Chloride	U		1.07	2.50	1	12/16/2018 17:52	WG1211777
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 17:52	WG1211777
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 17:52	WG1211777
Naphthalene	U		0.174	2.50	1	12/16/2018 17:52	WG1211777
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 17:52	WG1211777
Styrene	U		0.117	0.500	1	12/16/2018 17:52	WG1211777
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 17:52	WG1211777
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 17:52	WG1211777

JC 1/21/19

MW-151-121418

Collected date/time: 12/14/18 08:20

SAMPLE RESULTS - 03

L1053462

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 17:52	WG1211777
Tetrachloroethene	1460		9.95	25.0	50	12/17/2018 23:32	WG1212243
Toluene	0.440	J	0.412	0.500	1	12/16/2018 17:52	WG1211777
1,2,3-Trichlorobenzene	U	UJ J0	0.164	0.500	1	12/16/2018 17:52	WG1211777
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 17:52	WG1211777
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 17:52	WG1211777
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 17:52	WG1211777
Trichloroethene	155		0.153	0.500	1	12/16/2018 17:52	WG1211777
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 17:52	WG1211777
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 17:52	WG1211777
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 17:52	WG1211777
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 17:52	WG1211777
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 17:52	WG1211777
Vinyl acetate	U		0.645	5.00	1	12/16/2018 17:52	WG1211777
Vinyl chloride	530		5.90	25.0	50	12/17/2018 23:32	WG1212243
Xylenes, Total	U		0.316	1.50	1	12/16/2018 17:52	WG1211777
(S) Toluene-d8	*92.1*			*80.0-120*		*12/16/2018 17:52*	WG1211777
(S) Toluene-d8	*108*			*80.0-120*		*12/17/2018 23:32*	WG1212243
(S) Dibromofluoromethane	*97.2*			*75.0-120*		*12/16/2018 17:52*	WG1211777
(S) Dibromofluoromethane	*107*			*75.0-120*		*12/17/2018 23:32*	WG1212243
(S) 4-Bromofluorobenzene	*125*			*77.0-126*		*12/16/2018 17:52*	WG1211777
(S) 4-Bromofluorobenzene	*94.2*			*77.0-126*		*12/17/2018 23:32*	WG1212243

JC 1/21/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		26.2	625	25	12/16/2018 18:11	WG1211777
Acrylonitrile	U		21.8	125	25	12/16/2018 18:11	WG1211777
Benzene	U		2.24	12.5	25	12/16/2018 18:11	WG1211777
Bromobenzene	U	~~J4~~	3.32	12.5	25	12/16/2018 18:11	WG1211777
Bromodichloromethane	U		2.00	12.5	25	12/16/2018 18:11	WG1211777
Bromochloromethane	U		3.62	12.5	25	12/16/2018 18:11	WG1211777
Bromoform	U		4.65	12.5	25	12/16/2018 18:11	WG1211777
Bromomethane	U		3.92	62.5	25	12/16/2018 18:11	WG1211777
n-Butylbenzene	U		3.58	12.5	25	12/16/2018 18:11	WG1211777
sec-Butylbenzene	U	~~J3~~	3.35	12.5	25	12/16/2018 18:11	WG1211777
tert-Butylbenzene	U		4.58	12.5	25	12/16/2018 18:11	WG1211777
Carbon disulfide	13.7 J+		2.52	12.5	25	12/16/2018 18:11	WG1211777
Carbon tetrachloride	U		3.98	12.5	25	12/16/2018 18:11	WG1211777
Chlorobenzene	U		3.50	12.5	25	12/16/2018 18:11	WG1211777
Chlorodibromomethane	U		3.20	12.5	25	12/16/2018 18:11	WG1211777
Chloroethane	U		3.52	62.5	25	12/16/2018 18:11	WG1211777
Chloroform	U		2.15	12.5	25	12/16/2018 18:11	WG1211777
Chloromethane	U		3.82	31.3	25	12/16/2018 18:11	WG1211777
2-Chlorotoluene	U		2.78	12.5	25	12/16/2018 18:11	WG1211777
4-Chlorotoluene	U	~~J4~~	2.43	12.5	25	12/16/2018 18:11	WG1211777
1,2-Dibromo-3-Chloropropane	U		8.12	62.5	25	12/16/2018 18:11	WG1211777
1,2-Dibromoethane	U		4.82	12.5	25	12/16/2018 18:11	WG1211777
Dibromomethane	U		2.92	12.5	25	12/16/2018 18:11	WG1211777
1,2-Dichlorobenzene	U		2.52	12.5	25	12/16/2018 18:11	WG1211777
1,3-Dichlorobenzene	U		3.25	12.5	25	12/16/2018 18:11	WG1211777
1,4-Dichlorobenzene	U		3.02	12.5	25	12/16/2018 18:11	WG1211777
Dichlorodifluoromethane	U		3.18	62.5	25	12/16/2018 18:11	WG1211777
1,1-Dichloroethane	U		2.85	12.5	25	12/16/2018 18:11	WG1211777
1,2-Dichloroethane	U		2.70	12.5	25	12/16/2018 18:11	WG1211777
1,1-Dichloroethene	108 J+		4.70	12.5	25	12/16/2018 18:11	WG1211777
cis-1,2-Dichloroethene	77100 J+		187	1000	2000	12/17/2018 23:53	WG1212243
trans-1,2-Dichloroethene	134 J+		3.80	12.5	25	12/16/2018 18:11	WG1211777
1,2-Dichloropropane	U		4.75	12.5	25	12/16/2018 18:11	WG1211777
1,1-Dichloropropene	U		3.20	12.5	25	12/16/2018 18:11	WG1211777
1,3-Dichloropropane	U		3.68	25.0	25	12/16/2018 18:11	WG1211777
cis-1,3-Dichloropropene	U		2.44	12.5	25	12/16/2018 18:11	WG1211777
trans-1,3-Dichloropropene	U		5.55	12.5	25	12/16/2018 18:11	WG1211777
trans-1,4-Dichloro-2-butene	U		6.42	125	25	12/16/2018 18:11	WG1211777
2,2-Dichloropropane	U		2.32	12.5	25	12/16/2018 18:11	WG1211777
Di-isopropyl ether	U		2.31	12.5	25	12/16/2018 18:11	WG1211777
Ethylbenzene	U		3.95	12.5	25	12/16/2018 18:11	WG1211777
Hexachloro-1,3-butadiene	U		3.92	25.0	25	12/16/2018 18:11	WG1211777
2-Hexanone	U		18.9	125	25	12/16/2018 18:11	WG1211777
n-Hexane	U		7.62	125	25	12/16/2018 18:11	WG1211777
Iodomethane	U		9.42	250	25	12/16/2018 18:11	WG1211777
Isopropylbenzene	U		3.15	12.5	25	12/16/2018 18:11	WG1211777
p-Isopropyltoluene	U		3.45	12.5	25	12/16/2018 18:11	WG1211777
2-Butanone (MEK)	U		32.0	125	25	12/16/2018 18:11	WG1211777
Methylene Chloride	U		26.8	62.5	25	12/16/2018 18:11	WG1211777
4-Methyl-2-pentanone (MIBK)	U		20.6	125	25	12/16/2018 18:11	WG1211777
Methyl tert-butyl ether	U		2.55	12.5	25	12/16/2018 18:11	WG1211777
Naphthalene	U		4.35	62.5	25	12/16/2018 18:11	WG1211777
n-Propylbenzene	U		4.05	12.5	25	12/16/2018 18:11	WG1211777
Styrene	U		2.92	12.5	25	12/16/2018 18:11	WG1211777
1,1,1,2-Tetrachloroethane	U		3.00	12.5	25	12/16/2018 18:11	WG1211777
1,1,2,2-Tetrachloroethane	U		3.25	12.5	25	12/16/2018 18:11	WG1211777

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U			4.10	12.5	25	12/16/2018 18:11	WG1211777
Tetrachloroethene	23600	J+		398	1000	2000	12/17/2018 23:53	WG1212243
Toluene	U			10.3	12.5	25	12/16/2018 18:11	WG1211777
1,2,3-Trichlorobenzene	U	UJ	J0	4.10	12.5	25	12/16/2018 18:11	WG1211777
1,2,4-Trichlorobenzene	U			8.88	12.5	25	12/16/2018 18:11	WG1211777
1,1,1-Trichloroethane	U			2.35	12.5	25	12/16/2018 18:11	WG1211777
1,1,2-Trichloroethane	U			4.65	12.5	25	12/16/2018 18:11	WG1211777
Trichloroethene	6870	J+		306	1000	2000	12/17/2018 23:53	WG1212243
Trichlorofluoromethane	U			3.25	62.5	25	12/16/2018 18:11	WG1211777
1,2,3-Trichloropropane	U			6.18	62.5	25	12/16/2018 18:11	WG1211777
1,2,4-Trimethylbenzene	3.49	U	B J	3.08	12.5	25	12/16/2018 18:11	WG1211777
1,2,3-Trimethylbenzene	U			1.85	12.5	25	12/16/2018 18:11	WG1211777
1,3,5-Trimethylbenzene	U			3.10	12.5	25	12/16/2018 18:11	WG1211777
Vinyl acetate	U			16.1	125	25	12/16/2018 18:11	WG1211777
Vinyl chloride	7830	J+		236	1000	2000	12/17/2018 23:53	WG1212243
Xylenes, Total	U			7.90	37.5	25	12/16/2018 18:11	WG1211777
(S) Toluene-d8	*97.7*				*80.0-120*		*12/16/2018 18:11*	WG1211777
(S) Toluene-d8	*107*				*80.0-120*		*12/17/2018 23:53*	WG1212243
(S) Dibromofluoromethane	*103*				*75.0-120*		*12/16/2018 18:11*	WG1211777
(S) Dibromofluoromethane	*106*				*75.0-120*		*12/17/2018 23:53*	WG1212243
(S) 4-Bromofluorobenzene	*137*		J1		*77.0-126*		*12/16/2018 18:11*	WG1211777
(S) 4-Bromofluorobenzene	*93.1*				*77.0-126*		*12/17/2018 23:53*	WG1212243

Sample Narrative:

L1053462-04 WG1211777: Diluted due to high levels of target analytes.

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	12/18/2018 15:16	WG1212450
Acrylonitrile	U		0.873	5.00	1	12/18/2018 15:16	WG1212450
Benzene	U		0.0896	0.500	1	12/18/2018 15:16	WG1212450
Bromobenzene	U		0.133	0.500	1	12/18/2018 15:16	WG1212450
Bromodichloromethane	U		0.0800	0.500	1	12/18/2018 15:16	WG1212450
Bromochloromethane	U		0.145	0.500	1	12/18/2018 15:16	WG1212450
Bromoform	U		0.186	0.500	1	12/18/2018 15:16	WG1212450
Bromomethane	U		0.157	2.50	1	12/18/2018 15:16	WG1212450
n-Butylbenzene	U		0.143	0.500	1	12/18/2018 15:16	WG1212450
sec-Butylbenzene	U		0.134	0.500	1	12/18/2018 15:16	WG1212450
tert-Butylbenzene	U		0.183	0.500	1	12/18/2018 15:16	WG1212450
Carbon disulfide	U		0.101	0.500	1	12/18/2018 15:16	WG1212450
Carbon tetrachloride	U		0.159	0.500	1	12/18/2018 15:16	WG1212450
Chlorobenzene	U		0.140	0.500	1	12/18/2018 15:16	WG1212450
Chlorodibromomethane	U		0.128	0.500	1	12/18/2018 15:16	WG1212450
Chloroethane	U		0.141	2.50	1	12/18/2018 15:16	WG1212450
Chloroform	U		0.0860	0.500	1	12/18/2018 15:16	WG1212450
Chloromethane	U		0.153	1.25	1	12/18/2018 15:16	WG1212450
2-Chlorotoluene	U		0.111	0.500	1	12/18/2018 15:16	WG1212450
4-Chlorotoluene	U		0.0972	0.500	1	12/18/2018 15:16	WG1212450
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/18/2018 15:16	WG1212450
1,2-Dibromoethane	U		0.193	0.500	1	12/18/2018 15:16	WG1212450
Dibromomethane	U		0.117	0.500	1	12/18/2018 15:16	WG1212450
1,2-Dichlorobenzene	U		0.101	0.500	1	12/18/2018 15:16	WG1212450
1,3-Dichlorobenzene	U		0.130	0.500	1	12/18/2018 15:16	WG1212450
1,4-Dichlorobenzene	U		0.121	0.500	1	12/18/2018 15:16	WG1212450
Dichlorodifluoromethane	U	UJ J0	0.127	2.50	1	12/18/2018 15:16	WG1212450
1,1-Dichloroethane	U		0.114	0.500	1	12/18/2018 15:16	WG1212450
1,2-Dichloroethane	U		0.108	0.500	1	12/18/2018 15:16	WG1212450
1,1-Dichloroethene	U		0.188	0.500	1	12/18/2018 15:16	WG1212450
cis-1,2-Dichloroethene	U		0.0933	0.500	1	12/18/2018 15:16	WG1212450
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/18/2018 15:16	WG1212450
1,2-Dichloropropane	U		0.190	0.500	1	12/18/2018 15:16	WG1212450
1,1-Dichloropropene	U		0.128	0.500	1	12/18/2018 15:16	WG1212450
1,3-Dichloropropane	U		0.147	1.00	1	12/18/2018 15:16	WG1212450
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/18/2018 15:16	WG1212450
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/18/2018 15:16	WG1212450
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/18/2018 15:16	WG1212450
2,2-Dichloropropane	U	UJ J0	0.0929	0.500	1	12/18/2018 15:16	WG1212450
Di-isopropyl ether	U		0.0924	0.500	1	12/18/2018 15:16	WG1212450
Ethylbenzene	U		0.158	0.500	1	12/18/2018 15:16	WG1212450
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/18/2018 15:16	WG1212450
2-Hexanone	U		0.757	5.00	1	12/18/2018 15:16	WG1212450
n-Hexane	U		0.305	5.00	1	12/18/2018 15:16	WG1212450
Iodomethane	U		0.377	10.0	1	12/18/2018 15:16	WG1212450
Isopropylbenzene	U		0.126	0.500	1	12/18/2018 15:16	WG1212450
p-Isopropyltoluene	U		0.138	0.500	1	12/18/2018 15:16	WG1212450
2-Butanone (MEK)	U		1.28	5.00	1	12/18/2018 15:16	WG1212450
Methylene Chloride	U		1.07	2.50	1	12/18/2018 15:16	WG1212450
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/18/2018 15:16	WG1212450
Methyl tert-butyl ether	U		0.102	0.500	1	12/18/2018 15:16	WG1212450
Naphthalene	U		0.174	2.50	1	12/18/2018 15:16	WG1212450
n-Propylbenzene	U		0.162	0.500	1	12/18/2018 15:16	WG1212450
Styrene	U		0.117	0.500	1	12/18/2018 15:16	WG1212450
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/18/2018 15:16	WG1212450
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/18/2018 15:16	WG1212450

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TRIP BLANK

Collected date/time: 12/14/18 00:00

SAMPLE RESULTS - 05

L1053462

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	12/18/2018 15:16	WG1212450
Tetrachloroethene	U			0.199	0.500	1	12/18/2018 15:16	WG1212450
Toluene	U			0.412	0.500	1	12/18/2018 15:16	WG1212450
1,2,3-Trichlorobenzene	U			0.164	0.500	1	12/18/2018 15:16	WG1212450
1,2,4-Trichlorobenzene	U			0.355	0.500	1	12/18/2018 15:16	WG1212450
1,1,1-Trichloroethane	U			0.0940	0.500	1	12/18/2018 15:16	WG1212450
1,1,2-Trichloroethane	U			0.186	0.500	1	12/18/2018 15:16	WG1212450
Trichloroethene	U			0.153	0.500	1	12/18/2018 15:16	WG1212450
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	12/18/2018 15:16	WG1212450
1,2,3-Trichloropropane	U			0.247	2.50	1	12/18/2018 15:16	WG1212450
1,2,4-Trimethylbenzene	U			0.123	0.500	1	12/18/2018 15:16	WG1212450
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	12/18/2018 15:16	WG1212450
1,3,5-Trimethylbenzene	U			0.124	0.500	1	12/18/2018 15:16	WG1212450
Vinyl acetate	U			0.645	5.00	1	12/18/2018 15:16	WG1212450
Vinyl chloride	U			0.118	0.500	1	12/18/2018 15:16	WG1212450
Xylenes, Total	U			0.316	1.50	1	12/18/2018 15:16	WG1212450
(S) Toluene-d8	*107*				*80.0-120*		*12/18/2018 15:16*	WG1212450
(S) Dibromofluoromethane	*88.5*				*75.0-120*		*12/18/2018 15:16*	WG1212450
(S) 4-Bromofluorobenzene	*96.7*				*77.0-126*		*12/18/2018 15:16*	WG1212450

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MEMORANDUM

TO:	Project File	**DATE:**	January 23, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.601

TASK: EIM Data Validation Level EPA2A for December 2018 - Groundwater Samples

LAB: Pace Sample Delivery Groups L1055718 and L1057965

Three (3) groundwater samples including and two trip blanks were collected as part of the Round 3 Interim Action Compliance Monitoring Data at the Former American Linen Supply Site, in Seattle, Washington, on December 21, 2018 and January 3, 2019. The samples were shipped and delivered to PACE Lab Sciences (PACE) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (Chloride, Nitrate, and Sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020A.

Associated sample data are reported in two Pace SDGs (SDGs L1055718 and L1057965). The quality assurance review of the sample data are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with PACE control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria were met.

NWTPH-Gx Method:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

USEPA Method 6020A:
All samples were analyzed within the USEPA recommended holding time for arsenic of 180 days for preserved waters from the date of sample collection. All holding time criteria were met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria were met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDG L1057965 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by PACE for trans-1,4-dichloro-2-butene associated with analytical batch WG1219077 (analyzed on January 4, 2019). Associated samples results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample trans-1,4-dichloro-2-butene result with laboratory qualified (J0) result is estimated and qualified (UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks are included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1057965 - Analytical batch WG1219077: A low level of naphthalene was detected in the method blank. No action was necessary as naphthalene was not detected in the associated sample.

- SDG L1055718 - Analytical batch WG1215942: Low levels of naphthalene and 1,2,4-trimethylbenzene were detected in the method blank. No action was necessary as naphthalene and 1,2,4-trimethylbenzene were not detected in the associated samples.

NWTPH-Gx Method:
Laboratory method blanks are included with the analytical batches per method requirement. The target analyte (gasoline) is not detected in the method blanks.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks are included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020A:
Laboratory method blanks are included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the RDLs.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks are included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1055718 - Analytical batch WG1218198: Alkalinity was detected at a low level in the method blank. No action was necessary as the alkalinity detection in the associated sample is far greater than the detection in the method blank.

- SDG L1057965 - Analytical batch WG1220272: Alkalinity was detected at a low level in the method blank. No action was necessary as alkalinity detections in the associated samples are far greater than the detection in the method blank.

- SDG L1055718 - Analytical batch WG1218534: Total organic carbon (TOC) was detected at a low level in the method blank. No action was necessary as the TOC detection in the associated sample is are far greater than the detection in the method blank.

- SDG L1057965 - Analytical batch WG1220033: Total organic carbon (TOC) was detected at a low level in the method blank. No action was necessary as the TOC detection in the associated sample is are far greater than the detection in the method blank.

Trip Blank Results

USEPA Method 8260C:
Two trip blanks were collected and analyzed for VOCs. The target analytes were not detected in the trip blanks at or above the RDLs with the following exceptions:

- SDG L1055718 - Analytical batch WG1215942: Low levels of benzene, naphthalene and trichloroethene are detected in the trip blank. No action was necessary since benzene, naphthalene, and trichloroethene are not detected in the associated sample.

Field, Rinsate, or Equipment Blank Results

USEPA Method 8260Cand NWTPH-Gx Method:
Field, rinsate, and equipment blanks were not collected.

Field Duplicate Analyses

No field duplicates were collected.

Laboratory Duplicate Analyses

USEPA Method 8260C:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

NWTPH-Gx Method:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batch. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020A:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicate (MS/MSDs) results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blank, and the method blank are within the laboratory surrogate control limits for all of the analyses.

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blank, and the method blank are within the laboratory surrogate control limits for all of the analyses.

Laboratory Control Samples

USEPA Method 8260C:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters.

NWTPH-Gx Method:

The LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD %Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020A:
The LCS/LCSD %Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS or LCS/LCSD %Rs and RPDs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and/or field duplicate data for accuracy and precision data.

NWTPH-Gx Method:

MS/MSD analyses were performed on non-client samples within the analytical batches. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data.

USEPA Method 6020A:
MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS/MSD analyses were performed on non-client samples within the analytical batches. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- SDGs L1055718 and L1057965: Selected sample narratives for alkalinity results indicate that several sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Quantitation Limits

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	125000		2710	20000	1	01/09/2019 11:14	WG1220272

Sample Narrative:

L1057965-01 WG1220272: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	14100		51.9	1000	1	01/04/2019 19:25	WG1218970
Nitrate	U		22.7	100	1	01/04/2019 19:25	WG1218970
Sulfate	47500		77.4	5000	1	01/04/2019 19:25	WG1218970

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3900		102	1000	1	01/08/2019 02:06	WG1220033

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2190		15.0	100	1	01/07/2019 21:24	WG1219455
Manganese	375		0.250	5.00	1	01/08/2019 21:59	WG1220618

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/05/2019 09:28	WG1218990
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*01/05/2019 09:28*	WG1218990

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	61.3		0.287	0.678	1	01/09/2019 13:23	WG1220690
Ethane	0.621 J	J	0.296	1.29	1	01/09/2019 13:23	WG1220690
Ethene	0.573 J	J	0.422	1.27	1	01/09/2019 13:23	WG1220690

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/04/2019 16:23	WG1219077
Acrylonitrile	U		0.873	5.00	1	01/04/2019 16:23	WG1219077
Benzene	U		0.0896	0.500	1	01/04/2019 16:23	WG1219077
Bromobenzene	U		0.133	0.500	1	01/04/2019 16:23	WG1219077
Bromodichloromethane	U		0.0800	0.500	1	01/04/2019 16:23	WG1219077
Bromochloromethane	U		0.145	0.500	1	01/04/2019 16:23	WG1219077
Bromoform	U		0.186	0.500	1	01/04/2019 16:23	WG1219077
Bromomethane	U		0.157	2.50	1	01/04/2019 16:23	WG1219077
n-Butylbenzene	U		0.143	0.500	1	01/04/2019 16:23	WG1219077
sec-Butylbenzene	U		0.134	0.500	1	01/04/2019 16:23	WG1219077
tert-Butylbenzene	U		0.183	0.500	1	01/04/2019 16:23	WG1219077
Carbon disulfide	U		0.101	0.500	1	01/04/2019 16:23	WG1219077
Carbon tetrachloride	U		0.159	0.500	1	01/04/2019 16:23	WG1219077

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/04/2019 16:23	WG1219077
Chlorodibromomethane	U		0.128	0.500	1	01/04/2019 16:23	WG1219077
Chloroethane	U		0.141	2.50	1	01/04/2019 16:23	WG1219077
Chloroform	U		0.0860	0.500	1	01/04/2019 16:23	WG1219077
Chloromethane	U		0.153	1.25	1	01/04/2019 16:23	WG1219077
2-Chlorotoluene	U		0.111	0.500	1	01/04/2019 16:23	WG1219077
4-Chlorotoluene	U		0.0972	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/04/2019 16:23	WG1219077
1,2-Dibromoethane	U		0.193	0.500	1	01/04/2019 16:23	WG1219077
Dibromomethane	U		0.117	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dichlorobenzene	U		0.101	0.500	1	01/04/2019 16:23	WG1219077
1,3-Dichlorobenzene	U		0.130	0.500	1	01/04/2019 16:23	WG1219077
1,4-Dichlorobenzene	U		0.121	0.500	1	01/04/2019 16:23	WG1219077
Dichlorodifluoromethane	U		0.127	2.50	1	01/04/2019 16:23	WG1219077
1,1-Dichloroethane	U		0.114	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dichloroethane	U		0.108	0.500	1	01/04/2019 16:23	WG1219077
1,1-Dichloroethene	U		0.188	0.500	1	01/04/2019 16:23	WG1219077
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/04/2019 16:23	WG1219077
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dichloropropane	U		0.190	0.500	1	01/04/2019 16:23	WG1219077
1,1-Dichloropropene	U		0.128	0.500	1	01/04/2019 16:23	WG1219077
1,3-Dichloropropane	U		0.147	1.00	1	01/04/2019 16:23	WG1219077
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/04/2019 16:23	WG1219077
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/04/2019 16:23	WG1219077
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	01/04/2019 16:23	WG1219077
2,2-Dichloropropane	U		0.0929	0.500	1	01/04/2019 16:23	WG1219077
Di-isopropyl ether	U		0.0924	0.500	1	01/04/2019 16:23	WG1219077
Ethylbenzene	U		0.158	0.500	1	01/04/2019 16:23	WG1219077
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/04/2019 16:23	WG1219077
2-Hexanone	U		0.757	5.00	1	01/04/2019 16:23	WG1219077
n-Hexane	U		0.305	5.00	1	01/04/2019 16:23	WG1219077
Iodomethane	U		0.377	10.0	1	01/04/2019 16:23	WG1219077
Isopropylbenzene	U		0.126	0.500	1	01/04/2019 16:23	WG1219077
p-Isopropyltoluene	U		0.138	0.500	1	01/04/2019 16:23	WG1219077
2-Butanone (MEK)	U		1.28	5.00	1	01/04/2019 16:23	WG1219077
Methylene Chloride	U		1.07	2.50	1	01/04/2019 16:23	WG1219077
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/04/2019 16:23	WG1219077
Methyl tert-butyl ether	U		0.102	0.500	1	01/04/2019 16:23	WG1219077
Naphthalene	U		0.174	2.50	1	01/04/2019 16:23	WG1219077
n-Propylbenzene	U		0.162	0.500	1	01/04/2019 16:23	WG1219077
Styrene	U		0.117	0.500	1	01/04/2019 16:23	WG1219077
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/04/2019 16:23	WG1219077
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/04/2019 16:23	WG1219077
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/04/2019 16:23	WG1219077
Tetrachloroethene	U		0.199	0.500	1	01/04/2019 16:23	WG1219077
Toluene	0.442 J	J	0.412	0.500	1	01/04/2019 16:23	WG1219077
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/04/2019 16:23	WG1219077
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/04/2019 16:23	WG1219077
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/04/2019 16:23	WG1219077
1,1,2-Trichloroethane	U		0.186	0.500	1	01/04/2019 16:23	WG1219077
Trichloroethene	U		0.153	0.500	1	01/04/2019 16:23	WG1219077
Trichlorofluoromethane	U		0.130	2.50	1	01/04/2019 16:23	WG1219077
1,2,3-Trichloropropane	U		0.247	2.50	1	01/04/2019 16:23	WG1219077
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/04/2019 16:23	WG1219077
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/04/2019 16:23	WG1219077
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/04/2019 16:23	WG1219077

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/04/2019 16:23	WG1219077
Vinyl chloride	U		0.118	0.500	1	01/04/2019 16:23	WG1219077
Xylenes, Total	U		0.316	1.50	1	01/04/2019 16:23	WG1219077
(S) Toluene-d8	*106*			*80.0-120*		*01/04/2019 16:23*	WG1219077
(S) Dibromofluoromethane	*88.6*			*75.0-120*		*01/04/2019 16:23*	WG1219077
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*01/04/2019 16:23*	WG1219077

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	81.5 J	J	31.6	100	1	01/05/2019 09:50	WG1218990
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*01/05/2019 09:50*	WG1218990

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/04/2019 16:43	WG1219077
Acrylonitrile	U		0.873	5.00	1	01/04/2019 16:43	WG1219077
Benzene	U		0.0896	0.500	1	01/04/2019 16:43	WG1219077
Bromobenzene	U		0.133	0.500	1	01/04/2019 16:43	WG1219077
Bromodichloromethane	U		0.0800	0.500	1	01/04/2019 16:43	WG1219077
Bromochloromethane	U		0.145	0.500	1	01/04/2019 16:43	WG1219077
Bromoform	U		0.186	0.500	1	01/04/2019 16:43	WG1219077
Bromomethane	U		0.157	2.50	1	01/04/2019 16:43	WG1219077
n-Butylbenzene	U		0.143	0.500	1	01/04/2019 16:43	WG1219077
sec-Butylbenzene	U		0.134	0.500	1	01/04/2019 16:43	WG1219077
tert-Butylbenzene	U		0.183	0.500	1	01/04/2019 16:43	WG1219077
Carbon disulfide	U		0.101	0.500	1	01/04/2019 16:43	WG1219077
Carbon tetrachloride	U		0.159	0.500	1	01/04/2019 16:43	WG1219077
Chlorobenzene	U		0.140	0.500	1	01/04/2019 16:43	WG1219077
Chlorodibromomethane	U		0.128	0.500	1	01/04/2019 16:43	WG1219077
Chloroethane	U		0.141	2.50	1	01/04/2019 16:43	WG1219077
Chloroform	U		0.0860	0.500	1	01/04/2019 16:43	WG1219077
Chloromethane	U		0.153	1.25	1	01/04/2019 16:43	WG1219077
2-Chlorotoluene	U		0.111	0.500	1	01/04/2019 16:43	WG1219077
4-Chlorotoluene	U		0.0972	0.500	1	01/04/2019 16:43	WG1219077
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/04/2019 16:43	WG1219077
1,2-Dibromoethane	U		0.193	0.500	1	01/04/2019 16:43	WG1219077
Dibromomethane	U		0.117	0.500	1	01/04/2019 16:43	WG1219077
1,2-Dichlorobenzene	U		0.101	0.500	1	01/04/2019 16:43	WG1219077
1,3-Dichlorobenzene	U		0.130	0.500	1	01/04/2019 16:43	WG1219077
1,4-Dichlorobenzene	U		0.121	0.500	1	01/04/2019 16:43	WG1219077
Dichlorodifluoromethane	U		0.127	2.50	1	01/04/2019 16:43	WG1219077
1,1-Dichloroethane	U		0.114	0.500	1	01/04/2019 16:43	WG1219077
1,2-Dichloroethane	U		0.108	0.500	1	01/04/2019 16:43	WG1219077
1,1-Dichloroethene	U		0.188	0.500	1	01/04/2019 16:43	WG1219077
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/04/2019 16:43	WG1219077
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/04/2019 16:43	WG1219077
1,2-Dichloropropane	U		0.190	0.500	1	01/04/2019 16:43	WG1219077
1,1-Dichloropropene	U		0.128	0.500	1	01/04/2019 16:43	WG1219077
1,3-Dichloropropane	U		0.147	1.00	1	01/04/2019 16:43	WG1219077
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/04/2019 16:43	WG1219077
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/04/2019 16:43	WG1219077
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	01/04/2019 16:43	WG1219077
2,2-Dichloropropane	U		0.0929	0.500	1	01/04/2019 16:43	WG1219077
Di-isopropyl ether	U		0.0924	0.500	1	01/04/2019 16:43	WG1219077
Ethylbenzene	U		0.158	0.500	1	01/04/2019 16:43	WG1219077
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/04/2019 16:43	WG1219077
2-Hexanone	U		0.757	5.00	1	01/04/2019 16:43	WG1219077
n-Hexane	U		0.305	5.00	1	01/04/2019 16:43	WG1219077
Iodomethane	U		0.377	10.0	1	01/04/2019 16:43	WG1219077
Isopropylbenzene	U		0.126	0.500	1	01/04/2019 16:43	WG1219077
p-Isopropyltoluene	U		0.138	0.500	1	01/04/2019 16:43	WG1219077
2-Butanone (MEK)	U		1.28	5.00	1	01/04/2019 16:43	WG1219077

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/04/2019 16:43	WG1219077
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/04/2019 16:43	WG1219077
Methyl tert-butyl ether	U		0.102	0.500	1	01/04/2019 16:43	WG1219077
Naphthalene	U		0.174	2.50	1	01/04/2019 16:43	WG1219077
n-Propylbenzene	U		0.162	0.500	1	01/04/2019 16:43	WG1219077
Styrene	U		0.117	0.500	1	01/04/2019 16:43	WG1219077
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/04/2019 16:43	WG1219077
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/04/2019 16:43	WG1219077
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/04/2019 16:43	WG1219077
Tetrachloroethene	0.477 J	J	0.199	0.500	1	01/04/2019 16:43	WG1219077
Toluene	U		0.412	0.500	1	01/04/2019 16:43	WG1219077
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/04/2019 16:43	WG1219077
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/04/2019 16:43	WG1219077
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/04/2019 16:43	WG1219077
1,1,2-Trichloroethane	U		0.186	0.500	1	01/04/2019 16:43	WG1219077
Trichloroethene	U		0.153	0.500	1	01/04/2019 16:43	WG1219077
Trichlorofluoromethane	U		0.130	2.50	1	01/04/2019 16:43	WG1219077
1,2,3-Trichloropropane	U		0.247	2.50	1	01/04/2019 16:43	WG1219077
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/04/2019 16:43	WG1219077
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/04/2019 16:43	WG1219077
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/04/2019 16:43	WG1219077
Vinyl acetate	U		0.645	5.00	1	01/04/2019 16:43	WG1219077
Vinyl chloride	U		0.118	0.500	1	01/04/2019 16:43	WG1219077
Xylenes, Total	U		0.316	1.50	1	01/04/2019 16:43	WG1219077
(S) Toluene-d8	*105*			*80.0-120*		*01/04/2019 16:43*	WG1219077
(S) Dibromofluoromethane	*89.9*			*75.0-120*		*01/04/2019 16:43*	WG1219077
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*01/04/2019 16:43*	WG1219077

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/04/2019 13:13	WG1219077
Acrylonitrile	U		0.873	5.00	1	01/04/2019 13:13	WG1219077
Benzene	U		0.0896	0.500	1	01/04/2019 13:13	WG1219077
Bromobenzene	U		0.133	0.500	1	01/04/2019 13:13	WG1219077
Bromodichloromethane	U		0.0800	0.500	1	01/04/2019 13:13	WG1219077
Bromochloromethane	U		0.145	0.500	1	01/04/2019 13:13	WG1219077
Bromoform	U		0.186	0.500	1	01/04/2019 13:13	WG1219077
Bromomethane	U		0.157	2.50	1	01/04/2019 13:13	WG1219077
n-Butylbenzene	U		0.143	0.500	1	01/04/2019 13:13	WG1219077
sec-Butylbenzene	U		0.134	0.500	1	01/04/2019 13:13	WG1219077
tert-Butylbenzene	U		0.183	0.500	1	01/04/2019 13:13	WG1219077
Carbon disulfide	U		0.101	0.500	1	01/04/2019 13:13	WG1219077
Carbon tetrachloride	U		0.159	0.500	1	01/04/2019 13:13	WG1219077
Chlorobenzene	U		0.140	0.500	1	01/04/2019 13:13	WG1219077
Chlorodibromomethane	U		0.128	0.500	1	01/04/2019 13:13	WG1219077
Chloroethane	U		0.141	2.50	1	01/04/2019 13:13	WG1219077
Chloroform	U		0.0860	0.500	1	01/04/2019 13:13	WG1219077
Chloromethane	U		0.153	1.25	1	01/04/2019 13:13	WG1219077
2-Chlorotoluene	U		0.111	0.500	1	01/04/2019 13:13	WG1219077
4-Chlorotoluene	U		0.0972	0.500	1	01/04/2019 13:13	WG1219077
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/04/2019 13:13	WG1219077
1,2-Dibromoethane	U		0.193	0.500	1	01/04/2019 13:13	WG1219077
Dibromomethane	U		0.117	0.500	1	01/04/2019 13:13	WG1219077
1,2-Dichlorobenzene	U		0.101	0.500	1	01/04/2019 13:13	WG1219077
1,3-Dichlorobenzene	U		0.130	0.500	1	01/04/2019 13:13	WG1219077
1,4-Dichlorobenzene	U		0.121	0.500	1	01/04/2019 13:13	WG1219077
Dichlorodifluoromethane	U		0.127	2.50	1	01/04/2019 13:13	WG1219077
1,1-Dichloroethane	U		0.114	0.500	1	01/04/2019 13:13	WG1219077
1,2-Dichloroethane	U		0.108	0.500	1	01/04/2019 13:13	WG1219077
1,1-Dichloroethene	U		0.188	0.500	1	01/04/2019 13:13	WG1219077
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/04/2019 13:13	WG1219077
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/04/2019 13:13	WG1219077
1,2-Dichloropropane	U		0.190	0.500	1	01/04/2019 13:13	WG1219077
1,1-Dichloropropene	U		0.128	0.500	1	01/04/2019 13:13	WG1219077
1,3-Dichloropropane	U		0.147	1.00	1	01/04/2019 13:13	WG1219077
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/04/2019 13:13	WG1219077
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/04/2019 13:13	WG1219077
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	01/04/2019 13:13	WG1219077
2,2-Dichloropropane	U		0.0929	0.500	1	01/04/2019 13:13	WG1219077
Di-isopropyl ether	U		0.0924	0.500	1	01/04/2019 13:13	WG1219077
Ethylbenzene	U		0.158	0.500	1	01/04/2019 13:13	WG1219077
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/04/2019 13:13	WG1219077
2-Hexanone	U		0.757	5.00	1	01/04/2019 13:13	WG1219077
n-Hexane	U		0.305	5.00	1	01/04/2019 13:13	WG1219077
Iodomethane	U		0.377	10.0	1	01/04/2019 13:13	WG1219077
Isopropylbenzene	U		0.126	0.500	1	01/04/2019 13:13	WG1219077
p-Isopropyltoluene	U		0.138	0.500	1	01/04/2019 13:13	WG1219077
2-Butanone (MEK)	U		1.28	5.00	1	01/04/2019 13:13	WG1219077
Methylene Chloride	U		1.07	2.50	1	01/04/2019 13:13	WG1219077
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/04/2019 13:13	WG1219077
Methyl tert-butyl ether	U		0.102	0.500	1	01/04/2019 13:13	WG1219077
Naphthalene	U		0.174	2.50	1	01/04/2019 13:13	WG1219077
n-Propylbenzene	U		0.162	0.500	1	01/04/2019 13:13	WG1219077
Styrene	U		0.117	0.500	1	01/04/2019 13:13	WG1219077
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/04/2019 13:13	WG1219077
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/04/2019 13:13	WG1219077

JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/04/2019 13:13	WG1219077
Tetrachloroethene	U		0.199	0.500	1	01/04/2019 13:13	WG1219077
Toluene	U		0.412	0.500	1	01/04/2019 13:13	WG1219077
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/04/2019 13:13	WG1219077
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/04/2019 13:13	WG1219077
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/04/2019 13:13	WG1219077
1,1,2-Trichloroethane	U		0.186	0.500	1	01/04/2019 13:13	WG1219077
Trichloroethene	U		0.153	0.500	1	01/04/2019 13:13	WG1219077
Trichlorofluoromethane	U		0.130	2.50	1	01/04/2019 13:13	WG1219077
1,2,3-Trichloropropane	U		0.247	2.50	1	01/04/2019 13:13	WG1219077
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/04/2019 13:13	WG1219077
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/04/2019 13:13	WG1219077
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/04/2019 13:13	WG1219077
Vinyl acetate	U		0.645	5.00	1	01/04/2019 13:13	WG1219077
Vinyl chloride	U		0.118	0.500	1	01/04/2019 13:13	WG1219077
Xylenes, Total	U		0.316	1.50	1	01/04/2019 13:13	WG1219077
(S) Toluene-d8	*107*			*80.0-120*		*01/04/2019 13:13*	WG1219077
(S) Dibromofluoromethane	*87.4*			*75.0-120*		*01/04/2019 13:13*	WG1219077
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*01/04/2019 13:13*	WG1219077

JC 3/11/19

MEMORANDUM

TO: Project File **DATE:** March 15, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.601

TASK: EIM Data Validation Level EPA2A for January and February 2019 Stormwater and Groundwater Samples

LAB: Fremont Analytical Service Request Nos. 1901351 and 1902057

Five (5) groundwater samples (including a field duplicate), one (1) stormwater sample, and one equipment blank sample were collected at the Lake Stevens Marketplace Site in Snohomish County on January 25 and February 5, 2019. The samples were collected as part of a Round 3 Interim Action Compliance Monitoring sampling event at the Former American Linen Supply Site, in Seattle, Washington. The samples were delivered to Fremont Analytical (Fremont) of Seattle, Washington for laboratory analysis. One request for analysis on sample QA-020519 was cancelled by PES on February 5, 2019. Samples were analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C.

The sampling event extended from December 21, 2018 to February 7, 2019 and results are reported in two (2) Work Orders from Fremont and eighteen (18) Pace Lab Services (Pace) of Mount Juliet, TN. Data validation reports for Pace Sample Delivery Groups (SDGs) are organized by matrix (soil and groundwater) for seven soil SDGs and eleven groundwater SDGs. The two Fremont Work Orders are reviewed in one data validation report and analytical results are reported in Fremont Work Orders 1901351 and 1902057. The quality assurance review of the laboratory data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Sample Receipt, Preservation and Handling

The samples were delivered to the project laboratory in coolers under standard chain-of-custody protocols. Review of Fremont's Sample Log-In Check List Form indicates that all samples were received in good condition below or slightly above the recommended preservation temperature 6.0°C. No action is taken for sample SW-TANK-012519 (Work Order 1901351) which was received above the recommended temperature. The sample was collected and delivered to the laboratory on the same day and did not have not enough time to cool. The sample receipt log indicated that the samples in the coolers were received properly stored in a cooler, preserved, and cooled with ice/gel packs and in good condition at the time of laboratory receipt. No data qualifications were assigned due to temperature preservation issues.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. These data were not provided nor requested for this project however Fremont indicated within the laboratory report that continuing calibration criteria did not meet acceptance criteria for the following:

- Work Order 1902057: For EPA Method 8260C (Analytical Batch 23465) CCV criteria are not met for two compounds (dichlorodifluoromethane (CFC-12) and chloromethane) and are laboratory qualified (Q). **All associated groundwater sample results for dichlorodifluoromethane (CFC-12) and chloromethane are estimated (UJ/J) because CCV acceptance criteria are not met.**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks are included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the method reporting limits (RLs). No qualifications of the data were made due to the results of the method blank analyses.

Trip Blank Results

Trip blank samples were not collected.

Field, Rinsate, or Equipment Blank Results

USEPA Method 8260C:

Equipment blank sample (EQ-020519) was analyzed for VOCs. The target analytes were not detected in the equipment blank at or above the RLs.

Commented [JC1]: Not sure which sample(s) the EQ are related to but no action required. All ND.

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pairs are as follows:

- Work Order 1902276: Samples MW-163-020519 and MW-907-020519

Target analyte results (VOCs) are comparable and within a relative percent difference (RPD) of 30% for the field duplicate pair.

Laboratory Duplicate Analyses

USEPA Method 8260C:
Laboratory duplicate samples were performed on client and non-client samples associated with the analytical batches. The RPDs for VOCs are within the laboratory control limit of 30% RPD.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory duplicates, laboratory control samples, matrix spike samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Matrix Spike/ Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses was performed on client sample MW-163-020519. The MS/MSD percent recoveries (%R's) and RPDs for the all target compounds are within the laboratory control criteria for water with the following discussion.

- Work Order 1901351: Matrix spike analysis was not performed. Refer to laboratory control sample results for precision and accuracy data.

Laboratory Control Samples

USEPA Method 8260C:
Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed by USEPA Method 8260C. The LCS or LCS/LCSD %R's and RPDs for the target compounds are within the laboratory control criteria for water.

Quantitation Limits

Results of all analyses were reported based on standard laboratory RLs. The reported RLs are considered appropriate for this project. RLs may be raised for method-required dilutions. No data qualifiers were warranted based upon standard detection limits.

Completeness

The samples were collected and analyzed as requested. Data completeness is 100%.

Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017)

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

Fremont Analytical

Analytical Report

Work Order: **1902057**
Date Reported: **2/7/2019**

Client: PES Environmental, Inc.
Collection Date: 2/5/2019 11:59:00 AM
Project: American Linen
Lab ID: 1902057-001
Matrix: Groundwater
Client Sample ID: MW-162-020519

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23465 Analyst: KT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dichlorodifluoromethane (CFC-12)	ND UJ	1.00	Q	µg/L	1	2/6/2019 10:02:14 AM
Chloromethane	ND UJ	2.00	Q	µg/L	1	2/6/2019 10:02:14 AM
Vinyl chloride	128	20.0	D	µg/L	100	2/6/2019 3:41:41 PM
Bromomethane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Chloroethane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,1-Dichloroethene	4.23	1.00		µg/L	1	2/6/2019 10:02:14 AM
Methylene chloride	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
trans-1,2-Dichloroethene	9.58	1.00		µg/L	1	2/6/2019 10:02:14 AM
Methyl tert-butyl ether (MTBE)	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
2,2-Dichloropropane	ND	2.00		µg/L	1	2/6/2019 10:02:14 AM
cis-1,2-Dichloroethene	1,070	100	D	µg/L	100	2/6/2019 3:41:41 PM
Chloroform	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,1-Dichloropropene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Carbon tetrachloride	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,2-Dichloroethane (EDC)	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Benzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Trichloroethene (TCE)	613	50.0	D	µg/L	100	2/6/2019 3:41:41 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Bromodichloromethane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Dibromomethane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Toluene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
trans-1,3-Dichloropropylene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,3-Dichloropropane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Tetrachloroethene (PCE)	2,800	100	D	µg/L	100	2/6/2019 3:41:41 PM
Dibromochloromethane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,2-Dibromoethane (EDB)	ND	0.250		µg/L	1	2/6/2019 10:02:14 AM
Chlorobenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Ethylbenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
m,p-Xylene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
o-Xylene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Styrene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Isopropylbenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Bromoform	ND	2.00		µg/L	1	2/6/2019 10:02:14 AM

JC 3/15/19

Client: PES Environmental, Inc.
Collection Date: 2/5/2019 11:59:00 AM
Project: American Linen
Lab ID: 1902057-001
Matrix: Groundwater
Client Sample ID: MW-162-020519

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23465 Analyst: KT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
n-Propylbenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Bromobenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
2-Chlorotoluene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
4-Chlorotoluene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
tert-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	2/6/2019 10:02:14 AM
sec-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
4-Isopropyltoluene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
n-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
Hexachloro-1,3-butadiene	ND	4.00		µg/L	1	2/6/2019 10:02:14 AM
Naphthalene	ND	1.00		µg/L	1	2/6/2019 10:02:14 AM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	2/6/2019 10:02:14 AM
Surr: Dibromofluoromethane	94.3	45.4 - 152		%Rec	1	2/6/2019 10:02:14 AM
Surr: Toluene-d8	103	40.1 - 139		%Rec	1	2/6/2019 10:02:14 AM
Surr: 1-Bromo-4-fluorobenzene	98.8	64.2 - 128		%Rec	1	2/6/2019 10:02:14 AM

NOTES:

Q - Indicates an analyte with an initial calibration verification that does not meet established acceptance criteria (Dichlorodifluoromethane, Chloromethane)

JC 3/15/19

Fremont *Analytical*

Analytical Report

Work Order: **1902057**
Date Reported: **2/7/2019**

Client: PES Environmental, Inc.
Project: American Linen
Lab ID: 1902057-002
Client Sample ID: MW-163-020519

Collection Date: 2/5/2019 2:30:00 PM
Matrix: Groundwater

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23465 Analyst: KT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dichlorodifluoromethane (CFC-12)	ND UJ	1.00	Q	µg/L	1	2/6/2019 10:32:28 AM
Chloromethane	ND UJ	2.00	Q	µg/L	1	2/6/2019 10:32:28 AM
Vinyl chloride	2.95	2.00	D	µg/L	10	2/6/2019 4:11:57 PM
Bromomethane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Chloroethane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,1-Dichloroethene	9.12	1.00		µg/L	1	2/6/2019 10:32:28 AM
Methylene chloride	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Methyl tert-butyl ether (MTBE)	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
2,2-Dichloropropane	ND	2.00		µg/L	1	2/6/2019 10:32:28 AM
cis-1,2-Dichloroethene	42.2	10.0	D	µg/L	10	2/6/2019 4:11:57 PM
Chloroform	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,1-Dichloropropene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Carbon tetrachloride	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,2-Dichloroethane (EDC)	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Benzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Trichloroethene (TCE)	150	5.00	D	µg/L	10	2/6/2019 4:11:57 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Bromodichloromethane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Dibromomethane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Toluene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
trans-1,3-Dichloropropylene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,3-Dichloropropane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Tetrachloroethene (PCE)	218	10.0	D	µg/L	10	2/6/2019 4:11:57 PM
Dibromochloromethane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,2-Dibromoethane (EDB)	ND	0.250		µg/L	1	2/6/2019 10:32:28 AM
Chlorobenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Ethylbenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
m,p-Xylene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
o-Xylene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Styrene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Isopropylbenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Bromoform	ND	2.00		µg/L	1	2/6/2019 10:32:28 AM

JC 3/15/19

Client: PES Environmental, Inc. **Collection Date:** 2/5/2019 2:30:00 PM
Project: American Linen
Lab ID: 1902057-002 **Matrix:** Groundwater
Client Sample ID: MW-163-020519

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23465 Analyst: KT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
n-Propylbenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Bromobenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
2-Chlorotoluene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
4-Chlorotoluene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
tert-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	2/6/2019 10:32:28 AM
sec-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
4-Isopropyltoluene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
n-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
Hexachloro-1,3-butadiene	ND	4.00		µg/L	1	2/6/2019 10:32:28 AM
Naphthalene	ND	1.00		µg/L	1	2/6/2019 10:32:28 AM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	2/6/2019 10:32:28 AM
Surr: Dibromofluoromethane	98.5	45.4 - 152		%Rec	1	2/6/2019 10:32:28 AM
Surr: Toluene-d8	105	40.1 - 139		%Rec	1	2/6/2019 10:32:28 AM
Surr: 1-Bromo-4-fluorobenzene	98.0	64.2 - 128		%Rec	1	2/6/2019 10:32:28 AM

NOTES:

Q - Indicates an analyte with an initial calibration verification that does not meet established acceptance criteria (Dichlorodifluoromethane, Chloromethane)

JC 3/15/19

Analytical Report

Work Order: **1902057**
Date Reported: **2/7/2019**

Client: PES Environmental, Inc.
Project: American Linen
Lab ID: 1902057-003
Client Sample ID: **MW-907-020519**

Collection Date: 2/5/2019 2:30:00 PM

Matrix: Groundwater

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23465 Analyst: KT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dichlorodifluoromethane (CFC-12)	ND UJ	1.00	Q	µg/L	1	2/6/2019 11:02:43 AM
Chloromethane	ND UJ	2.00	Q	µg/L	1	2/6/2019 11:02:43 AM
Vinyl chloride	3.45	0.200		µg/L	1	2/6/2019 11:02:43 AM
Bromomethane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Chloroethane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,1-Dichloroethene	9.31	1.00		µg/L	1	2/6/2019 11:02:43 AM
Methylene chloride	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Methyl tert-butyl ether (MTBE)	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
2,2-Dichloropropane	ND	2.00		µg/L	1	2/6/2019 11:02:43 AM
cis-1,2-Dichloroethene	40.3	10.0	D	µg/L	10	2/6/2019 4:42:14 PM
Chloroform	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,1-Dichloropropene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Carbon tetrachloride	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,2-Dichloroethane (EDC)	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Benzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Trichloroethene (TCE)	153	5.00	D	µg/L	10	2/6/2019 4:42:14 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Bromodichloromethane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Dibromomethane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Toluene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
trans-1,3-Dichloropropylene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,3-Dichloropropane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Tetrachloroethene (PCE)	220	10.0	D	µg/L	10	2/6/2019 4:42:14 PM
Dibromochloromethane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,2-Dibromoethane (EDB)	ND	0.250		µg/L	1	2/6/2019 11:02:43 AM
Chlorobenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Ethylbenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
m,p-Xylene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
o-Xylene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Styrene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Isopropylbenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Bromoform	ND	2.00		µg/L	1	2/6/2019 11:02:43 AM

JC 3/15/19

Analytical Report

Work Order: **1902057**
Date Reported: **2/7/2019**

Client: PES Environmental, Inc.
Collection Date: 2/5/2019 2:30:00 PM
Project: American Linen
Lab ID: 1902057-003
Matrix: Groundwater
Client Sample ID: MW-907-020519

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23465 Analyst: KT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
n-Propylbenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Bromobenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
2-Chlorotoluene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
4-Chlorotoluene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
tert-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	2/6/2019 11:02:43 AM
sec-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
4-Isopropyltoluene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
n-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
Hexachloro-1,3-butadiene	ND	4.00		µg/L	1	2/6/2019 11:02:43 AM
Naphthalene	ND	1.00		µg/L	1	2/6/2019 11:02:43 AM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	2/6/2019 11:02:43 AM
Surr: Dibromofluoromethane	97.9	45.4 - 152		%Rec	1	2/6/2019 11:02:43 AM
Surr: Toluene-d8	104	40.1 - 139		%Rec	1	2/6/2019 11:02:43 AM
Surr: 1-Bromo-4-fluorobenzene	102	64.2 - 128		%Rec	1	2/6/2019 11:02:43 AM

NOTES:

Q - Indicates an analyte with an initial calibration verification that does not meet established acceptance criteria (Dichlorodifluoromethane, Chloromethane)

JC 3/15/19

Client: PES Environmental, Inc. **Collection Date:** 2/5/2019 4:15:00 PM
Project: American Linen
Lab ID: 1902057-004 **Matrix:** Groundwater
Client Sample ID: MW-164-020519

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23465 Analyst: KT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dichlorodifluoromethane (CFC-12)	ND UJ	1.00	Q	µg/L	1	2/6/2019 12:03:21 PM
Chloromethane	ND UJ	2.00	Q	µg/L	1	2/6/2019 12:03:21 PM
Vinyl chloride	4.41	0.200		µg/L	1	2/6/2019 12:03:21 PM
Bromomethane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Chloroethane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,1-Dichloroethene	8.74	1.00		µg/L	1	2/6/2019 12:03:21 PM
Methylene chloride	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
trans-1,2-Dichloroethene	3.41	1.00		µg/L	1	2/6/2019 12:03:21 PM
Methyl tert-butyl ether (MTBE)	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
2,2-Dichloropropane	ND	2.00		µg/L	1	2/6/2019 12:03:21 PM
cis-1,2-Dichloroethene	385	50.0	D	µg/L	50	2/6/2019 5:12:34 PM
Chloroform	3.83	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Carbon tetrachloride	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,2-Dichloroethane (EDC)	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Benzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Trichloroethene (TCE)	372	25.0	D	µg/L	50	2/6/2019 5:12:34 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Bromodichloromethane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Dibromomethane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Toluene	1.80	1.00		µg/L	1	2/6/2019 12:03:21 PM
trans-1,3-Dichloropropylene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Tetrachloroethene (PCE)	871	50.0	D	µg/L	50	2/6/2019 5:12:34 PM
Dibromochloromethane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,2-Dibromoethane (EDB)	ND	0.250		µg/L	1	2/6/2019 12:03:21 PM
Chlorobenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Ethylbenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
m,p-Xylene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
o-Xylene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Styrene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Isopropylbenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Bromoform	ND	2.00		µg/L	1	2/6/2019 12:03:21 PM

JC 3/15/19

Client: PES Environmental, Inc.
Collection Date: 2/5/2019 4:15:00 PM
Project: American Linen
Lab ID: 1902057-004
Matrix: Groundwater
Client Sample ID: MW-164-020519

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23465 Analyst: KT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
n-Propylbenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Bromobenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
2-Chlorotoluene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
4-Chlorotoluene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
tert-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	2/6/2019 12:03:21 PM
sec-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
n-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
Hexachloro-1,3-butadiene	ND	4.00		µg/L	1	2/6/2019 12:03:21 PM
Naphthalene	ND	1.00		µg/L	1	2/6/2019 12:03:21 PM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	2/6/2019 12:03:21 PM
Surr: Dibromofluoromethane	96.8	45.4 - 152		%Rec	1	2/6/2019 12:03:21 PM
Surr: Toluene-d8	103	40.1 - 139		%Rec	1	2/6/2019 12:03:21 PM
Surr: 1-Bromo-4-fluorobenzene	97.3	64.2 - 128		%Rec	1	2/6/2019 12:03:21 PM

NOTES:

Q - Indicates an analyte with an initial calibration verification that does not meet established acceptance criteria (Dichlorodifluoromethane, Chloromethane)

JC 3/15/19

Client: PES Environmental, Inc.
Project: American Linen
Lab ID: 1902057-005
Client Sample ID: EQ-020519

Collection Date: 2/5/2019 4:40:00 PM

Matrix: Groundwater

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23465 Analyst: KT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dichlorodifluoromethane (CFC-12)	ND UJ	1.00	Q	µg/L	1	2/6/2019 11:33:04 AM
Chloromethane	ND UJ	2.00	Q	µg/L	1	2/6/2019 11:33:04 AM
Vinyl chloride	ND	0.200		µg/L	1	2/6/2019 11:33:04 AM
Bromomethane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Chloroethane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Methylene chloride	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Methyl tert-butyl ether (MTBE)	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
2,2-Dichloropropane	ND	2.00		µg/L	1	2/6/2019 11:33:04 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Chloroform	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,1-Dichloropropene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Carbon tetrachloride	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,2-Dichloroethane (EDC)	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Benzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	2/6/2019 3:11:31 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Bromodichloromethane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Dibromomethane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Toluene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
trans-1,3-Dichloropropylene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,3-Dichloropropane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	2/6/2019 3:11:31 PM
Dibromochloromethane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,2-Dibromoethane (EDB)	ND	0.250		µg/L	1	2/6/2019 11:33:04 AM
Chlorobenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Ethylbenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
m,p-Xylene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
o-Xylene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Styrene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Isopropylbenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Bromoform	ND	2.00		µg/L	1	2/6/2019 11:33:04 AM

JC 3/15/19

Analytical Report

Work Order: **1902057**
Date Reported: **2/7/2019**

Client: PES Environmental, Inc.
Project: American Linen
Lab ID: 1902057-005
Client Sample ID: EQ-020519

Collection Date: 2/5/2019 4:40:00 PM
Matrix: Groundwater

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23465 Analyst: KT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
n-Propylbenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Bromobenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
2-Chlorotoluene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
4-Chlorotoluene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
tert-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	2/6/2019 11:33:04 AM
sec-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
4-Isopropyltoluene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
n-Butylbenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
Hexachloro-1,3-butadiene	ND	4.00		µg/L	1	2/6/2019 11:33:04 AM
Naphthalene	ND	1.00		µg/L	1	2/6/2019 11:33:04 AM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	2/6/2019 11:33:04 AM
Surr: Dibromofluoromethane	98.9	45.4 - 152		%Rec	1	2/6/2019 11:33:04 AM
Surr: Toluene-d8	103	40.1 - 139		%Rec	1	2/6/2019 11:33:04 AM
Surr: 1-Bromo-4-fluorobenzene	101	64.2 - 128		%Rec	1	2/6/2019 11:33:04 AM

NOTES:

Q - Indicates an analyte with an initial calibration verification that does not meet established acceptance criteria (Dichlorodifluoromethane, Chloromethane)

JC 3/15/19

MEMORANDUM

TO: Project File **DATE:** March 21, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.601

TASK: EIM Data Validation Level EPA2A for January and February 2019 – Soil Samples

LAB: Pace Sample Delivery Groups L1061673, L1062820, L1062825, L1063347, L1064712, L1065738, and L1068436

Seventy-four (74) soil samples including three (3) field duplicates, and six (6) trip blanks were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on January 15-17, 21, 24-25, 28-29, and February 7, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology; and
- Total Solids by Standard Methods 2540 G-2011.

Associated soil sample data are reported in seven Pace SDGs (L1061673, L1062820, L1062825, L1063347, L1064712, L1065738, and L1068436). The quality assurance review of the sample data are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for soils from the date of collection. All holding time criteria were met.

NWTPH-Gx:
All samples were analyzed for gasoline within the EPA recommended holding time of fourteen days for soils from the date of collection. All holding time criteria were met.

Total Solids by SM 2540 G 2011:
Samples were analyzed within the USEPA recommended holding time of seven days for total solids.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however Pace's notes indicate the following:

- SDG L1061673 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches WG1225917 and WG1226470 (analyzed on January 20-21, 2019). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample B11D11-10 results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1061673 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batch WG1226032 (analyzed on January 20, 2019). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1061673 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches WG1224822 and WG1225374 (analyzed on January 17-18, 2019). The compounds are qualified by the laboratory “J0” to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample B11D11-27, S1-8843-011519, and S2-8843-011519 results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDGs L1062820 and L1062825 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for hexachloro-1,3-butadiene and 1,2,3-trimethylbenzene associated with analytical batches WG1226460 (analyzed on January 22, 2019). The compounds are qualified by the laboratory “J0” to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1063347 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batch WG1228076 (analyzed on January 24, 2019). The compounds are qualified by the laboratory “J0” to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1064712 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for acetone associated with analytical batches WG1229916 and WG1230028 (analyzed on January 30, 2019). The compound is qualified by the laboratory “J0” to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) result are estimated and qualified (J/UJ).**

- SDG L1065738 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for carbon disulfide associated with analytical batches WG1231708 (analyzed on February 2, 2019). The compound is qualified by the laboratory “J0” to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) result are estimated and qualified (J/UJ).**

- SDG L1065738 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches WG1231554 (analyzed on February 1, 2019). The compounds are qualified by the laboratory “J0” to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated trip blank results with laboratory qualified (J0) result are estimated and qualified (J/UJ).**

- SDG L1065738 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for hexachloro-1,3-butadiene, naphthalene, and 1,2,4-trichlorobenzene associated with analytical batch WG1231732 (analyzed on February 2, 2019). The compounds are qualified by the laboratory “J0” to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) result are estimated and qualified (J/UJ).**

- SDG L1068436 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for acetone associated with analytical batch WG1237248 (analyzed on February 14, 2019). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) result are estimated and qualified (J/UJ).**

- SDG L1068436 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for vinyl acetate associated with analytical batch WG1234855 (analyzed on February 9, 2019). The compound is qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Trip blank results with laboratory qualified (J0) result are estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1061673 - Analytical batch WG1224822: Low levels of acetone and methylene chloride are detected in the method blank. No action is required since acetone and methylene chloride are not detected in the associated samples (B11D11-27, S1-8843-011519, and S2-8843-011519).

- SDG L1061673 - Analytical batch WG1225917: A low level of methylene chloride is detected in the method blank. No action is required since methylene chloride is not detected in the associated sample (B11D11-10).

- SDG L1061673 - Analytical batch WG1226032: A low level of 1,2,3-trichlorobenzene is detected in the method blank. No action is required since 1,2,3-trichlorobenzene is not detected in the associated samples.

- SDGs L1062820 - Analytical batch WG1226185: A low level of naphthalene is detected in the method blank. Naphthalene is detected at a low level in the Trip Blank but not in the associated soil samples.

- SDGs L1062820 and L1062825 - Analytical batch WG1226460: Low levels of n-hexane and methylene chloride are detected in the method blank. Actions are as follows;

    - **SDG L1062825:** Methylene chloride is detected at a low level in sample B1D1-20 in the associated samples. **Methylene chloride detection in sample B1D1-20 is qualified as not detected (U) due to blank contamination.**

  - **SDG L1062820: N-hexane is detected below the RDL in sample B4D4-3 and is qualified as not detected (U) due to blank contamination.**

  - **SDG L1062825: N-hexane was detected below the RDL in samples B1D1-15, B1D1-20, B1D1-25, B1D1-35, B1D1-40, and B1D1-50 and these detections are qualified as not detected (U) due to blank contamination.**

- SDG L1063347 - Analytical batch WG1228076: Low levels of acetone, trans-1,3-dichloropropene, n-hexane, and methylene chloride are detected in the method blank. Actions are as follows;

  - Acetone is detected at low level in samples A9C9-3 and A9C9-6. **Acetone detections in these samples are qualified as not detected (U) due to blank contamination.**

  - **N-hexane was detected below the RDL in sample A9C9-10 and is qualified as not detected (U) due to blank contamination.**

- SDG L1063347 - Analytical batch WG1227840: A low level of naphthalene is detected in the method blank. Naphthalene is detected at a low level in the Trip Blank but not in the associated soil samples. No action is required.

- SDG L1064712 - Analytical batch WG1229639: A low level of methylene chloride is detected in the method blank. No action is required since methylene chloride is not detected in the associated samples.

- SDG L1064712 - Analytical batches WG1229916 and WG1230028: A low level of acetone is detected in the method blanks. Acetone was detected at a low level in samples MW-164-80 and MW-164-90. **Acetone detections in the associated samples are qualified as not detected (U) due to method blank contamination.**

- SDG L1065738 – Analytical batch WG1231554: Low levels of chloroform and hexachloro-1,3-butadiene are detected in the method blank. Chloroform and hexachloro-1,3-butadiene are not detected in the associated Trip Blank and no action is required.

- SDG L1065738 – Analytical batch WG1231708: A low level of methylene chloride is detected in the method blank. **Methylene chloride was detected at a low level in sample MW-162-95 and is qualified as not detected (U) due to method blank contamination.**

- SDG L1065738 – Analytical batch WG1231932: Low levels of cis-1,2-dichloroethene and methylene chloride are detected (below the respective RDLs) in the method blank. Methylene chloride was not detected and cis-1,2-dichloroethene is detected above the RDL in sample MW-162-48.   No action is required.

- SDG L1068436 - Analytical batch WG1234855: A low level of hexachloro-1,3-butadiene is detected in the method blank. Hexachloro-1,3-butadiene was not detected in the trip blank. No action was required.

- SDG L1068436 - Analytical batch WG1235014: Low levels of n-hexane and methylene chloride are detected in the method blank. Methylene chloride was not detected in the associated samples however n-hexane was detected at low levels in sample A9C9-20, A9C9-32, A9C9-35, and B-931-50. **Sample A9C9-20, A9C9-32, A9C9-35, and B-931-50 n-hexane results are qualified as not detected (U) due to method blank contamination.**

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exceptions:

Total Solids by SM 2540 G 2011:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

Trip Blank Results

USEPA Method 8260C and NWTPH-Gx:
Three trip blanks were collected and analyzed for VOCs and in some cases for gasoline by NWTPH-Gx. The target analytes were not detected in the trip blank at or above the RDLs with the following exceptions:

  - SDG L1061673 - Analytical batch WG1225168: Low levels of acetone, acrylonitrile, carbon disulfide, and 1,2,3-trichlorobenzene are detected in the trip blank. Acrylonitrile, carbon disulfide, and 1,2,3-trichlorobenzene are not detected in the associated samples. **Acetone detections in samples B11D11-15, B11D11-30, B11D11-40, B11D11-46, and B-928-46 are qualified as not detected and qualified (U) due to trip blank contamination.**

  - SDG L1063347 – Analytical batch WG1227840: A low level of naphthalene was detected in the trip blank and associated method blank. No action is taken since the trip blank is a QC sample.

  - SDG L1068436 - Analytical batch WG1234855: A low level of acetone is detected in the trip blank and not in the associated method blank. **Acetone was detected at a low level in sample A9C9-50 and is qualified as not detected (U).**

Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate sample pairs are as follows:

- SDG L1061673: Samples B11D11-46 and B-928-46
- SDG L1064712: Samples MW-164-110 and B-929-120
- SDG L1068436: Samples A9C9-50 and B-931-50

Field duplicate pairs were submitted and analyzed for VOCs. VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% or absolute difference <2X RDL (for results <5X the RDL) for the field duplicates.

Laboratory Duplicate Analyses

USEPA Method 8260C:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

NWTPH-Gx Method:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

Total Solids by SM 2540 G 2011:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, and the method blanks are within the laboratory surrogate control limits for all of the analyses with the following exceptions:

- SDG L1061673 - Analytical batch WG1225917: Surrogate 4-bromofluorobenzene (date of analysis is January 20, 2019) recovery is low on a non-client matrix spike sample. Following Guidelines, non-project-specific matrix spike results were not evaluated as part of this data validation.

- SDG L1062820 - Analytical batches WG1226460 and WG1228513: Surrogate toluene-d8 (dates of analyses are January 22 and 26, 2019) recoveries are low on sample B4D4-10 and below laboratory acceptance criteria (recoveries are greater than 10%). **Per Guidelines, sample B4D4-10 detects are qualified as estimated low (J-) and non-detects are qualified as estimated (UJ).**

- SDG L1065738 – Analytical batch WG1232204: Surrogate dibromofluoromethane (date of analysis February 4, 2019) recovery is above control limit criteria on sample MW-162-48. No action is taken since detections for associated compounds (acetone, 1,2-dichloropropane, and 2-butanone (MEK)) are not detected in this sample.

- SDG L1065738 – Analytical batch WG1231857: Surrogate dibromofluoromethane (date of analyses both February 3, 2019) recoveries are above control limit criteria on samples MW-162-50, MW-162-70, MW-162-72, MW-163-47, MW-163-50, MW-163-55, and MW-163-60. **Per Guidelines, positive sample detections for six compounds (acetone, cis-1,2-dichloroethene, 1,2-dichloropropane, 2-butanone (MEK), tetrachloroethene, and trichloroethene) associated with this analytical batch (WG1231857) are qualified as estimated (J).**

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blank, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260C:

LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils with the following discussions and exceptions:

- SDG L1061673 - Analytical batch WG1224822: LCS/LCSD recoveries for 1,2,3-trimethylbenzene are slightly below control limit criteria and laboratory qualified (J4). **Associated sample results for 1,2,3-trimethylbenzene are estimated and qualified (UJ) due to low LCS/LCSD recoveries.**

- SDG L1061673 - Analytical batch WG1226032: LCS recovery for 1,2,3-trichlorobenzene is below control limit criteria and laboratory qualified (J4). **Associated sample results for 1,2,3-trichlorobenzene are estimated and qualified (UJ) due to low LCS recovery.**

- SDG L1062820 - Analytical batch WG1226185: LCS/LCSD recoveries for 1,2,3-trimethylbenzene are slightly below control limit criteria and laboratory qualified (J4). **Associated Trip Blank result for 1,2,3-trimethylbenzene is estimated and qualified (UJ) due to low LCS/LCSD recoveries.**

- SDGs L1062820 and L1062825 - Analytical batch WG1226460: LCS recovery for 1,2,3-trimethylbenzene is slightly below control limit criteria and laboratory qualified (J4). **Associated sample results for 1,2,3-trimethylbenzene are estimated and qualified (UJ) due to low LCS recovery.**

- SDGs L1062820 and L1062825 - Analytical batch WG1226460: LCS recovery for vinyl acetate is above control limit criteria and laboratory qualified (J4). **The vinyl acetate**

assigned laboratory qualifier (J4) is removed since this compound is not detected in the associated samples.

- SDG L1063347 – Analytical batch WG1228076 LCS/LCSD recoveries for naphthalene, 1,2,3-trichlorobenzene, and 1,2,3-trimethylbenzene are below control limit criteria and laboratory qualified (J4). **Associated sample results for these compounds are estimated and qualified (J/UJ) due to low LCS/LCSD recoveries.**

- SDG L1063347 – Analytical batch WG1228076 LCS/LCSD recoveries for vinyl acetate is above control limit criteria and laboratory qualified (J4). No action is taken since this compound is not detected in the associated samples. **The vinyl acetate assigned laboratory qualifier (J4) is removed since this compound is not detected in the associated samples.**

- SDG L1065738 – Analytical batch WG1232204 LCS recovery for 1,2-dichloropropane is above control limit criteria and laboratory qualified (J4). **The 1,2-dichloropropane assigned laboratory qualifier (J4) is removed since this compound is not detected in the associated sample (MW-162-48).**

- SDG L1065738 – Analytical batch WG1231554 LCS/LCSD recoveries for 1,2,3-trimethylbenzene are above control limit criteria and laboratory qualified (J4). No action is taken since this is associated with the trip blank.

- SDG L1065738 – Analytical batch WG1231708: LCS recovery for tetrachloroethene is above control limit criteria and laboratory qualified (J4). **Tetrachloroethene was detected above the RDL in samples MW-162-95, MW-162-100, MW-162-105, MW-162-110, MW-163-55, and MW-163-90 and these results are qualified as estimated (J) due to the elevated LCS recovery in analytical batch WG1231708.**

- SDG L1065738 – Analytical batches WG1231857 and WG1231920: LCS recovery for trichloroethene is slightly below control limit criteria (76.0-126%) at 75.7% and laboratory qualified (J4). In this case the LCS recovery result is rounded to 76% and considered within range. **The trichloroethene laboratory assigned laboratory qualifier (J4) was removed from the associated samples (B-930-50, MW-163-60, MW-163-80, MW-163-85, MW-163-95, MW-163-100, MW-163-105, and MW-163-110) since the LCS recovery is considered acceptable.**

NWTPH-Gx Method:

The LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for soils.

Total Solids by SM 2540 G 2011:
The LCS %Rs for total solids are within the laboratory control criteria for soils.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on non-client samples. In cases where MS/MSDs were not performed refer to LCS/LCSDs for accuracy and precision data. Following Guidelines, non-project-specific matrix spike results were not evaluated as part of this data validation. MS/MSD % Rs and RPDs are acceptable with the following discussions:

- SDG L1061673 - Analytical batch WG1225917 and WG1226032: Spike analyses were performed on a non-client sample within the analytical batches. Multiple compounds were recovered outside of control limits due to elevated target concentrations and matrix interferences. Refer to LCS results.

- SDG L1068436 - Analytical batch WG1235014: Spike analyses were performed on a non-client sample within the analytical batches. Several compounds were recovered wide with high RPDs and above laboratory control limits. Refer to LCS results.

NWTPH-Gx Method:
MS/MSD analyses were performed on non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for soils.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

PES requested additional supporting data from Pace on select sample results due to gasoline range organic results which coincide with elevated chlorinated VOC results greater than the RDL in fifteen samples. Per Pace, certain chlorinated VOC compounds (including cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, and trichloroethene) elute within the gasoline retention time range, are considered gasoline range organics due to the elution time, and therefore likely contribute to the gasoline range organic result. Chromatograms were reviewed by Pace and PES to compare gasoline patterns with sample results. Based on this review no discernible gasoline patterns were reported. **All gasoline range organic results above the RDL are qualified as estimated with possible high bias (J+).** Qualified samples are as follows:

Client Sample Identification	Laboratory Identification	Result Parameter Name	Result Value mg/Kg - dry	RDL mg/Kg dry	Qualified Result	Sample Chromatogram Match Gasoline Standard

B2D2-6	L1062820-02	Gasoline Range Organics	4.28	3.48	J+	No discernable gasoline pattern
A3C3-8	L1062820-05	Gasoline Range Organics	12.9	5.00	J+	No discernable gasoline pattern
B2D2-10	L1063347-04	Gasoline Range Organics	24.9	5.42	J+	No discernable gasoline pattern

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. Though no action is taken other than to note that Pace sample narrative notes indicate that several VOC target compounds were too high to run at lower dilution for nine (including a field duplicate) samples as follows:

Client Sample Identification	SDG Number	Laboratory Identification
MW-162-50	L1065738	L1065738-02
B-930-50	L1065738	L1065738-03
MW-162-67	L1065738	L1065738-04
MW-162-70	L1065738	L1065738-05
MW-162-72	L1065738	L1065738-06
MW-163-47	L1065738	L1065738-14
MW-163-50	L1065738	L1065738-15
MW-163-55	L1065738	L1065738-16
MW-163-60	L1065738	L1065738-17

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.4		1	01/18/2019 10:13	WG1225025

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0961		0.0184	0.0337	1.07	01/20/2019 07:17	WG1225917
Acrylonitrile	U		0.00256	0.0169	1.07	01/20/2019 07:17	WG1225917
Benzene	U		0.000539	0.00135	1.07	01/20/2019 07:17	WG1225917
Bromobenzene	U		0.00141	0.0169	1.07	01/20/2019 07:17	WG1225917
Bromodichloromethane	U		0.00106	0.00337	1.07	01/20/2019 07:17	WG1225917
Bromochloromethane	U		0.00152	0.00674	1.07	01/20/2019 07:17	WG1225917
Bromoform	U	UJ J0	0.00806	0.0337	1.07	01/20/2019 07:17	WG1225917
Bromomethane	U		0.00499	0.0169	1.07	01/20/2019 07:17	WG1225917
n-Butylbenzene	U		0.00518	0.0169	1.07	01/20/2019 07:17	WG1225917
sec-Butylbenzene	U		0.00341	0.0169	1.07	01/20/2019 07:17	WG1225917
tert-Butylbenzene	U		0.00209	0.00674	1.07	01/20/2019 07:17	WG1225917
Carbon disulfide	U		0.00547	0.0169	1.07	01/20/2019 07:17	WG1225917
Carbon tetrachloride	U		0.00146	0.00674	1.07	01/20/2019 07:17	WG1225917
Chlorobenzene	U		0.000772	0.00337	1.07	01/20/2019 07:17	WG1225917
Chlorodibromomethane	U		0.000607	0.00337	1.07	01/20/2019 07:17	WG1225917
Chloroethane	U		0.00146	0.00674	1.07	01/20/2019 07:17	WG1225917
Chloroform	U		0.000559	0.00337	1.07	01/20/2019 07:17	WG1225917
Chloromethane	U		0.00188	0.0169	1.07	01/20/2019 07:17	WG1225917
2-Chlorotoluene	U		0.00124	0.00337	1.07	01/20/2019 07:17	WG1225917
4-Chlorotoluene	U		0.00152	0.00674	1.07	01/20/2019 07:17	WG1225917
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00688	0.0337	1.07	01/20/2019 07:17	WG1225917
1,2-Dibromoethane	U		0.000708	0.00337	1.07	01/20/2019 07:17	WG1225917
Dibromomethane	U		0.00135	0.00674	1.07	01/20/2019 07:17	WG1225917
1,2-Dichlorobenzene	U		0.00195	0.00674	1.07	01/20/2019 07:17	WG1225917
1,3-Dichlorobenzene	U		0.00229	0.00674	1.07	01/20/2019 07:17	WG1225917
1,4-Dichlorobenzene	U		0.00266	0.00674	1.07	01/20/2019 07:17	WG1225917
Dichlorodifluoromethane	U	UJ J0	0.00109	0.00334	1.06	01/21/2019 21:41	WG1226470
1,1-Dichloroethane	U		0.000775	0.00337	1.07	01/20/2019 07:17	WG1225917
1,2-Dichloroethane	U		0.000640	0.00337	1.07	01/20/2019 07:17	WG1225917
1,1-Dichloroethene	U		0.000668	0.00334	1.06	01/21/2019 21:41	WG1226470
cis-1,2-Dichloroethene	U		0.000921	0.00334	1.06	01/21/2019 21:41	WG1226470
trans-1,2-Dichloroethene	U		0.00193	0.00674	1.07	01/20/2019 07:17	WG1225917
1,2-Dichloropropane	U		0.00171	0.00674	1.07	01/20/2019 07:17	WG1225917
1,1-Dichloropropene	U		0.000944	0.00337	1.07	01/20/2019 07:17	WG1225917
1,3-Dichloropropane	U		0.00236	0.00674	1.07	01/20/2019 07:17	WG1225917
cis-1,3-Dichloropropene	U		0.000913	0.00337	1.07	01/20/2019 07:17	WG1225917
trans-1,3-Dichloropropene	U		0.00207	0.00674	1.07	01/20/2019 07:17	WG1225917
trans-1,4-Dichloro-2-butene	U		0.00186	0.00668	1.06	01/21/2019 21:41	WG1226470
2,2-Dichloropropane	U		0.00107	0.00337	1.07	01/20/2019 07:17	WG1225917
Di-isopropyl ether	U		0.000467	0.00134	1.06	01/21/2019 21:41	WG1226470
Ethylbenzene	0.000783	J J	0.000714	0.00337	1.07	01/20/2019 07:17	WG1225917
Hexachloro-1,3-butadiene	U	UJ J0	0.0171	0.0337	1.07	01/20/2019 07:17	WG1225917
2-Hexanone	U		0.0135	0.0337	1.07	01/20/2019 07:17	WG1225917
n-Hexane	U		0.00142	0.00674	1.07	01/20/2019 07:17	WG1225917
Iodomethane	U		0.00815	0.0169	1.07	01/20/2019 07:17	WG1225917
Isopropylbenzene	0.00195	J J	0.00116	0.00337	1.07	01/20/2019 07:17	WG1225917
p-Isopropyltoluene	U		0.00314	0.00674	1.07	01/20/2019 07:17	WG1225917
2-Butanone (MEK)	0.0481		0.0169	0.0337	1.07	01/20/2019 07:17	WG1225917
Methylene Chloride	U		0.00894	0.0337	1.07	01/20/2019 07:17	WG1225917
4-Methyl-2-pentanone (MIBK)	U		0.0135	0.0337	1.07	01/20/2019 07:17	WG1225917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000398	0.00135	1.07	01/20/2019 07:17	WG1225917
Naphthalene	U	UJ J0	0.00421	0.0169	1.07	01/20/2019 07:17	WG1225917
n-Propylbenzene	U		0.00159	0.00674	1.07	01/20/2019 07:17	WG1225917
Styrene	U		0.00368	0.0169	1.07	01/20/2019 07:17	WG1225917
1,1,1,2-Tetrachloroethane	U		0.000674	0.00337	1.07	01/20/2019 07:17	WG1225917
1,1,2,2-Tetrachloroethane	U		0.000520	0.00334	1.06	01/21/2019 21:41	WG1226470
1,1,2-Trichlorotrifluoroethane	U		0.000910	0.00337	1.07	01/20/2019 07:17	WG1225917
Tetrachloroethene	U		0.000944	0.00337	1.07	01/20/2019 07:17	WG1225917
Toluene	0.0101		0.00169	0.00674	1.07	01/20/2019 07:17	WG1225917
1,2,3-Trichlorobenzene	U	UJ J0	0.000843	0.00337	1.07	01/20/2019 07:17	WG1225917
1,2,4-Trichlorobenzene	U		0.00650	0.0169	1.07	01/20/2019 07:17	WG1225917
1,1,1-Trichloroethane	U		0.000370	0.00337	1.07	01/20/2019 07:17	WG1225917
1,1,2-Trichloroethane	U		0.00119	0.00337	1.07	01/20/2019 07:17	WG1225917
Trichloroethene	U		0.000539	0.00135	1.07	01/20/2019 07:17	WG1225917
Trichlorofluoromethane	U		0.000674	0.00337	1.07	01/20/2019 07:17	WG1225917
1,2,3-Trichloropropane	U		0.00688	0.0169	1.07	01/20/2019 07:17	WG1225917
1,2,4-Trimethylbenzene	U		0.00156	0.00674	1.07	01/20/2019 07:17	WG1225917
1,2,3-Trimethylbenzene	U		0.00154	0.00668	1.06	01/21/2019 21:41	WG1226470
1,3,5-Trimethylbenzene	U		0.00146	0.00674	1.07	01/20/2019 07:17	WG1225917
Vinyl acetate	U		0.00475	0.0169	1.07	01/20/2019 07:17	WG1225917
Vinyl chloride	U		0.000921	0.00337	1.07	01/20/2019 07:17	WG1225917
Xylenes, Total	U		0.00644	0.00876	1.07	01/20/2019 07:17	WG1225917
(S) Toluene-d8	*97.9*			*75.0-131*		*01/20/2019 07:17*	WG1225917
(S) Toluene-d8	*95.3*			*75.0-131*		*01/21/2019 21:41*	WG1226470
(S) Dibromofluoromethane	*83.8*			*65.0-129*		*01/20/2019 07:17*	WG1225917
(S) Dibromofluoromethane	*94.9*			*65.0-129*		*01/21/2019 21:41*	WG1226470
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*01/20/2019 07:17*	WG1225917
(S) 4-Bromofluorobenzene	*98.4*			*67.0-138*		*01/21/2019 21:41*	WG1226470

JC 3/4/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.8		1	01/18/2019 10:13	WG1225025

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0185	U ~~J~~	0.0149	0.0272	1	01/20/2019 12:27	WG1226032
Acrylonitrile	U		0.00207	0.0136	1	01/20/2019 12:27	WG1226032
Benzene	U		0.000436	0.00109	1	01/20/2019 12:27	WG1226032
Bromobenzene	U		0.00114	0.0136	1	01/20/2019 12:27	WG1226032
Bromodichloromethane	U		0.000858	0.00272	1	01/20/2019 12:27	WG1226032
Bromochloromethane	U		0.00123	0.00544	1	01/20/2019 12:27	WG1226032
Bromoform	U		0.00651	0.0272	1	01/20/2019 12:27	WG1226032
Bromomethane	U		0.00403	0.0136	1	01/20/2019 12:27	WG1226032
n-Butylbenzene	U		0.00418	0.0136	1	01/20/2019 12:27	WG1226032
sec-Butylbenzene	U		0.00275	0.0136	1	01/20/2019 12:27	WG1226032
tert-Butylbenzene	U		0.00169	0.00544	1	01/20/2019 12:27	WG1226032
Carbon disulfide	U		0.00442	0.0136	1	01/20/2019 12:27	WG1226032
Carbon tetrachloride	U		0.00118	0.00544	1	01/20/2019 12:27	WG1226032
Chlorobenzene	U		0.000624	0.00272	1	01/20/2019 12:27	WG1226032
Chlorodibromomethane	U		0.000490	0.00272	1	01/20/2019 12:27	WG1226032
Chloroethane	U		0.00118	0.00544	1	01/20/2019 12:27	WG1226032
Chloroform	U		0.000452	0.00272	1	01/20/2019 12:27	WG1226032
Chloromethane	U		0.00151	0.0136	1	01/20/2019 12:27	WG1226032
2-Chlorotoluene	U		0.00100	0.00272	1	01/20/2019 12:27	WG1226032
4-Chlorotoluene	U		0.00123	0.00544	1	01/20/2019 12:27	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00555	0.0272	1	01/20/2019 12:27	WG1226032
1,2-Dibromoethane	U		0.000572	0.00272	1	01/20/2019 12:27	WG1226032
Dibromomethane	U		0.00109	0.00544	1	01/20/2019 12:27	WG1226032
1,2-Dichlorobenzene	U		0.00158	0.00544	1	01/20/2019 12:27	WG1226032
1,3-Dichlorobenzene	U		0.00185	0.00544	1	01/20/2019 12:27	WG1226032
1,4-Dichlorobenzene	U		0.00214	0.00544	1	01/20/2019 12:27	WG1226032
Dichlorodifluoromethane	U	UJ J0	0.000891	0.00272	1	01/20/2019 12:27	WG1226032
1,1-Dichloroethane	U		0.000626	0.00272	1	01/20/2019 12:27	WG1226032
1,2-Dichloroethane	U		0.000517	0.00272	1	01/20/2019 12:27	WG1226032
1,1-Dichloroethene	U		0.000544	0.00272	1	01/20/2019 12:27	WG1226032
cis-1,2-Dichloroethene	0.00436		0.000751	0.00272	1	01/20/2019 12:27	WG1226032
trans-1,2-Dichloroethene	U		0.00156	0.00544	1	01/20/2019 12:27	WG1226032
1,2-Dichloropropane	U		0.00138	0.00544	1	01/20/2019 12:27	WG1226032
1,1-Dichloropropene	U		0.000762	0.00272	1	01/20/2019 12:27	WG1226032
1,3-Dichloropropane	U		0.00191	0.00544	1	01/20/2019 12:27	WG1226032
cis-1,3-Dichloropropene	U		0.000738	0.00272	1	01/20/2019 12:27	WG1226032
trans-1,3-Dichloropropene	U		0.00167	0.00544	1	01/20/2019 12:27	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00152	0.00544	1	01/20/2019 12:27	WG1226032
2,2-Dichloropropane	U		0.000863	0.00272	1	01/20/2019 12:27	WG1226032
Di-isopropyl ether	U		0.000381	0.00109	1	01/20/2019 12:27	WG1226032
Ethylbenzene	U		0.000577	0.00272	1	01/20/2019 12:27	WG1226032
Hexachloro-1,3-butadiene	U		0.0138	0.0272	1	01/20/2019 12:27	WG1226032
2-Hexanone	U		0.0109	0.0272	1	01/20/2019 12:27	WG1226032
n-Hexane	0.00130	J J	0.00115	0.00544	1	01/20/2019 12:27	WG1226032
Iodomethane	U		0.00659	0.0136	1	01/20/2019 12:27	WG1226032
Isopropylbenzene	U		0.000940	0.00272	1	01/20/2019 12:27	WG1226032
p-Isopropyltoluene	U		0.00254	0.00544	1	01/20/2019 12:27	WG1226032
2-Butanone (MEK)	U		0.0136	0.0272	1	01/20/2019 12:27	WG1226032
Methylene Chloride	U		0.00723	0.0272	1	01/20/2019 12:27	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	01/20/2019 12:27	WG1226032

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000321	0.00109	1	01/20/2019 12:27	WG1226032
Naphthalene	U	UJ J0	0.00340	0.0136	1	01/20/2019 12:27	WG1226032
n-Propylbenzene	U		0.00128	0.00544	1	01/20/2019 12:27	WG1226032
Styrene	U		0.00297	0.0136	1	01/20/2019 12:27	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000544	0.00272	1	01/20/2019 12:27	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000425	0.00272	1	01/20/2019 12:27	WG1226032
1,1,2-Trichlorotrifluoroethane	U	UJ J0	0.000735	0.00272	1	01/20/2019 12:27	WG1226032
Tetrachloroethene	0.00295		0.000762	0.00272	1	01/20/2019 12:27	WG1226032
Toluene	U		0.00136	0.00544	1	01/20/2019 12:27	WG1226032
1,2,3-Trichlorobenzene	U	UJ J0 J4	0.000680	0.00272	1	01/20/2019 12:27	WG1226032
1,2,4-Trichlorobenzene	U	UJ J0	0.00525	0.0136	1	01/20/2019 12:27	WG1226032
1,1,1-Trichloroethane	U		0.000299	0.00272	1	01/20/2019 12:27	WG1226032
1,1,2-Trichloroethane	U		0.000961	0.00272	1	01/20/2019 12:27	WG1226032
Trichloroethene	0.00351		0.000436	0.00109	1	01/20/2019 12:27	WG1226032
Trichlorofluoromethane	U		0.000544	0.00272	1	01/20/2019 12:27	WG1226032
1,2,3-Trichloropropane	U		0.00555	0.0136	1	01/20/2019 12:27	WG1226032
1,2,4-Trimethylbenzene	U		0.00126	0.00544	1	01/20/2019 12:27	WG1226032
1,2,3-Trimethylbenzene	U		0.00125	0.00544	1	01/20/2019 12:27	WG1226032
1,3,5-Trimethylbenzene	U		0.00118	0.00544	1	01/20/2019 12:27	WG1226032
Vinyl acetate	U	UJ J0	0.00383	0.0136	1	01/20/2019 12:27	WG1226032
Vinyl chloride	U	UJ J0	0.000744	0.00272	1	01/20/2019 12:27	WG1226032
Xylenes, Total	U		0.00520	0.00708	1	01/20/2019 12:27	WG1226032
(S) Toluene-d8	*109*			*75.0-131*		*01/20/2019 12:27*	WG1226032
(S) Dibromofluoromethane	*91.7*			*65.0-129*		*01/20/2019 12:27*	WG1226032
(S) 4-Bromofluorobenzene	*98.2*			*67.0-138*		*01/20/2019 12:27*	WG1226032

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	01/18/2019 10:13	WG1225025

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0287	1	01/20/2019 12:47	WG1226032
Acrylonitrile	U		0.00218	0.0144	1	01/20/2019 12:47	WG1226032
Benzene	U		0.000459	0.00115	1	01/20/2019 12:47	WG1226032
Bromobenzene	U		0.00121	0.0144	1	01/20/2019 12:47	WG1226032
Bromodichloromethane	U		0.000905	0.00287	1	01/20/2019 12:47	WG1226032
Bromochloromethane	U		0.00130	0.00574	1	01/20/2019 12:47	WG1226032
Bromoform	U		0.00687	0.0287	1	01/20/2019 12:47	WG1226032
Bromomethane	U		0.00425	0.0144	1	01/20/2019 12:47	WG1226032
n-Butylbenzene	U		0.00441	0.0144	1	01/20/2019 12:47	WG1226032
sec-Butylbenzene	U		0.00290	0.0144	1	01/20/2019 12:47	WG1226032
tert-Butylbenzene	U		0.00178	0.00574	1	01/20/2019 12:47	WG1226032
Carbon disulfide	U		0.00466	0.0144	1	01/20/2019 12:47	WG1226032
Carbon tetrachloride	U		0.00124	0.00574	1	01/20/2019 12:47	WG1226032
Chlorobenzene	U		0.000658	0.00287	1	01/20/2019 12:47	WG1226032
Chlorodibromomethane	U		0.000517	0.00287	1	01/20/2019 12:47	WG1226032
Chloroethane	U		0.00124	0.00574	1	01/20/2019 12:47	WG1226032
Chloroform	U		0.000476	0.00287	1	01/20/2019 12:47	WG1226032
Chloromethane	U		0.00160	0.0144	1	01/20/2019 12:47	WG1226032
2-Chlorotoluene	U		0.00106	0.00287	1	01/20/2019 12:47	WG1226032
4-Chlorotoluene	U		0.00130	0.00574	1	01/20/2019 12:47	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00586	0.0287	1	01/20/2019 12:47	WG1226032
1,2-Dibromoethane	U		0.000603	0.00287	1	01/20/2019 12:47	WG1226032
Dibromomethane	U		0.00115	0.00574	1	01/20/2019 12:47	WG1226032
1,2-Dichlorobenzene	U		0.00166	0.00574	1	01/20/2019 12:47	WG1226032
1,3-Dichlorobenzene	U		0.00195	0.00574	1	01/20/2019 12:47	WG1226032
1,4-Dichlorobenzene	U		0.00226	0.00574	1	01/20/2019 12:47	WG1226032
Dichlorodifluoromethane	U UJ	J0	0.000939	0.00287	1	01/20/2019 12:47	WG1226032
1,1-Dichloroethane	U		0.000660	0.00287	1	01/20/2019 12:47	WG1226032
1,2-Dichloroethane	U		0.000545	0.00287	1	01/20/2019 12:47	WG1226032
1,1-Dichloroethene	U		0.000574	0.00287	1	01/20/2019 12:47	WG1226032
cis-1,2-Dichloroethene	0.0158		0.000792	0.00287	1	01/20/2019 12:47	WG1226032
trans-1,2-Dichloroethene	U		0.00164	0.00574	1	01/20/2019 12:47	WG1226032
1,2-Dichloropropane	U		0.00146	0.00574	1	01/20/2019 12:47	WG1226032
1,1-Dichloropropene	U		0.000804	0.00287	1	01/20/2019 12:47	WG1226032
1,3-Dichloropropane	U		0.00201	0.00574	1	01/20/2019 12:47	WG1226032
cis-1,3-Dichloropropene	U		0.000778	0.00287	1	01/20/2019 12:47	WG1226032
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	01/20/2019 12:47	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	01/20/2019 12:47	WG1226032
2,2-Dichloropropane	U		0.000910	0.00287	1	01/20/2019 12:47	WG1226032
Di-isopropyl ether	U		0.000402	0.00115	1	01/20/2019 12:47	WG1226032
Ethylbenzene	U		0.000608	0.00287	1	01/20/2019 12:47	WG1226032
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	01/20/2019 12:47	WG1226032
2-Hexanone	U		0.0115	0.0287	1	01/20/2019 12:47	WG1226032
n-Hexane	U		0.00122	0.00574	1	01/20/2019 12:47	WG1226032
Iodomethane	U		0.00695	0.0144	1	01/20/2019 12:47	WG1226032
Isopropylbenzene	U		0.000991	0.00287	1	01/20/2019 12:47	WG1226032
p-Isopropyltoluene	U		0.00268	0.00574	1	01/20/2019 12:47	WG1226032
2-Butanone (MEK)	U		0.0144	0.0287	1	01/20/2019 12:47	WG1226032
Methylene Chloride	U		0.00762	0.0287	1	01/20/2019 12:47	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	01/20/2019 12:47	WG1226032

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B11D11-20

Collected date/time: 01/15/19 09:23

SAMPLE RESULTS - 03

L1061673

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000339	0.00115	1	01/20/2019 12:47	WG1226032
Naphthalene	U	UJ J0	0.00358	0.0144	1	01/20/2019 12:47	WG1226032
n-Propylbenzene	U		0.00135	0.00574	1	01/20/2019 12:47	WG1226032
Styrene	U		0.00313	0.0144	1	01/20/2019 12:47	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	01/20/2019 12:47	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	01/20/2019 12:47	WG1226032
1,1,2-Trichlorotrifluoroethane	U	UJ J0	0.000775	0.00287	1	01/20/2019 12:47	WG1226032
Tetrachloroethene	0.0526		0.000804	0.00287	1	01/20/2019 12:47	WG1226032
Toluene	U		0.00144	0.00574	1	01/20/2019 12:47	WG1226032
1,2,3-Trichlorobenzene	U	UJ J0 J4	0.000718	0.00287	1	01/20/2019 12:47	WG1226032
1,2,4-Trichlorobenzene	U	UJ J0	0.00553	0.0144	1	01/20/2019 12:47	WG1226032
1,1,1-Trichloroethane	U		0.000316	0.00287	1	01/20/2019 12:47	WG1226032
1,1,2-Trichloroethane	U		0.00101	0.00287	1	01/20/2019 12:47	WG1226032
Trichloroethene	0.0138		0.000459	0.00115	1	01/20/2019 12:47	WG1226032
Trichlorofluoromethane	U		0.000574	0.00287	1	01/20/2019 12:47	WG1226032
1,2,3-Trichloropropane	U		0.00586	0.0144	1	01/20/2019 12:47	WG1226032
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	01/20/2019 12:47	WG1226032
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	01/20/2019 12:47	WG1226032
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	01/20/2019 12:47	WG1226032
Vinyl acetate	U	UJ J0	0.00404	0.0144	1	01/20/2019 12:47	WG1226032
Vinyl chloride	U	UJ J0	0.000784	0.00287	1	01/20/2019 12:47	WG1226032
Xylenes, Total	U		0.00549	0.00746	1	01/20/2019 12:47	WG1226032
(S) Toluene-d8	*111*			*75.0-131*		*01/20/2019 12:47*	WG1226032
(S) Dibromofluoromethane	*90.5*			*65.0-129*		*01/20/2019 12:47*	WG1226032
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*01/20/2019 12:47*	WG1226032

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.1		1	01/17/2019 13:00	WG1224621

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0274	1	01/17/2019 20:35	WG1224822
Acrylonitrile	U		0.00208	0.0137	1	01/17/2019 20:35	WG1224822
Benzene	U		0.000439	0.00110	1	01/17/2019 20:35	WG1224822
Bromobenzene	U		0.00115	0.0137	1	01/17/2019 20:35	WG1224822
Bromodichloromethane	U		0.000865	0.00274	1	01/17/2019 20:35	WG1224822
Bromochloromethane	U		0.00124	0.00549	1	01/17/2019 20:35	WG1224822
Bromoform	U UJ	J0	0.00656	0.0274	1	01/17/2019 20:35	WG1224822
Bromomethane	U		0.00406	0.0137	1	01/17/2019 20:35	WG1224822
n-Butylbenzene	U		0.00421	0.0137	1	01/17/2019 20:35	WG1224822
sec-Butylbenzene	U		0.00278	0.0137	1	01/17/2019 20:35	WG1224822
tert-Butylbenzene	U		0.00170	0.00549	1	01/17/2019 20:35	WG1224822
Carbon disulfide	U		0.00445	0.0137	1	01/17/2019 20:35	WG1224822
Carbon tetrachloride	U		0.00118	0.00549	1	01/17/2019 20:35	WG1224822
Chlorobenzene	U		0.000629	0.00274	1	01/17/2019 20:35	WG1224822
Chlorodibromomethane	U		0.000494	0.00274	1	01/17/2019 20:35	WG1224822
Chloroethane	U		0.00118	0.00549	1	01/17/2019 20:35	WG1224822
Chloroform	U		0.000455	0.00274	1	01/17/2019 20:35	WG1224822
Chloromethane	U		0.00152	0.0137	1	01/17/2019 20:35	WG1224822
2-Chlorotoluene	U		0.00101	0.00274	1	01/17/2019 20:35	WG1224822
4-Chlorotoluene	U		0.00124	0.00549	1	01/17/2019 20:35	WG1224822
1,2-Dibromo-3-Chloropropane	U		0.00560	0.0274	1	01/18/2019 12:02	WG1225374
1,2-Dibromoethane	U		0.000576	0.00274	1	01/17/2019 20:35	WG1224822
Dibromomethane	U		0.00110	0.00549	1	01/17/2019 20:35	WG1224822
1,2-Dichlorobenzene	U		0.00159	0.00549	1	01/17/2019 20:35	WG1224822
1,3-Dichlorobenzene	U		0.00187	0.00549	1	01/17/2019 20:35	WG1224822
1,4-Dichlorobenzene	U		0.00216	0.00549	1	01/17/2019 20:35	WG1224822
Dichlorodifluoromethane	U UJ	J0	0.000897	0.00274	1	01/18/2019 12:02	WG1225374
1,1-Dichloroethane	U		0.000631	0.00274	1	01/17/2019 20:35	WG1224822
1,2-Dichloroethane	U		0.000521	0.00274	1	01/17/2019 20:35	WG1224822
1,1-Dichloroethene	U		0.000549	0.00274	1	01/18/2019 12:02	WG1225374
cis-1,2-Dichloroethene	0.0292		0.000757	0.00274	1	01/18/2019 12:02	WG1225374
trans-1,2-Dichloroethene	U		0.00157	0.00549	1	01/17/2019 20:35	WG1224822
1,2-Dichloropropane	U		0.00139	0.00549	1	01/17/2019 20:35	WG1224822
1,1-Dichloropropene	U		0.000768	0.00274	1	01/17/2019 20:35	WG1224822
1,3-Dichloropropane	U		0.00192	0.00549	1	01/17/2019 20:35	WG1224822
cis-1,3-Dichloropropene	U		0.000744	0.00274	1	01/17/2019 20:35	WG1224822
trans-1,3-Dichloropropene	U		0.00168	0.00549	1	01/17/2019 20:35	WG1224822
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	01/18/2019 12:02	WG1225374
2,2-Dichloropropane	U		0.000870	0.00274	1	01/17/2019 20:35	WG1224822
Di-isopropyl ether	U		0.000384	0.00110	1	01/18/2019 12:02	WG1225374
Ethylbenzene	U		0.000581	0.00274	1	01/17/2019 20:35	WG1224822
Hexachloro-1,3-butadiene	U UJ	J0	0.0139	0.0274	1	01/17/2019 20:35	WG1224822
2-Hexanone	U		0.0110	0.0274	1	01/17/2019 20:35	WG1224822
n-Hexane	0.00343 J	J	0.00116	0.00549	1	01/17/2019 20:35	WG1224822
Iodomethane	U		0.00664	0.0137	1	01/17/2019 20:35	WG1224822
Isopropylbenzene	U		0.000947	0.00274	1	01/17/2019 20:35	WG1224822
p-Isopropyltoluene	U		0.00256	0.00549	1	01/17/2019 20:35	WG1224822
2-Butanone (MEK)	U		0.0137	0.0274	1	01/17/2019 20:35	WG1224822
Methylene Chloride	U		0.00728	0.0274	1	01/17/2019 20:35	WG1224822
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	01/17/2019 20:35	WG1224822

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	01/17/2019 20:35	WG1224822
Naphthalene	U	UJ J0	0.00342	0.0137	1	01/18/2019 12:02	WG1225374
n-Propylbenzene	U		0.00129	0.00549	1	01/17/2019 20:35	WG1224822
Styrene	U		0.00300	0.0137	1	01/17/2019 20:35	WG1224822
1,1,1,2-Tetrachloroethane	U		0.000549	0.00274	1	01/17/2019 20:35	WG1224822
1,1,2,2-Tetrachloroethane	U		0.000428	0.00274	1	01/18/2019 12:02	WG1225374
1,1,2-Trichlorotrifluoroethane	U		0.000741	0.00274	1	01/17/2019 20:35	WG1224822
Tetrachloroethene	1.77		0.000768	0.00274	1	01/17/2019 20:35	WG1224822
Toluene	U		0.00137	0.00549	1	01/17/2019 20:35	WG1224822
1,2,3-Trichlorobenzene	U	UJ J0	0.000686	0.00274	1	01/18/2019 12:02	WG1225374
1,2,4-Trichlorobenzene	U	UJ J0	0.00529	0.0137	1	01/17/2019 20:35	WG1224822
1,1,1-Trichloroethane	U		0.000302	0.00274	1	01/17/2019 20:35	WG1224822
1,1,2-Trichloroethane	U		0.000969	0.00274	1	01/17/2019 20:35	WG1224822
Trichloroethene	0.0723		0.000439	0.00110	1	01/17/2019 20:35	WG1224822
Trichlorofluoromethane	U		0.000549	0.00274	1	01/17/2019 20:35	WG1224822
1,2,3-Trichloropropane	U		0.00560	0.0137	1	01/17/2019 20:35	WG1224822
1,2,4-Trimethylbenzene	U		0.00127	0.00549	1	01/17/2019 20:35	WG1224822
1,2,3-Trimethylbenzene	U	UJ J0 J4	0.00126	0.00549	1	01/17/2019 20:35	WG1224822
1,3,5-Trimethylbenzene	U		0.00118	0.00549	1	01/17/2019 20:35	WG1224822
Vinyl acetate	U		0.00386	0.0137	1	01/17/2019 20:35	WG1224822
Vinyl chloride	U		0.000749	0.00274	1	01/17/2019 20:35	WG1224822
Xylenes, Total	U		0.00524	0.00713	1	01/17/2019 20:35	WG1224822
(S) Toluene-d8	*107*			*75.0-131*		*01/17/2019 20:35*	WG1224822
(S) Toluene-d8	*112*			*75.0-131*		*01/18/2019 12:02*	WG1225374
(S) Dibromofluoromethane	*85.8*			*65.0-129*		*01/17/2019 20:35*	WG1224822
(S) Dibromofluoromethane	*86.6*			*65.0-129*		*01/18/2019 12:02*	WG1225374
(S) 4-Bromofluorobenzene	*97.0*			*67.0-138*		*01/17/2019 20:35*	WG1224822
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*01/18/2019 12:02*	WG1225374

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B11D11-30
Collected date/time: 01/15/19 09:55

SAMPLE RESULTS - 05

L1061673

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.3		1	01/18/2019 10:13	WG1225025

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0167	U	~~J~~	0.0142	0.0260	1	01/20/2019 13:06	WG1226032
Acrylonitrile	U			0.00197	0.0130	1	01/20/2019 13:06	WG1226032
Benzene	U			0.000415	0.00104	1	01/20/2019 13:06	WG1226032
Bromobenzene	U			0.00109	0.0130	1	01/20/2019 13:06	WG1226032
Bromodichloromethane	U			0.000818	0.00260	1	01/20/2019 13:06	WG1226032
Bromochloromethane	U			0.00117	0.00519	1	01/20/2019 13:06	WG1226032
Bromoform	U			0.00621	0.0260	1	01/20/2019 13:06	WG1226032
Bromomethane	U			0.00384	0.0130	1	01/20/2019 13:06	WG1226032
n-Butylbenzene	U			0.00399	0.0130	1	01/20/2019 13:06	WG1226032
sec-Butylbenzene	U			0.00263	0.0130	1	01/20/2019 13:06	WG1226032
tert-Butylbenzene	U			0.00161	0.00519	1	01/20/2019 13:06	WG1226032
Carbon disulfide	U			0.00422	0.0130	1	01/20/2019 13:06	WG1226032
Carbon tetrachloride	U			0.00112	0.00519	1	01/20/2019 13:06	WG1226032
Chlorobenzene	U			0.000595	0.00260	1	01/20/2019 13:06	WG1226032
Chlorodibromomethane	U			0.000467	0.00260	1	01/20/2019 13:06	WG1226032
Chloroethane	U			0.00112	0.00519	1	01/20/2019 13:06	WG1226032
Chloroform	0.000542	J	J	0.000431	0.00260	1	01/20/2019 13:06	WG1226032
Chloromethane	U			0.00144	0.0130	1	01/20/2019 13:06	WG1226032
2-Chlorotoluene	U			0.000955	0.00260	1	01/20/2019 13:06	WG1226032
4-Chlorotoluene	U			0.00117	0.00519	1	01/20/2019 13:06	WG1226032
1,2-Dibromo-3-Chloropropane	U			0.00529	0.0260	1	01/20/2019 13:06	WG1226032
1,2-Dibromoethane	U			0.000545	0.00260	1	01/20/2019 13:06	WG1226032
Dibromomethane	U			0.00104	0.00519	1	01/20/2019 13:06	WG1226032
1,2-Dichlorobenzene	U			0.00151	0.00519	1	01/20/2019 13:06	WG1226032
1,3-Dichlorobenzene	U			0.00176	0.00519	1	01/20/2019 13:06	WG1226032
1,4-Dichlorobenzene	U			0.00205	0.00519	1	01/20/2019 13:06	WG1226032
Dichlorodifluoromethane	U	UJ	J0	0.000849	0.00260	1	01/20/2019 13:06	WG1226032
1,1-Dichloroethane	U			0.000597	0.00260	1	01/20/2019 13:06	WG1226032
1,2-Dichloroethane	U			0.000493	0.00260	1	01/20/2019 13:06	WG1226032
1,1-Dichloroethene	U			0.000519	0.00260	1	01/20/2019 13:06	WG1226032
cis-1,2-Dichloroethene	0.0698			0.000716	0.00260	1	01/20/2019 13:06	WG1226032
trans-1,2-Dichloroethene	0.00410	J	J	0.00148	0.00519	1	01/20/2019 13:06	WG1226032
1,2-Dichloropropane	U			0.00132	0.00519	1	01/20/2019 13:06	WG1226032
1,1-Dichloropropene	U			0.000727	0.00260	1	01/20/2019 13:06	WG1226032
1,3-Dichloropropane	U			0.00182	0.00519	1	01/20/2019 13:06	WG1226032
cis-1,3-Dichloropropene	U			0.000704	0.00260	1	01/20/2019 13:06	WG1226032
trans-1,3-Dichloropropene	U			0.00159	0.00519	1	01/20/2019 13:06	WG1226032
trans-1,4-Dichloro-2-butene	U			0.00145	0.00519	1	01/20/2019 13:06	WG1226032
2,2-Dichloropropane	U			0.000823	0.00260	1	01/20/2019 13:06	WG1226032
Di-isopropyl ether	U			0.000363	0.00104	1	01/20/2019 13:06	WG1226032
Ethylbenzene	U			0.000550	0.00260	1	01/20/2019 13:06	WG1226032
Hexachloro-1,3-butadiene	U			0.0132	0.0260	1	01/20/2019 13:06	WG1226032
2-Hexanone	U			0.0104	0.0260	1	01/20/2019 13:06	WG1226032
n-Hexane	0.00158	J	J	0.00110	0.00519	1	01/20/2019 13:06	WG1226032
Iodomethane	U			0.00628	0.0130	1	01/20/2019 13:06	WG1226032
Isopropylbenzene	U			0.000896	0.00260	1	01/20/2019 13:06	WG1226032
p-Isopropyltoluene	U			0.00242	0.00519	1	01/20/2019 13:06	WG1226032
2-Butanone (MEK)	U			0.0130	0.0260	1	01/20/2019 13:06	WG1226032
Methylene Chloride	U			0.00689	0.0260	1	01/20/2019 13:06	WG1226032
4-Methyl-2-pentanone (MIBK)	U			0.0104	0.0260	1	01/20/2019 13:06	WG1226032

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000306	0.00104	1	01/20/2019 13:06	WG1226032
Naphthalene	U	UJ	J0	0.00324	0.0130	1	01/20/2019 13:06	WG1226032
n-Propylbenzene	U			0.00123	0.00519	1	01/20/2019 13:06	WG1226032
Styrene	U			0.00283	0.0130	1	01/20/2019 13:06	WG1226032
1,1,1,2-Tetrachloroethane	U			0.000519	0.00260	1	01/20/2019 13:06	WG1226032
1,1,2,2-Tetrachloroethane	U			0.000405	0.00260	1	01/20/2019 13:06	WG1226032
1,1,2-Trichlorotrifluoroethane	U	UJ	J0	0.000701	0.00260	1	01/20/2019 13:06	WG1226032
Tetrachloroethene	4.42			0.00291	0.0104	4	01/22/2019 22:04	WG1227024
Toluene	U			0.00130	0.00519	1	01/20/2019 13:06	WG1226032
1,2,3-Trichlorobenzene	U	UJ	J0 J4	0.000649	0.00260	1	01/20/2019 13:06	WG1226032
1,2,4-Trichlorobenzene	U	UJ	J0	0.00500	0.0130	1	01/20/2019 13:06	WG1226032
1,1,1-Trichloroethane	U			0.000286	0.00260	1	01/20/2019 13:06	WG1226032
1,1,2-Trichloroethane	U			0.000917	0.00260	1	01/20/2019 13:06	WG1226032
Trichloroethene	0.226			0.000415	0.00104	1	01/20/2019 13:06	WG1226032
Trichlorofluoromethane	U			0.000519	0.00260	1	01/20/2019 13:06	WG1226032
1,2,3-Trichloropropane	U			0.00529	0.0130	1	01/20/2019 13:06	WG1226032
1,2,4-Trimethylbenzene	0.00144	J	J	0.00120	0.00519	1	01/20/2019 13:06	WG1226032
1,2,3-Trimethylbenzene	U			0.00119	0.00519	1	01/20/2019 13:06	WG1226032
1,3,5-Trimethylbenzene	U			0.00112	0.00519	1	01/20/2019 13:06	WG1226032
Vinyl acetate	U	UJ	J0	0.00365	0.0130	1	01/20/2019 13:06	WG1226032
Vinyl chloride	U	UJ	J0	0.000709	0.00260	1	01/20/2019 13:06	WG1226032
Xylenes, Total	U			0.00496	0.00675	1	01/20/2019 13:06	WG1226032
(S) Toluene-d8	*111*				*75.0-131*		*01/20/2019 13:06*	WG1226032
(S) Toluene-d8	*104*				*75.0-131*		*01/22/2019 22:04*	WG1227024
(S) Dibromofluoromethane	*89.3*				*65.0-129*		*01/20/2019 13:06*	WG1226032
(S) Dibromofluoromethane	*102*				*65.0-129*		*01/22/2019 22:04*	WG1227024
(S) 4-Bromofluorobenzene	*114*				*67.0-138*		*01/20/2019 13:06*	WG1226032
(S) 4-Bromofluorobenzene	*105*				*67.0-138*		*01/22/2019 22:04*	WG1227024

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	01/18/2019 10:13	WG1225025

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0347		0.0153	0.0280	1	01/20/2019 13:48	WG1226032
Acrylonitrile	U		0.00213	0.0140	1	01/20/2019 13:48	WG1226032
Benzene	0.000469	J J	0.000447	0.00112	1	01/20/2019 13:48	WG1226032
Bromobenzene	U		0.00117	0.0140	1	01/20/2019 13:48	WG1226032
Bromodichloromethane	U		0.000881	0.00280	1	01/20/2019 13:48	WG1226032
Bromochloromethane	U		0.00126	0.00559	1	01/20/2019 13:48	WG1226032
Bromoform	U		0.00669	0.0280	1	01/20/2019 13:48	WG1226032
Bromomethane	U		0.00414	0.0140	1	01/20/2019 13:48	WG1226032
n-Butylbenzene	U		0.00430	0.0140	1	01/20/2019 13:48	WG1226032
sec-Butylbenzene	U		0.00283	0.0140	1	01/20/2019 13:48	WG1226032
tert-Butylbenzene	U		0.00173	0.00559	1	01/20/2019 13:48	WG1226032
Carbon disulfide	U		0.00454	0.0140	1	01/20/2019 13:48	WG1226032
Carbon tetrachloride	U		0.00121	0.00559	1	01/20/2019 13:48	WG1226032
Chlorobenzene	U		0.000641	0.00280	1	01/20/2019 13:48	WG1226032
Chlorodibromomethane	U		0.000503	0.00280	1	01/20/2019 13:48	WG1226032
Chloroethane	U		0.00121	0.00559	1	01/20/2019 13:48	WG1226032
Chloroform	0.000511	J J	0.000464	0.00280	1	01/20/2019 13:48	WG1226032
Chloromethane	U		0.00155	0.0140	1	01/20/2019 13:48	WG1226032
2-Chlorotoluene	U		0.00103	0.00280	1	01/20/2019 13:48	WG1226032
4-Chlorotoluene	U		0.00126	0.00559	1	01/20/2019 13:48	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0280	1	01/20/2019 13:48	WG1226032
1,2-Dibromoethane	U		0.000587	0.00280	1	01/20/2019 13:48	WG1226032
Dibromomethane	U		0.00112	0.00559	1	01/20/2019 13:48	WG1226032
1,2-Dichlorobenzene	U		0.00162	0.00559	1	01/20/2019 13:48	WG1226032
1,3-Dichlorobenzene	U		0.00190	0.00559	1	01/20/2019 13:48	WG1226032
1,4-Dichlorobenzene	U		0.00220	0.00559	1	01/20/2019 13:48	WG1226032
Dichlorodifluoromethane	U	UJ J0	0.000915	0.00280	1	01/20/2019 13:48	WG1226032
1,1-Dichloroethane	U		0.000643	0.00280	1	01/20/2019 13:48	WG1226032
1,2-Dichloroethane	U		0.000531	0.00280	1	01/20/2019 13:48	WG1226032
1,1-Dichloroethene	0.00171	J J	0.000559	0.00280	1	01/20/2019 13:48	WG1226032
cis-1,2-Dichloroethene	0.574		0.000772	0.00280	1	01/20/2019 13:48	WG1226032
trans-1,2-Dichloroethene	0.00269	J J	0.00160	0.00559	1	01/20/2019 13:48	WG1226032
1,2-Dichloropropane	U		0.00142	0.00559	1	01/20/2019 13:48	WG1226032
1,1-Dichloropropene	U		0.000783	0.00280	1	01/20/2019 13:48	WG1226032
1,3-Dichloropropane	U		0.00196	0.00559	1	01/20/2019 13:48	WG1226032
cis-1,3-Dichloropropene	U		0.000758	0.00280	1	01/20/2019 13:48	WG1226032
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	01/20/2019 13:48	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00157	0.00559	1	01/20/2019 13:48	WG1226032
2,2-Dichloropropane	U		0.000887	0.00280	1	01/20/2019 13:48	WG1226032
Di-isopropyl ether	U		0.000391	0.00112	1	01/20/2019 13:48	WG1226032
Ethylbenzene	U		0.000593	0.00280	1	01/20/2019 13:48	WG1226032
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	01/20/2019 13:48	WG1226032
2-Hexanone	U		0.0112	0.0280	1	01/20/2019 13:48	WG1226032
n-Hexane	0.00199	J J	0.00119	0.00559	1	01/20/2019 13:48	WG1226032
Iodomethane	U		0.00677	0.0140	1	01/20/2019 13:48	WG1226032
Isopropylbenzene	U		0.000965	0.00280	1	01/20/2019 13:48	WG1226032
p-Isopropyltoluene	U		0.00261	0.00559	1	01/20/2019 13:48	WG1226032
2-Butanone (MEK)	U		0.0140	0.0280	1	01/20/2019 13:48	WG1226032
Methylene Chloride	U		0.00743	0.0280	1	01/20/2019 13:48	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	01/20/2019 13:48	WG1226032

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B11D11-35

Collected date/time: 01/15/19 10:00

SAMPLE RESULTS - 06

L1061673

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	01/20/2019 13:48	WG1226032
Naphthalene	U UJ	J0	0.00349	0.0140	1	01/20/2019 13:48	WG1226032
n-Propylbenzene	U		0.00132	0.00559	1	01/20/2019 13:48	WG1226032
Styrene	U		0.00305	0.0140	1	01/20/2019 13:48	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000559	0.00280	1	01/20/2019 13:48	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000436	0.00280	1	01/20/2019 13:48	WG1226032
1,1,2-Trichlorotrifluoroethane	U UJ	J0	0.000755	0.00280	1	01/20/2019 13:48	WG1226032
Tetrachloroethene	2.60		0.00313	0.0112	4	01/22/2019 22:24	WG1227024
Toluene	0.00160 J	J	0.00140	0.00559	1	01/20/2019 13:48	WG1226032
1,2,3-Trichlorobenzene	U UJ	J0 J4	0.000699	0.00280	1	01/20/2019 13:48	WG1226032
1,2,4-Trichlorobenzene	U UJ	J0	0.00539	0.0140	1	01/20/2019 13:48	WG1226032
1,1,1-Trichloroethane	U		0.000308	0.00280	1	01/20/2019 13:48	WG1226032
1,1,2-Trichloroethane	U		0.000988	0.00280	1	01/20/2019 13:48	WG1226032
Trichloroethene	0.441		0.000447	0.00112	1	01/20/2019 13:48	WG1226032
Trichlorofluoromethane	U		0.000559	0.00280	1	01/20/2019 13:48	WG1226032
1,2,3-Trichloropropane	U		0.00570	0.0140	1	01/20/2019 13:48	WG1226032
1,2,4-Trimethylbenzene	0.00131 J	J	0.00130	0.00559	1	01/20/2019 13:48	WG1226032
1,2,3-Trimethylbenzene	U		0.00129	0.00559	1	01/20/2019 13:48	WG1226032
1,3,5-Trimethylbenzene	U		0.00121	0.00559	1	01/20/2019 13:48	WG1226032
Vinyl acetate	U UJ	J0	0.00394	0.0140	1	01/20/2019 13:48	WG1226032
Vinyl chloride	U UJ	J0	0.000764	0.00280	1	01/20/2019 13:48	WG1226032
Xylenes, Total	U		0.00535	0.00727	1	01/20/2019 13:48	WG1226032
(S) Toluene-d8	*106*			*75.0-131*		*01/20/2019 13:48*	WG1226032
(S) Toluene-d8	*101*			*75.0-131*		*01/22/2019 22:24*	WG1227024
(S) Dibromofluoromethane	*96.7*			*65.0-129*		*01/20/2019 13:48*	WG1226032
(S) Dibromofluoromethane	*100*			*65.0-129*		*01/22/2019 22:24*	WG1227024
(S) 4-Bromofluorobenzene	*88.7*			*67.0-138*		*01/20/2019 13:48*	WG1226032
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/22/2019 22:24*	WG1227024

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.6		1	01/18/2019 10:13	WG1225025

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0204	U ~~J~~	0.0150	0.0273	1	01/20/2019 14:08	WG1226032
Acrylonitrile	U		0.00207	0.0136	1	01/20/2019 14:08	WG1226032
Benzene	U		0.000437	0.00109	1	01/20/2019 14:08	WG1226032
Bromobenzene	U		0.00115	0.0136	1	01/20/2019 14:08	WG1226032
Bromodichloromethane	U		0.000860	0.00273	1	01/20/2019 14:08	WG1226032
Bromochloromethane	U		0.00123	0.00546	1	01/20/2019 14:08	WG1226032
Bromoform	U		0.00653	0.0273	1	01/20/2019 14:08	WG1226032
Bromomethane	U		0.00404	0.0136	1	01/20/2019 14:08	WG1226032
n-Butylbenzene	U		0.00419	0.0136	1	01/20/2019 14:08	WG1226032
sec-Butylbenzene	U		0.00276	0.0136	1	01/20/2019 14:08	WG1226032
tert-Butylbenzene	U		0.00169	0.00546	1	01/20/2019 14:08	WG1226032
Carbon disulfide	U		0.00443	0.0136	1	01/20/2019 14:08	WG1226032
Carbon tetrachloride	U		0.00118	0.00546	1	01/20/2019 14:08	WG1226032
Chlorobenzene	U		0.000625	0.00273	1	01/20/2019 14:08	WG1226032
Chlorodibromomethane	U		0.000491	0.00273	1	01/20/2019 14:08	WG1226032
Chloroethane	U		0.00118	0.00546	1	01/20/2019 14:08	WG1226032
Chloroform	0.000549	J J	0.000453	0.00273	1	01/20/2019 14:08	WG1226032
Chloromethane	U		0.00152	0.0136	1	01/20/2019 14:08	WG1226032
2-Chlorotoluene	U		0.00100	0.00273	1	01/20/2019 14:08	WG1226032
4-Chlorotoluene	U		0.00123	0.00546	1	01/20/2019 14:08	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	01/20/2019 14:08	WG1226032
1,2-Dibromoethane	U		0.000573	0.00273	1	01/20/2019 14:08	WG1226032
Dibromomethane	U		0.00109	0.00546	1	01/20/2019 14:08	WG1226032
1,2-Dichlorobenzene	U		0.00158	0.00546	1	01/20/2019 14:08	WG1226032
1,3-Dichlorobenzene	U		0.00186	0.00546	1	01/20/2019 14:08	WG1226032
1,4-Dichlorobenzene	U		0.00215	0.00546	1	01/20/2019 14:08	WG1226032
Dichlorodifluoromethane	U	UJ J0	0.000893	0.00273	1	01/20/2019 14:08	WG1226032
1,1-Dichloroethane	U		0.000628	0.00273	1	01/20/2019 14:08	WG1226032
1,2-Dichloroethane	U		0.000518	0.00273	1	01/20/2019 14:08	WG1226032
1,1-Dichloroethene	U		0.000546	0.00273	1	01/20/2019 14:08	WG1226032
cis-1,2-Dichloroethene	0.275		0.000753	0.00273	1	01/20/2019 14:08	WG1226032
trans-1,2-Dichloroethene	U		0.00156	0.00546	1	01/20/2019 14:08	WG1226032
1,2-Dichloropropane	U		0.00139	0.00546	1	01/20/2019 14:08	WG1226032
1,1-Dichloropropene	U		0.000764	0.00273	1	01/20/2019 14:08	WG1226032
1,3-Dichloropropane	U		0.00191	0.00546	1	01/20/2019 14:08	WG1226032
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	01/20/2019 14:08	WG1226032
trans-1,3-Dichloropropene	U		0.00167	0.00546	1	01/20/2019 14:08	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00153	0.00546	1	01/20/2019 14:08	WG1226032
2,2-Dichloropropane	U		0.000866	0.00273	1	01/20/2019 14:08	WG1226032
Di-isopropyl ether	U		0.000382	0.00109	1	01/20/2019 14:08	WG1226032
Ethylbenzene	U		0.000578	0.00273	1	01/20/2019 14:08	WG1226032
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	01/20/2019 14:08	WG1226032
2-Hexanone	U		0.0109	0.0273	1	01/20/2019 14:08	WG1226032
n-Hexane	0.00137	J J	0.00116	0.00546	1	01/20/2019 14:08	WG1226032
Iodomethane	U		0.00660	0.0136	1	01/20/2019 14:08	WG1226032
Isopropylbenzene	U		0.000942	0.00273	1	01/20/2019 14:08	WG1226032
p-Isopropyltoluene	U		0.00254	0.00546	1	01/20/2019 14:08	WG1226032
2-Butanone (MEK)	U		0.0136	0.0273	1	01/20/2019 14:08	WG1226032
Methylene Chloride	U		0.00725	0.0273	1	01/20/2019 14:08	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	01/20/2019 14:08	WG1226032

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	01/20/2019 14:08	WG1226032
Naphthalene	U	UJ J0	0.00341	0.0136	1	01/20/2019 14:08	WG1226032
n-Propylbenzene	U		0.00129	0.00546	1	01/20/2019 14:08	WG1226032
Styrene	U		0.00298	0.0136	1	01/20/2019 14:08	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1	01/20/2019 14:08	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	01/20/2019 14:08	WG1226032
1,1,2-Trichlorotrifluoroethane	U	UJ J0	0.000737	0.00273	1	01/20/2019 14:08	WG1226032
Tetrachloroethene	0.0198		0.000764	0.00273	1	01/22/2019 21:24	WG1227024
Toluene	U		0.00136	0.00546	1	01/20/2019 14:08	WG1226032
1,2,3-Trichlorobenzene	U	UJ J0 J4	0.000682	0.00273	1	01/20/2019 14:08	WG1226032
1,2,4-Trichlorobenzene	U	UJ J0	0.00526	0.0136	1	01/20/2019 14:08	WG1226032
1,1,1-Trichloroethane	U		0.000300	0.00273	1	01/20/2019 14:08	WG1226032
1,1,2-Trichloroethane	U		0.000964	0.00273	1	01/20/2019 14:08	WG1226032
Trichloroethene	0.0156		0.000437	0.00109	1	01/20/2019 14:08	WG1226032
Trichlorofluoromethane	U		0.000546	0.00273	1	01/20/2019 14:08	WG1226032
1,2,3-Trichloropropane	U		0.00557	0.0136	1	01/20/2019 14:08	WG1226032
1,2,4-Trimethylbenzene	U		0.00127	0.00546	1	01/20/2019 14:08	WG1226032
1,2,3-Trimethylbenzene	U		0.00126	0.00546	1	01/20/2019 14:08	WG1226032
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	01/20/2019 14:08	WG1226032
Vinyl acetate	U	UJ J0	0.00384	0.0136	1	01/20/2019 14:08	WG1226032
Vinyl chloride	U	UJ J0	0.000745	0.00273	1	01/20/2019 14:08	WG1226032
Xylenes, Total	U		0.00522	0.00709	1	01/20/2019 14:08	WG1226032
(S) Toluene-d8	*107*			*75.0-131*		*01/20/2019 14:08*	WG1226032
(S) Toluene-d8	*92.9*			*75.0-131*		*01/22/2019 21:24*	WG1227024
(S) Dibromofluoromethane	*97.5*			*65.0-129*		*01/20/2019 14:08*	WG1226032
(S) Dibromofluoromethane	*102*			*65.0-129*		*01/22/2019 21:24*	WG1227024
(S) 4-Bromofluorobenzene	*88.7*			*67.0-138*		*01/20/2019 14:08*	WG1226032
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*01/22/2019 21:24*	WG1227024

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.7		1	01/18/2019 10:31	WG1225034

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0274	U ~~J~~	0.0154	0.0282	1	01/20/2019 14:27	WG1226032
Acrylonitrile	U		0.00214	0.0141	1	01/20/2019 14:27	WG1226032
Benzene	U		0.000451	0.00113	1	01/20/2019 14:27	WG1226032
Bromobenzene	U		0.00118	0.0141	1	01/20/2019 14:27	WG1226032
Bromodichloromethane	U		0.000888	0.00282	1	01/20/2019 14:27	WG1226032
Bromochloromethane	U		0.00127	0.00564	1	01/20/2019 14:27	WG1226032
Bromoform	U		0.00674	0.0282	1	01/20/2019 14:27	WG1226032
Bromomethane	U		0.00417	0.0141	1	01/20/2019 14:27	WG1226032
n-Butylbenzene	U		0.00433	0.0141	1	01/20/2019 14:27	WG1226032
sec-Butylbenzene	U		0.00285	0.0141	1	01/20/2019 14:27	WG1226032
tert-Butylbenzene	U		0.00175	0.00564	1	01/20/2019 14:27	WG1226032
Carbon disulfide	U		0.00458	0.0141	1	01/20/2019 14:27	WG1226032
Carbon tetrachloride	U		0.00122	0.00564	1	01/20/2019 14:27	WG1226032
Chlorobenzene	U		0.000646	0.00282	1	01/20/2019 14:27	WG1226032
Chlorodibromomethane	U		0.000507	0.00282	1	01/20/2019 14:27	WG1226032
Chloroethane	U		0.00122	0.00564	1	01/20/2019 14:27	WG1226032
Chloroform	0.000559	J J	0.000468	0.00282	1	01/20/2019 14:27	WG1226032
Chloromethane	U		0.00157	0.0141	1	01/20/2019 14:27	WG1226032
2-Chlorotoluene	U		0.00104	0.00282	1	01/20/2019 14:27	WG1226032
4-Chlorotoluene	U		0.00127	0.00564	1	01/20/2019 14:27	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00575	0.0282	1	01/20/2019 14:27	WG1226032
1,2-Dibromoethane	U		0.000592	0.00282	1	01/20/2019 14:27	WG1226032
Dibromomethane	U		0.00113	0.00564	1	01/20/2019 14:27	WG1226032
1,2-Dichlorobenzene	U		0.00163	0.00564	1	01/20/2019 14:27	WG1226032
1,3-Dichlorobenzene	U		0.00192	0.00564	1	01/20/2019 14:27	WG1226032
1,4-Dichlorobenzene	U		0.00222	0.00564	1	01/20/2019 14:27	WG1226032
Dichlorodifluoromethane	U	UJ J0	0.000922	0.00282	1	01/20/2019 14:27	WG1226032
1,1-Dichloroethane	U		0.000648	0.00282	1	01/20/2019 14:27	WG1226032
1,2-Dichloroethane	U		0.000535	0.00282	1	01/20/2019 14:27	WG1226032
1,1-Dichloroethene	U		0.000564	0.00282	1	01/20/2019 14:27	WG1226032
cis-1,2-Dichloroethene	0.105		0.000778	0.00282	1	01/20/2019 14:27	WG1226032
trans-1,2-Dichloroethene	0.00185	J J	0.00161	0.00564	1	01/20/2019 14:27	WG1226032
1,2-Dichloropropane	U		0.00143	0.00564	1	01/20/2019 14:27	WG1226032
1,1-Dichloropropene	U		0.000789	0.00282	1	01/20/2019 14:27	WG1226032
1,3-Dichloropropane	U		0.00197	0.00564	1	01/20/2019 14:27	WG1226032
cis-1,3-Dichloropropene	U		0.000764	0.00282	1	01/20/2019 14:27	WG1226032
trans-1,3-Dichloropropene	U		0.00172	0.00564	1	01/20/2019 14:27	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00158	0.00564	1	01/20/2019 14:27	WG1226032
2,2-Dichloropropane	U		0.000894	0.00282	1	01/20/2019 14:27	WG1226032
Di-isopropyl ether	U		0.000394	0.00113	1	01/20/2019 14:27	WG1226032
Ethylbenzene	U		0.000597	0.00282	1	01/20/2019 14:27	WG1226032
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	01/20/2019 14:27	WG1226032
2-Hexanone	U		0.0113	0.0282	1	01/20/2019 14:27	WG1226032
n-Hexane	0.00158	J J	0.00119	0.00564	1	01/20/2019 14:27	WG1226032
Iodomethane	U		0.00682	0.0141	1	01/20/2019 14:27	WG1226032
Isopropylbenzene	U		0.000973	0.00282	1	01/20/2019 14:27	WG1226032
p-Isopropyltoluene	U		0.00263	0.00564	1	01/20/2019 14:27	WG1226032
2-Butanone (MEK)	U		0.0141	0.0282	1	01/20/2019 14:27	WG1226032
Methylene Chloride	U		0.00748	0.0282	1	01/20/2019 14:27	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	01/20/2019 14:27	WG1226032

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00113	1	01/20/2019 14:27	WG1226032
Naphthalene	U	UJ J0	0.00352	0.0141	1	01/20/2019 14:27	WG1226032
n-Propylbenzene	U		0.00133	0.00564	1	01/20/2019 14:27	WG1226032
Styrene	U		0.00308	0.0141	1	01/20/2019 14:27	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000564	0.00282	1	01/20/2019 14:27	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000440	0.00282	1	01/20/2019 14:27	WG1226032
1,1,2-Trichlorotrifluoroethane	U	UJ J0	0.000761	0.00282	1	01/20/2019 14:27	WG1226032
Tetrachloroethene	1.13		0.000789	0.00282	1	01/20/2019 14:27	WG1226032
Toluene	U		0.00141	0.00564	1	01/20/2019 14:27	WG1226032
1,2,3-Trichlorobenzene	U	UJ J0 J4	0.000704	0.00282	1	01/20/2019 14:27	WG1226032
1,2,4-Trichlorobenzene	U	UJ J0	0.00543	0.0141	1	01/20/2019 14:27	WG1226032
1,1,1-Trichloroethane	U		0.000310	0.00282	1	01/20/2019 14:27	WG1226032
1,1,2-Trichloroethane	U		0.000995	0.00282	1	01/20/2019 14:27	WG1226032
Trichloroethene	0.273		0.000451	0.00113	1	01/20/2019 14:27	WG1226032
Trichlorofluoromethane	U		0.000564	0.00282	1	01/20/2019 14:27	WG1226032
1,2,3-Trichloropropane	U		0.00575	0.0141	1	01/20/2019 14:27	WG1226032
1,2,4-Trimethylbenzene	U		0.00131	0.00564	1	01/20/2019 14:27	WG1226032
1,2,3-Trimethylbenzene	U		0.00130	0.00564	1	01/20/2019 14:27	WG1226032
1,3,5-Trimethylbenzene	U		0.00122	0.00564	1	01/20/2019 14:27	WG1226032
Vinyl acetate	U	UJ J0	0.00397	0.0141	1	01/20/2019 14:27	WG1226032
Vinyl chloride	U	UJ J0	0.000770	0.00282	1	01/20/2019 14:27	WG1226032
Xylenes, Total	U		0.00539	0.00733	1	01/20/2019 14:27	WG1226032
(S) Toluene-d8	*106*			*75.0-131*		*01/20/2019 14:27*	WG1226032
(S) Dibromofluoromethane	*95.9*			*65.0-129*		*01/20/2019 14:27*	WG1226032
(S) 4-Bromofluorobenzene	*97.1*			*67.0-138*		*01/20/2019 14:27*	WG1226032

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	01/18/2019 10:31	WG1225034

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0274	U ~~J~~	0.0154	0.0281	1	01/20/2019 14:47	WG1226032
Acrylonitrile	U		0.00214	0.0141	1	01/20/2019 14:47	WG1226032
Benzene	U		0.000450	0.00112	1	01/20/2019 14:47	WG1226032
Bromobenzene	U		0.00118	0.0141	1	01/20/2019 14:47	WG1226032
Bromodichloromethane	U		0.000886	0.00281	1	01/20/2019 14:47	WG1226032
Bromochloromethane	U		0.00127	0.00562	1	01/20/2019 14:47	WG1226032
Bromoform	U		0.00673	0.0281	1	01/20/2019 14:47	WG1226032
Bromomethane	U		0.00416	0.0141	1	01/20/2019 14:47	WG1226032
n-Butylbenzene	U		0.00432	0.0141	1	01/20/2019 14:47	WG1226032
sec-Butylbenzene	U		0.00285	0.0141	1	01/20/2019 14:47	WG1226032
tert-Butylbenzene	U		0.00174	0.00562	1	01/20/2019 14:47	WG1226032
Carbon disulfide	U		0.00457	0.0141	1	01/20/2019 14:47	WG1226032
Carbon tetrachloride	U		0.00121	0.00562	1	01/20/2019 14:47	WG1226032
Chlorobenzene	U		0.000645	0.00281	1	01/20/2019 14:47	WG1226032
Chlorodibromomethane	U		0.000506	0.00281	1	01/20/2019 14:47	WG1226032
Chloroethane	U		0.00121	0.00562	1	01/20/2019 14:47	WG1226032
Chloroform	0.000594	J J	0.000467	0.00281	1	01/20/2019 14:47	WG1226032
Chloromethane	U		0.00156	0.0141	1	01/20/2019 14:47	WG1226032
2-Chlorotoluene	U		0.00103	0.00281	1	01/20/2019 14:47	WG1226032
4-Chlorotoluene	U		0.00127	0.00562	1	01/20/2019 14:47	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00574	0.0281	1	01/20/2019 14:47	WG1226032
1,2-Dibromoethane	U		0.000591	0.00281	1	01/20/2019 14:47	WG1226032
Dibromomethane	U		0.00112	0.00562	1	01/20/2019 14:47	WG1226032
1,2-Dichlorobenzene	U		0.00163	0.00562	1	01/20/2019 14:47	WG1226032
1,3-Dichlorobenzene	U		0.00191	0.00562	1	01/20/2019 14:47	WG1226032
1,4-Dichlorobenzene	U		0.00222	0.00562	1	01/20/2019 14:47	WG1226032
Dichlorodifluoromethane	U	UJ J0	0.000920	0.00281	1	01/20/2019 14:47	WG1226032
1,1-Dichloroethane	U		0.000647	0.00281	1	01/20/2019 14:47	WG1226032
1,2-Dichloroethane	U		0.000534	0.00281	1	01/20/2019 14:47	WG1226032
1,1-Dichloroethene	U		0.000562	0.00281	1	01/20/2019 14:47	WG1226032
cis-1,2-Dichloroethene	0.130		0.000776	0.00281	1	01/20/2019 14:47	WG1226032
trans-1,2-Dichloroethene	0.00216	J J	0.00161	0.00562	1	01/20/2019 14:47	WG1226032
1,2-Dichloropropane	U		0.00143	0.00562	1	01/20/2019 14:47	WG1226032
1,1-Dichloropropene	U		0.000787	0.00281	1	01/20/2019 14:47	WG1226032
1,3-Dichloropropane	U		0.00197	0.00562	1	01/20/2019 14:47	WG1226032
cis-1,3-Dichloropropene	U		0.000763	0.00281	1	01/20/2019 14:47	WG1226032
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	01/20/2019 14:47	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	01/20/2019 14:47	WG1226032
2,2-Dichloropropane	U		0.000892	0.00281	1	01/20/2019 14:47	WG1226032
Di-isopropyl ether	U		0.000394	0.00112	1	01/20/2019 14:47	WG1226032
Ethylbenzene	U		0.000596	0.00281	1	01/20/2019 14:47	WG1226032
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	01/20/2019 14:47	WG1226032
2-Hexanone	U		0.0112	0.0281	1	01/20/2019 14:47	WG1226032
n-Hexane	0.00200	J J	0.00119	0.00562	1	01/20/2019 14:47	WG1226032
Iodomethane	U		0.00681	0.0141	1	01/20/2019 14:47	WG1226032
Isopropylbenzene	U		0.000971	0.00281	1	01/20/2019 14:47	WG1226032
p-Isopropyltoluene	U		0.00262	0.00562	1	01/20/2019 14:47	WG1226032
2-Butanone (MEK)	U		0.0141	0.0281	1	01/20/2019 14:47	WG1226032
Methylene Chloride	U		0.00747	0.0281	1	01/20/2019 14:47	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	01/20/2019 14:47	WG1226032

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00112	1	01/20/2019 14:47	WG1226032
Naphthalene	U	UJ J0	0.00351	0.0141	1	01/20/2019 14:47	WG1226032
n-Propylbenzene	U		0.00133	0.00562	1	01/20/2019 14:47	WG1226032
Styrene	U		0.00307	0.0141	1	01/20/2019 14:47	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	01/20/2019 14:47	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000439	0.00281	1	01/20/2019 14:47	WG1226032
1,1,2-Trichlorotrifluoroethane	U	UJ J0	0.000759	0.00281	1	01/20/2019 14:47	WG1226032
Tetrachloroethene	1.43		0.000787	0.00281	1	01/20/2019 14:47	WG1226032
Toluene	U		0.00141	0.00562	1	01/20/2019 14:47	WG1226032
1,2,3-Trichlorobenzene	U	UJ J0 J4	0.000703	0.00281	1	01/20/2019 14:47	WG1226032
1,2,4-Trichlorobenzene	U	UJ J0	0.00542	0.0141	1	01/20/2019 14:47	WG1226032
1,1,1-Trichloroethane	U		0.000309	0.00281	1	01/20/2019 14:47	WG1226032
1,1,2-Trichloroethane	U		0.000993	0.00281	1	01/20/2019 14:47	WG1226032
Trichloroethene	0.332		0.000450	0.00112	1	01/20/2019 14:47	WG1226032
Trichlorofluoromethane	U		0.000562	0.00281	1	01/20/2019 14:47	WG1226032
1,2,3-Trichloropropane	U		0.00574	0.0141	1	01/20/2019 14:47	WG1226032
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	01/20/2019 14:47	WG1226032
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	01/20/2019 14:47	WG1226032
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	01/20/2019 14:47	WG1226032
Vinyl acetate	U	UJ J0	0.00396	0.0141	1	01/20/2019 14:47	WG1226032
Vinyl chloride	U	UJ J0	0.000768	0.00281	1	01/20/2019 14:47	WG1226032
Xylenes, Total	U		0.00538	0.00731	1	01/20/2019 14:47	WG1226032
(S) Toluene-d8	*108*			*75.0-131*		*01/20/2019 14:47*	WG1226032
(S) Dibromofluoromethane	*96.0*			*65.0-129*		*01/20/2019 14:47*	WG1226032
(S) 4-Bromofluorobenzene	*89.8*			*67.0-138*		*01/20/2019 14:47*	WG1226032

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	91.5		1	01/18/2019 10:31	WG1225034

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0426		0.0182	0.0333	1.22	01/20/2019 15:07	WG1226032
Acrylonitrile	U		0.00254	0.0167	1.22	01/20/2019 15:07	WG1226032
Benzene	U		0.000533	0.00133	1.22	01/20/2019 15:07	WG1226032
Bromobenzene	U		0.00140	0.0167	1.22	01/20/2019 15:07	WG1226032
Bromodichloromethane	U		0.00105	0.00333	1.22	01/20/2019 15:07	WG1226032
Bromochloromethane	U		0.00151	0.00667	1.22	01/20/2019 15:07	WG1226032
Bromoform	U		0.00798	0.0333	1.22	01/20/2019 15:07	WG1226032
Bromomethane	U		0.00493	0.0167	1.22	01/20/2019 15:07	WG1226032
n-Butylbenzene	U		0.00511	0.0167	1.22	01/20/2019 15:07	WG1226032
sec-Butylbenzene	U		0.00338	0.0167	1.22	01/20/2019 15:07	WG1226032
tert-Butylbenzene	U		0.00207	0.00667	1.22	01/20/2019 15:07	WG1226032
Carbon disulfide	U		0.00541	0.0167	1.22	01/20/2019 15:07	WG1226032
Carbon tetrachloride	U		0.00144	0.00667	1.22	01/20/2019 15:07	WG1226032
Chlorobenzene	U		0.000764	0.00333	1.22	01/20/2019 15:07	WG1226032
Chlorodibromomethane	U		0.000600	0.00333	1.22	01/20/2019 15:07	WG1226032
Chloroethane	U		0.00144	0.00667	1.22	01/20/2019 15:07	WG1226032
Chloroform	0.000766	J J	0.000553	0.00333	1.22	01/20/2019 15:07	WG1226032
Chloromethane	U		0.00186	0.0167	1.22	01/20/2019 15:07	WG1226032
2-Chlorotoluene	U		0.00122	0.00333	1.22	01/20/2019 15:07	WG1226032
4-Chlorotoluene	U		0.00151	0.00667	1.22	01/20/2019 15:07	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00680	0.0333	1.22	01/20/2019 15:07	WG1226032
1,2-Dibromoethane	U		0.000699	0.00333	1.22	01/20/2019 15:07	WG1226032
Dibromomethane	U		0.00133	0.00667	1.22	01/20/2019 15:07	WG1226032
1,2-Dichlorobenzene	U		0.00193	0.00667	1.22	01/20/2019 15:07	WG1226032
1,3-Dichlorobenzene	U		0.00226	0.00667	1.22	01/20/2019 15:07	WG1226032
1,4-Dichlorobenzene	U		0.00262	0.00667	1.22	01/20/2019 15:07	WG1226032
Dichlorodifluoromethane	U	UJ J0	0.00109	0.00333	1.22	01/20/2019 15:07	WG1226032
1,1-Dichloroethane	U		0.000767	0.00333	1.22	01/20/2019 15:07	WG1226032
1,2-Dichloroethane	U		0.000634	0.00333	1.22	01/20/2019 15:07	WG1226032
1,1-Dichloroethene	U		0.000667	0.00333	1.22	01/20/2019 15:07	WG1226032
cis-1,2-Dichloroethene	0.0512		0.000920	0.00333	1.22	01/20/2019 15:07	WG1226032
trans-1,2-Dichloroethene	U		0.00190	0.00667	1.22	01/20/2019 15:07	WG1226032
1,2-Dichloropropane	U		0.00169	0.00667	1.22	01/20/2019 15:07	WG1226032
1,1-Dichloropropene	U		0.000933	0.00333	1.22	01/20/2019 15:07	WG1226032
1,3-Dichloropropane	U		0.00234	0.00667	1.22	01/20/2019 15:07	WG1226032
cis-1,3-Dichloropropene	U		0.000904	0.00333	1.22	01/20/2019 15:07	WG1226032
trans-1,3-Dichloropropene	U		0.00204	0.00667	1.22	01/20/2019 15:07	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00187	0.00667	1.22	01/20/2019 15:07	WG1226032
2,2-Dichloropropane	U		0.00106	0.00333	1.22	01/20/2019 15:07	WG1226032
Di-isopropyl ether	U		0.000467	0.00133	1.22	01/20/2019 15:07	WG1226032
Ethylbenzene	U		0.000707	0.00333	1.22	01/20/2019 15:07	WG1226032
Hexachloro-1,3-butadiene	U		0.0169	0.0333	1.22	01/20/2019 15:07	WG1226032
2-Hexanone	U		0.0133	0.0333	1.22	01/20/2019 15:07	WG1226032
n-Hexane	0.00495	J J	0.00141	0.00667	1.22	01/20/2019 15:07	WG1226032
Iodomethane	U		0.00806	0.0167	1.22	01/20/2019 15:07	WG1226032
Isopropylbenzene	U		0.00115	0.00333	1.22	01/20/2019 15:07	WG1226032
p-Isopropyltoluene	U		0.00310	0.00667	1.22	01/20/2019 15:07	WG1226032
2-Butanone (MEK)	U		0.0166	0.0333	1.22	01/20/2019 15:07	WG1226032
Methylene Chloride	U		0.00885	0.0333	1.22	01/20/2019 15:07	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0133	0.0333	1.22	01/20/2019 15:07	WG1226032

JC 3/4/19

B11D11-50

Collected date/time: 01/15/19 11:18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000393	0.00133	1.22	01/20/2019 15:07	WG1226032
Naphthalene	U	UJ	J0	0.00416	0.0167	1.22	01/20/2019 15:07	WG1226032
n-Propylbenzene	U			0.00157	0.00667	1.22	01/20/2019 15:07	WG1226032
Styrene	U			0.00364	0.0167	1.22	01/20/2019 15:07	WG1226032
1,1,1,2-Tetrachloroethane	U			0.000667	0.00333	1.22	01/20/2019 15:07	WG1226032
1,1,2,2-Tetrachloroethane	U			0.000520	0.00333	1.22	01/20/2019 15:07	WG1226032
1,1,2-Trichlorotrifluoroethane	U	UJ	J0	0.000900	0.00333	1.22	01/20/2019 15:07	WG1226032
Tetrachloroethene	0.0119			0.000933	0.00333	1.22	01/20/2019 15:07	WG1226032
Toluene	0.00238	J	J	0.00166	0.00667	1.22	01/20/2019 15:07	WG1226032
1,2,3-Trichlorobenzene	U	UJ	J0 J4	0.000833	0.00333	1.22	01/20/2019 15:07	WG1226032
1,2,4-Trichlorobenzene	U	UJ	J0	0.00643	0.0167	1.22	01/20/2019 15:07	WG1226032
1,1,1-Trichloroethane	U			0.000367	0.00333	1.22	01/20/2019 15:07	WG1226032
1,1,2-Trichloroethane	U			0.00118	0.00333	1.22	01/20/2019 15:07	WG1226032
Trichloroethene	0.00177			0.000533	0.00133	1.22	01/20/2019 15:07	WG1226032
Trichlorofluoromethane	U			0.000667	0.00333	1.22	01/20/2019 15:07	WG1226032
1,2,3-Trichloropropane	U			0.00680	0.0167	1.22	01/20/2019 15:07	WG1226032
1,2,4-Trimethylbenzene	0.00192	J	J	0.00155	0.00667	1.22	01/20/2019 15:07	WG1226032
1,2,3-Trimethylbenzene	U			0.00153	0.00667	1.22	01/20/2019 15:07	WG1226032
1,3,5-Trimethylbenzene	U			0.00144	0.00667	1.22	01/20/2019 15:07	WG1226032
Vinyl acetate	U	UJ	J0	0.00469	0.0167	1.22	01/20/2019 15:07	WG1226032
Vinyl chloride	U	UJ	J0	0.000910	0.00333	1.22	01/20/2019 15:07	WG1226032
Xylenes, Total	U			0.00637	0.00867	1.22	01/20/2019 15:07	WG1226032
(S) Toluene-d8	*107*				*75.0-131*		*01/20/2019 15:07*	WG1226032
(S) Dibromofluoromethane	*97.2*				*65.0-129*		*01/20/2019 15:07*	WG1226032
(S) 4-Bromofluorobenzene	*86.2*				*67.0-138*		*01/20/2019 15:07*	WG1226032

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

S1-8843-011519
Collected date/time: 01/15/19 11:20

SAMPLE RESULTS - 11

L1061673

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.2		1	01/17/2019 13:00	WG1224621

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0154	0.0280	1	01/17/2019 20:57	WG1224822
Acrylonitrile	U		0.00213	0.0140	1	01/17/2019 20:57	WG1224822
Benzene	U		0.000449	0.00112	1	01/17/2019 20:57	WG1224822
Bromobenzene	U		0.00118	0.0140	1	01/17/2019 20:57	WG1224822
Bromodichloromethane	U		0.000884	0.00280	1	01/17/2019 20:57	WG1224822
Bromochloromethane	U		0.00127	0.00561	1	01/17/2019 20:57	WG1224822
Bromoform	U	UJ J0	0.00671	0.0280	1	01/17/2019 20:57	WG1224822
Bromomethane	U		0.00415	0.0140	1	01/17/2019 20:57	WG1224822
n-Butylbenzene	U		0.00431	0.0140	1	01/17/2019 20:57	WG1224822
sec-Butylbenzene	U		0.00284	0.0140	1	01/17/2019 20:57	WG1224822
tert-Butylbenzene	U		0.00174	0.00561	1	01/17/2019 20:57	WG1224822
Carbon disulfide	U		0.00455	0.0140	1	01/17/2019 20:57	WG1224822
Carbon tetrachloride	U		0.00121	0.00561	1	01/17/2019 20:57	WG1224822
Chlorobenzene	U		0.000642	0.00280	1	01/17/2019 20:57	WG1224822
Chlorodibromomethane	U		0.000505	0.00280	1	01/17/2019 20:57	WG1224822
Chloroethane	U		0.00121	0.00561	1	01/17/2019 20:57	WG1224822
Chloroform	U		0.000465	0.00280	1	01/17/2019 20:57	WG1224822
Chloromethane	U		0.00156	0.0140	1	01/17/2019 20:57	WG1224822
2-Chlorotoluene	U		0.00103	0.00280	1	01/17/2019 20:57	WG1224822
4-Chlorotoluene	U		0.00127	0.00561	1	01/17/2019 20:57	WG1224822
1,2-Dibromo-3-Chloropropane	U		0.00572	0.0280	1	01/18/2019 12:22	WG1225374
1,2-Dibromoethane	U		0.000589	0.00280	1	01/17/2019 20:57	WG1224822
Dibromomethane	U		0.00112	0.00561	1	01/17/2019 20:57	WG1224822
1,2-Dichlorobenzene	U		0.00163	0.00561	1	01/17/2019 20:57	WG1224822
1,3-Dichlorobenzene	U		0.00191	0.00561	1	01/17/2019 20:57	WG1224822
1,4-Dichlorobenzene	U		0.00221	0.00561	1	01/17/2019 20:57	WG1224822
Dichlorodifluoromethane	U	UJ J0	0.000917	0.00280	1	01/18/2019 12:22	WG1225374
1,1-Dichloroethane	U		0.000645	0.00280	1	01/17/2019 20:57	WG1224822
1,2-Dichloroethane	U		0.000533	0.00280	1	01/17/2019 20:57	WG1224822
1,1-Dichloroethene	0.000708	J J	0.000561	0.00280	1	01/18/2019 12:22	WG1225374
cis-1,2-Dichloroethene	0.263		0.000774	0.00280	1	01/18/2019 12:22	WG1225374
trans-1,2-Dichloroethene	U		0.00160	0.00561	1	01/17/2019 20:57	WG1224822
1,2-Dichloropropane	U		0.00142	0.00561	1	01/17/2019 20:57	WG1224822
1,1-Dichloropropene	U		0.000785	0.00280	1	01/17/2019 20:57	WG1224822
1,3-Dichloropropane	U		0.00196	0.00561	1	01/17/2019 20:57	WG1224822
cis-1,3-Dichloropropene	U		0.000760	0.00280	1	01/17/2019 20:57	WG1224822
trans-1,3-Dichloropropene	U		0.00172	0.00561	1	01/17/2019 20:57	WG1224822
trans-1,4-Dichloro-2-butene	U		0.00157	0.00561	1	01/18/2019 12:22	WG1225374
2,2-Dichloropropane	U		0.000889	0.00280	1	01/17/2019 20:57	WG1224822
Di-isopropyl ether	U		0.000392	0.00112	1	01/18/2019 12:22	WG1225374
Ethylbenzene	U		0.000594	0.00280	1	01/17/2019 20:57	WG1224822
Hexachloro-1,3-butadiene	U	UJ J0	0.0142	0.0280	1	01/17/2019 20:57	WG1224822
2-Hexanone	U		0.0112	0.0280	1	01/17/2019 20:57	WG1224822
n-Hexane	0.00769		0.00119	0.00561	1	01/17/2019 20:57	WG1224822
Iodomethane	U		0.00678	0.0140	1	01/17/2019 20:57	WG1224822
Isopropylbenzene	U		0.000968	0.00280	1	01/17/2019 20:57	WG1224822
p-Isopropyltoluene	U		0.00261	0.00561	1	01/17/2019 20:57	WG1224822
2-Butanone (MEK)	U		0.0140	0.0280	1	01/17/2019 20:57	WG1224822
Methylene Chloride	U		0.00745	0.0280	1	01/17/2019 20:57	WG1224822
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	01/17/2019 20:57	WG1224822

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U			0.000331	0.00112	1	01/17/2019 20:57	WG1224822
Naphthalene	U	UJ	J0	0.00350	0.0140	1	01/18/2019 12:22	WG1225374
n-Propylbenzene	U			0.00132	0.00561	1	01/17/2019 20:57	WG1224822
Styrene	U			0.00306	0.0140	1	01/17/2019 20:57	WG1224822
1,1,1,2-Tetrachloroethane	U			0.000561	0.00280	1	01/17/2019 20:57	WG1224822
1,1,2,2-Tetrachloroethane	U			0.000437	0.00280	1	01/18/2019 12:22	WG1225374
1,1,2-Trichlorotrifluoroethane	U			0.000757	0.00280	1	01/17/2019 20:57	WG1224822
Tetrachloroethene	0.517			0.000785	0.00280	1	01/17/2019 20:57	WG1224822
Toluene	0.00183	J	J	0.00140	0.00561	1	01/17/2019 20:57	WG1224822
1,2,3-Trichlorobenzene	U	UJ	J0	0.000701	0.00280	1	01/18/2019 12:22	WG1225374
1,2,4-Trichlorobenzene	U	UJ	J0	0.00540	0.0140	1	01/17/2019 20:57	WG1224822
1,1,1-Trichloroethane	U			0.000308	0.00280	1	01/17/2019 20:57	WG1224822
1,1,2-Trichloroethane	U			0.000990	0.00280	1	01/17/2019 20:57	WG1224822
Trichloroethene	0.116			0.000449	0.00112	1	01/17/2019 20:57	WG1224822
Trichlorofluoromethane	U			0.000561	0.00280	1	01/17/2019 20:57	WG1224822
1,2,3-Trichloropropane	U			0.00572	0.0140	1	01/17/2019 20:57	WG1224822
1,2,4-Trimethylbenzene	U			0.00130	0.00561	1	01/17/2019 20:57	WG1224822
1,2,3-Trimethylbenzene	U	UJ	J0 J4	0.00129	0.00561	1	01/17/2019 20:57	WG1224822
1,3,5-Trimethylbenzene	U			0.00121	0.00561	1	01/17/2019 20:57	WG1224822
Vinyl acetate	U			0.00395	0.0140	1	01/17/2019 20:57	WG1224822
Vinyl chloride	0.00904			0.000766	0.00280	1	01/17/2019 20:57	WG1224822
Xylenes, Total	U			0.00536	0.00729	1	01/17/2019 20:57	WG1224822
(S) Toluene-d8	*108*				*75.0-131*		*01/17/2019 20:57*	WG1224822
(S) Toluene-d8	*105*				*75.0-131*		*01/18/2019 12:22*	WG1225374
(S) Dibromofluoromethane	*85.1*				*65.0-129*		*01/17/2019 20:57*	WG1224822
(S) Dibromofluoromethane	*94.7*				*65.0-129*		*01/18/2019 12:22*	WG1225374
(S) 4-Bromofluorobenzene	*102*				*67.0-138*		*01/17/2019 20:57*	WG1224822
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*01/18/2019 12:22*	WG1225374

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.5		1	01/17/2019 13:00	WG1224621

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0286	1	01/17/2019 21:20	WG1224822
Acrylonitrile	U		0.00217	0.0143	1	01/17/2019 21:20	WG1224822
Benzene	U		0.000457	0.00114	1	01/17/2019 21:20	WG1224822
Bromobenzene	U		0.00120	0.0143	1	01/17/2019 21:20	WG1224822
Bromodichloromethane	U		0.000901	0.00286	1	01/17/2019 21:20	WG1224822
Bromochloromethane	U		0.00129	0.00571	1	01/17/2019 21:20	WG1224822
Bromoform	U	UJ J0	0.00683	0.0286	1	01/17/2019 21:20	WG1224822
Bromomethane	U		0.00423	0.0143	1	01/17/2019 21:20	WG1224822
n-Butylbenzene	U		0.00439	0.0143	1	01/17/2019 21:20	WG1224822
sec-Butylbenzene	U		0.00289	0.0143	1	01/17/2019 21:20	WG1224822
tert-Butylbenzene	U		0.00177	0.00571	1	01/17/2019 21:20	WG1224822
Carbon disulfide	U		0.00464	0.0143	1	01/17/2019 21:20	WG1224822
Carbon tetrachloride	U		0.00123	0.00571	1	01/17/2019 21:20	WG1224822
Chlorobenzene	U		0.000655	0.00286	1	01/17/2019 21:20	WG1224822
Chlorodibromomethane	U		0.000514	0.00286	1	01/17/2019 21:20	WG1224822
Chloroethane	U		0.00123	0.00571	1	01/17/2019 21:20	WG1224822
Chloroform	U		0.000474	0.00286	1	01/17/2019 21:20	WG1224822
Chloromethane	U		0.00159	0.0143	1	01/17/2019 21:20	WG1224822
2-Chlorotoluene	U		0.00105	0.00286	1	01/17/2019 21:20	WG1224822
4-Chlorotoluene	U		0.00129	0.00571	1	01/17/2019 21:20	WG1224822
1,2-Dibromo-3-Chloropropane	U		0.00583	0.0286	1	01/18/2019 12:42	WG1225374
1,2-Dibromoethane	U		0.000600	0.00286	1	01/17/2019 21:20	WG1224822
Dibromomethane	U		0.00114	0.00571	1	01/17/2019 21:20	WG1224822
1,2-Dichlorobenzene	U		0.00166	0.00571	1	01/17/2019 21:20	WG1224822
1,3-Dichlorobenzene	U		0.00194	0.00571	1	01/17/2019 21:20	WG1224822
1,4-Dichlorobenzene	U		0.00225	0.00571	1	01/17/2019 21:20	WG1224822
Dichlorodifluoromethane	U	UJ J0	0.000935	0.00286	1	01/18/2019 12:42	WG1225374
1,1-Dichloroethane	U		0.000657	0.00286	1	01/17/2019 21:20	WG1224822
1,2-Dichloroethane	U		0.000543	0.00286	1	01/17/2019 21:20	WG1224822
1,1-Dichloroethene	0.000897	J J	0.000571	0.00286	1	01/18/2019 12:42	WG1225374
cis-1,2-Dichloroethene	0.282		0.000789	0.00286	1	01/18/2019 12:42	WG1225374
trans-1,2-Dichloroethene	0.00167	J J	0.00163	0.00571	1	01/17/2019 21:20	WG1224822
1,2-Dichloropropane	U		0.00145	0.00571	1	01/17/2019 21:20	WG1224822
1,1-Dichloropropene	U		0.000800	0.00286	1	01/17/2019 21:20	WG1224822
1,3-Dichloropropane	U		0.00200	0.00571	1	01/17/2019 21:20	WG1224822
cis-1,3-Dichloropropene	U		0.000775	0.00286	1	01/17/2019 21:20	WG1224822
trans-1,3-Dichloropropene	U		0.00175	0.00571	1	01/17/2019 21:20	WG1224822
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	01/18/2019 12:42	WG1225374
2,2-Dichloropropane	U		0.000906	0.00286	1	01/17/2019 21:20	WG1224822
Di-isopropyl ether	U		0.000400	0.00114	1	01/18/2019 12:42	WG1225374
Ethylbenzene	U		0.000606	0.00286	1	01/17/2019 21:20	WG1224822
Hexachloro-1,3-butadiene	U	UJ J0	0.0145	0.0286	1	01/17/2019 21:20	WG1224822
2-Hexanone	U		0.0114	0.0286	1	01/17/2019 21:20	WG1224822
n-Hexane	U		0.00121	0.00571	1	01/17/2019 21:20	WG1224822
Iodomethane	U		0.00691	0.0143	1	01/17/2019 21:20	WG1224822
Isopropylbenzene	U		0.000986	0.00286	1	01/17/2019 21:20	WG1224822
p-Isopropyltoluene	U		0.00266	0.00571	1	01/17/2019 21:20	WG1224822
2-Butanone (MEK)	U		0.0143	0.0286	1	01/17/2019 21:20	WG1224822
Methylene Chloride	U		0.00759	0.0286	1	01/17/2019 21:20	WG1224822
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	01/17/2019 21:20	WG1224822

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000337	0.00114	1	01/17/2019 21:20	WG1224822
Naphthalene	U	UJ	J0	0.00357	0.0143	1	01/18/2019 12:42	WG1225374
n-Propylbenzene	U			0.00135	0.00571	1	01/17/2019 21:20	WG1224822
Styrene	U			0.00312	0.0143	1	01/17/2019 21:20	WG1224822
1,1,1,2-Tetrachloroethane	U			0.000571	0.00286	1	01/17/2019 21:20	WG1224822
1,1,2,2-Tetrachloroethane	U			0.000446	0.00286	1	01/18/2019 12:42	WG1225374
1,1,2-Trichlorotrifluoroethane	U			0.000771	0.00286	1	01/17/2019 21:20	WG1224822
Tetrachloroethene	0.515			0.000800	0.00286	1	01/17/2019 21:20	WG1224822
Toluene	0.00162	J	J	0.00143	0.00571	1	01/17/2019 21:20	WG1224822
1,2,3-Trichlorobenzene	U	UJ	J0	0.000714	0.00286	1	01/18/2019 12:42	WG1225374
1,2,4-Trichlorobenzene	U	UJ	J0	0.00551	0.0143	1	01/17/2019 21:20	WG1224822
1,1,1-Trichloroethane	U			0.000314	0.00286	1	01/17/2019 21:20	WG1224822
1,1,2-Trichloroethane	U			0.00101	0.00286	1	01/17/2019 21:20	WG1224822
Trichloroethene	0.0815			0.000457	0.00114	1	01/17/2019 21:20	WG1224822
Trichlorofluoromethane	U			0.000571	0.00286	1	01/17/2019 21:20	WG1224822
1,2,3-Trichloropropane	U			0.00583	0.0143	1	01/17/2019 21:20	WG1224822
1,2,4-Trimethylbenzene	U			0.00133	0.00571	1	01/17/2019 21:20	WG1224822
1,2,3-Trimethylbenzene	U	UJ	J0 J4	0.00131	0.00571	1	01/17/2019 21:20	WG1224822
1,3,5-Trimethylbenzene	U			0.00123	0.00571	1	01/17/2019 21:20	WG1224822
Vinyl acetate	U			0.00402	0.0143	1	01/17/2019 21:20	WG1224822
Vinyl chloride	0.00844			0.000781	0.00286	1	01/17/2019 21:20	WG1224822
Xylenes, Total	U			0.00546	0.00743	1	01/17/2019 21:20	WG1224822
(S) Toluene-d8	*104*				*75.0-131*		*01/17/2019 21:20*	WG1224822
(S) Toluene-d8	*105*				*75.0-131*		*01/18/2019 12:42*	WG1225374
(S) Dibromofluoromethane	*86.1*				*65.0-129*		*01/17/2019 21:20*	WG1224822
(S) Dibromofluoromethane	*95.4*				*65.0-129*		*01/18/2019 12:42*	WG1225374
(S) 4-Bromofluorobenzene	*99.3*				*67.0-138*		*01/17/2019 21:20*	WG1224822
(S) 4-Bromofluorobenzene	*96.2*				*67.0-138*		*01/18/2019 12:42*	WG1225374

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	8.79	J	1.05	25.0	1	01/17/2019 21:57	WG1225168
Acrylonitrile	4.83	J	0.873	5.00	1	01/17/2019 21:57	WG1225168
Benzene	U		0.0896	0.500	1	01/17/2019 21:57	WG1225168
Bromobenzene	U		0.133	0.500	1	01/17/2019 21:57	WG1225168
Bromodichloromethane	U		0.0800	0.500	1	01/17/2019 21:57	WG1225168
Bromochloromethane	U		0.145	0.500	1	01/17/2019 21:57	WG1225168
Bromoform	U		0.186	0.500	1	01/17/2019 21:57	WG1225168
Bromomethane	U		0.157	2.50	1	01/17/2019 21:57	WG1225168
n-Butylbenzene	U		0.143	0.500	1	01/17/2019 21:57	WG1225168
sec-Butylbenzene	U		0.134	0.500	1	01/17/2019 21:57	WG1225168
tert-Butylbenzene	U		0.183	0.500	1	01/17/2019 21:57	WG1225168
Carbon disulfide	0.139	J	0.101	0.500	1	01/17/2019 21:57	WG1225168
Carbon tetrachloride	U		0.159	0.500	1	01/17/2019 21:57	WG1225168
Chlorobenzene	U		0.140	0.500	1	01/17/2019 21:57	WG1225168
Chlorodibromomethane	U		0.128	0.500	1	01/17/2019 21:57	WG1225168
Chloroethane	U		0.141	2.50	1	01/17/2019 21:57	WG1225168
Chloroform	U		0.0860	0.500	1	01/17/2019 21:57	WG1225168
Chloromethane	U		0.153	1.25	1	01/17/2019 21:57	WG1225168
2-Chlorotoluene	U		0.111	0.500	1	01/17/2019 21:57	WG1225168
4-Chlorotoluene	U		0.0972	0.500	1	01/17/2019 21:57	WG1225168
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/17/2019 21:57	WG1225168
1,2-Dibromoethane	U		0.193	0.500	1	01/17/2019 21:57	WG1225168
Dibromomethane	U		0.117	0.500	1	01/17/2019 21:57	WG1225168
1,2-Dichlorobenzene	U		0.101	0.500	1	01/17/2019 21:57	WG1225168
1,3-Dichlorobenzene	U		0.130	0.500	1	01/17/2019 21:57	WG1225168
1,4-Dichlorobenzene	U		0.121	0.500	1	01/17/2019 21:57	WG1225168
Dichlorodifluoromethane	U		0.127	2.50	1	01/17/2019 21:57	WG1225168
1,1-Dichloroethane	U		0.114	0.500	1	01/17/2019 21:57	WG1225168
1,2-Dichloroethane	U		0.108	0.500	1	01/17/2019 21:57	WG1225168
1,1-Dichloroethene	U		0.188	0.500	1	01/17/2019 21:57	WG1225168
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/17/2019 21:57	WG1225168
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/17/2019 21:57	WG1225168
1,2-Dichloropropane	U		0.190	0.500	1	01/17/2019 21:57	WG1225168
1,1-Dichloropropene	U		0.128	0.500	1	01/17/2019 21:57	WG1225168
1,3-Dichloropropane	U		0.147	1.00	1	01/17/2019 21:57	WG1225168
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/17/2019 21:57	WG1225168
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/17/2019 21:57	WG1225168
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/17/2019 21:57	WG1225168
2,2-Dichloropropane	U		0.0929	0.500	1	01/17/2019 21:57	WG1225168
Di-isopropyl ether	U		0.0924	0.500	1	01/17/2019 21:57	WG1225168
Ethylbenzene	U		0.158	0.500	1	01/17/2019 21:57	WG1225168
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/17/2019 21:57	WG1225168
2-Hexanone	U		0.757	5.00	1	01/17/2019 21:57	WG1225168
n-Hexane	U		0.305	5.00	1	01/17/2019 21:57	WG1225168
Iodomethane	U		0.377	10.0	1	01/17/2019 21:57	WG1225168
Isopropylbenzene	U		0.126	0.500	1	01/17/2019 21:57	WG1225168
p-Isopropyltoluene	U		0.138	0.500	1	01/17/2019 21:57	WG1225168
2-Butanone (MEK)	U		1.28	5.00	1	01/17/2019 21:57	WG1225168
Methylene Chloride	U		1.07	2.50	1	01/17/2019 21:57	WG1225168
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/17/2019 21:57	WG1225168
Methyl tert-butyl ether	U		0.102	0.500	1	01/17/2019 21:57	WG1225168
Naphthalene	U		0.174	2.50	1	01/17/2019 21:57	WG1225168
n-Propylbenzene	U		0.162	0.500	1	01/17/2019 21:57	WG1225168
Styrene	U		0.117	0.500	1	01/17/2019 21:57	WG1225168
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/17/2019 21:57	WG1225168
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/17/2019 21:57	WG1225168

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Collected date/time: 01/15/19 00:00

SAMPLE RESULTS - 13

L1061673

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/17/2019 21:57	WG1225168
Tetrachloroethene	U		0.199	0.500	1	01/17/2019 21:57	WG1225168
Toluene	U		0.412	0.500	1	01/17/2019 21:57	WG1225168
1,2,3-Trichlorobenzene	0.169	J	0.164	0.500	1	01/17/2019 21:57	WG1225168
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/17/2019 21:57	WG1225168
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/17/2019 21:57	WG1225168
1,1,2-Trichloroethane	U		0.186	0.500	1	01/17/2019 21:57	WG1225168
Trichloroethene	U		0.153	0.500	1	01/17/2019 21:57	WG1225168
Trichlorofluoromethane	U		0.130	2.50	1	01/17/2019 21:57	WG1225168
1,2,3-Trichloropropane	U		0.247	2.50	1	01/17/2019 21:57	WG1225168
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/17/2019 21:57	WG1225168
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/17/2019 21:57	WG1225168
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/17/2019 21:57	WG1225168
Vinyl acetate	U		0.645	5.00	1	01/17/2019 21:57	WG1225168
Vinyl chloride	U		0.118	0.500	1	01/17/2019 21:57	WG1225168
Xylenes, Total	U		0.316	1.50	1	01/17/2019 21:57	WG1225168
(S) Toluene-d8	*105*			*80.0-120*		*01/17/2019 21:57*	WG1225168
(S) Dibromofluoromethane	*101*			*75.0-120*		*01/17/2019 21:57*	WG1225168
(S) 4-Bromofluorobenzene	*97.6*			*77.0-126*		*01/17/2019 21:57*	WG1225168

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.7		1	01/22/2019 13:06	WG1226664

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		0.924	2.73	25	01/22/2019 07:27	WG1226427
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*77.0-120*		*01/22/2019 07:27*	WG1226427

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0149	0.0273	1	01/22/2019 13:27	WG1226460
Acrylonitrile	U		0.00207	0.0136	1	01/22/2019 13:27	WG1226460
Benzene	U		0.000436	0.00109	1	01/22/2019 13:27	WG1226460
Bromobenzene	U		0.00114	0.0136	1	01/22/2019 13:27	WG1226460
Bromodichloromethane	U		0.000859	0.00273	1	01/22/2019 13:27	WG1226460
Bromochloromethane	U		0.00123	0.00545	1	01/22/2019 13:27	WG1226460
Bromoform	U		0.00652	0.0273	1	01/22/2019 13:27	WG1226460
Bromomethane	U		0.00403	0.0136	1	01/22/2019 13:27	WG1226460
n-Butylbenzene	U		0.00419	0.0136	1	01/25/2019 23:26	WG1228513
sec-Butylbenzene	U		0.00276	0.0136	1	01/22/2019 13:27	WG1226460
tert-Butylbenzene	U		0.00169	0.00545	1	01/22/2019 13:27	WG1226460
Carbon disulfide	U		0.00443	0.0136	1	01/22/2019 13:27	WG1226460
Carbon tetrachloride	U		0.00118	0.00545	1	01/22/2019 13:27	WG1226460
Chlorobenzene	U		0.000625	0.00273	1	01/22/2019 13:27	WG1226460
Chlorodibromomethane	U		0.000491	0.00273	1	01/22/2019 13:27	WG1226460
Chloroethane	U		0.00118	0.00545	1	01/22/2019 13:27	WG1226460
Chloroform	U		0.000452	0.00273	1	01/22/2019 13:27	WG1226460
Chloromethane	U		0.00152	0.0136	1	01/22/2019 13:27	WG1226460
2-Chlorotoluene	U		0.00100	0.00273	1	01/22/2019 13:27	WG1226460
4-Chlorotoluene	U		0.00123	0.00545	1	01/22/2019 13:27	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	01/25/2019 23:26	WG1228513
1,2-Dibromoethane	U		0.000572	0.00273	1	01/22/2019 13:27	WG1226460
Dibromomethane	U		0.00109	0.00545	1	01/22/2019 13:27	WG1226460
1,2-Dichlorobenzene	U		0.00158	0.00545	1	01/22/2019 13:27	WG1226460
1,3-Dichlorobenzene	U		0.00185	0.00545	1	01/22/2019 13:27	WG1226460
1,4-Dichlorobenzene	U		0.00215	0.00545	1	01/22/2019 13:27	WG1226460
Dichlorodifluoromethane	U		0.000892	0.00273	1	01/25/2019 23:26	WG1228513
1,1-Dichloroethane	U		0.000627	0.00273	1	01/22/2019 13:27	WG1226460
1,2-Dichloroethane	U		0.000518	0.00273	1	01/22/2019 13:27	WG1226460
1,1-Dichloroethene	U		0.000545	0.00273	1	01/25/2019 23:26	WG1228513
cis-1,2-Dichloroethene	U		0.000752	0.00273	1	01/25/2019 23:26	WG1228513
trans-1,2-Dichloroethene	U		0.00156	0.00545	1	01/22/2019 13:27	WG1226460
1,2-Dichloropropane	U		0.00138	0.00545	1	01/22/2019 13:27	WG1226460
1,1-Dichloropropene	U		0.000763	0.00273	1	01/22/2019 13:27	WG1226460
1,3-Dichloropropane	U		0.00191	0.00545	1	01/22/2019 13:27	WG1226460
cis-1,3-Dichloropropene	U		0.000739	0.00273	1	01/22/2019 13:27	WG1226460
trans-1,3-Dichloropropene	U		0.00167	0.00545	1	01/22/2019 13:27	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00153	0.00545	1	01/25/2019 23:26	WG1228513
2,2-Dichloropropane	U		0.000864	0.00273	1	01/22/2019 13:27	WG1226460
Di-isopropyl ether	U		0.000382	0.00109	1	01/25/2019 23:26	WG1228513
Ethylbenzene	U		0.000578	0.00273	1	01/22/2019 13:27	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0138	0.0273	1	01/22/2019 13:27	WG1226460
2-Hexanone	U		0.0109	0.0273	1	01/22/2019 13:27	WG1226460
n-Hexane	0.00778	~~B~~	0.00116	0.00545	1	01/22/2019 13:27	WG1226460

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Iodomethane	U			0.00660	0.0136	1	01/22/2019 13:27	WG1226460	
Isopropylbenzene	U			0.000941	0.00273	1	01/22/2019 13:27	WG1226460	
p-Isopropyltoluene	U			0.00254	0.00545	1	01/22/2019 13:27	WG1226460	
2-Butanone (MEK)	0.0206	J	J	0.0136	0.0273	1	01/22/2019 13:27	WG1226460	
Methylene Chloride	U			0.00724	0.0273	1	01/22/2019 13:27	WG1226460	
4-Methyl-2-pentanone (MIBK)	U			0.0109	0.0273	1	01/22/2019 13:27	WG1226460	
Methyl tert-butyl ether	U			0.000322	0.00109	1	01/22/2019 13:27	WG1226460	
Naphthalene	U			0.00340	0.0136	1	01/25/2019 23:26	WG1228513	
n-Propylbenzene	U			0.00129	0.00545	1	01/25/2019 23:26	WG1228513	
Styrene	U			0.00298	0.0136	1	01/22/2019 13:27	WG1226460	
1,1,1,2-Tetrachloroethane	U			0.000545	0.00273	1	01/22/2019 13:27	WG1226460	
1,1,2,2-Tetrachloroethane	U			0.000425	0.00273	1	01/25/2019 23:26	WG1228513	
1,1,2-Trichlorotrifluoroethane	U			0.000736	0.00273	1	01/22/2019 13:27	WG1226460	
Tetrachloroethene	0.0133			0.000763	0.00273	1	01/22/2019 13:27	WG1226460	
Toluene	0.00144	J	J	0.00136	0.00545	1	01/22/2019 13:27	WG1226460	
1,2,3-Trichlorobenzene	U			0.000681	0.00273	1	01/25/2019 23:26	WG1228513	
1,2,4-Trichlorobenzene	U			0.00525	0.0136	1	01/22/2019 13:27	WG1226460	
1,1,1-Trichloroethane	U			0.000300	0.00273	1	01/22/2019 13:27	WG1226460	
1,1,2-Trichloroethane	U			0.000963	0.00273	1	01/22/2019 13:27	WG1226460	
Trichloroethene	U			0.000436	0.00109	1	01/22/2019 13:27	WG1226460	
Trichlorofluoromethane	U			0.000545	0.00273	1	01/22/2019 13:27	WG1226460	
1,2,3-Trichloropropane	U			0.00556	0.0136	1	01/22/2019 13:27	WG1226460	
1,2,4-Trimethylbenzene	U			0.00126	0.00545	1	01/22/2019 13:27	WG1226460	
1,2,3-Trimethylbenzene	U	UJ	J0 J4	0.00125	0.00545	1	01/22/2019 13:27	WG1226460	
1,3,5-Trimethylbenzene	U			0.00118	0.00545	1	01/22/2019 13:27	WG1226460	
Vinyl acetate	U		~~J4~~	0.00384	0.0136	1	01/22/2019 13:27	WG1226460	
Vinyl chloride	U			0.000745	0.00273	1	01/22/2019 13:27	WG1226460	
Xylenes, Total	U			0.00521	0.00709	1	01/22/2019 13:27	WG1226460	
(S) Toluene-d8	*107*				*75.0-131*		*01/22/2019 13:27*	WG1226460	
(S) Toluene-d8	*113*				*75.0-131*		*01/25/2019 23:26*	WG1228513	
(S) Dibromofluoromethane	*86.9*				*65.0-129*		*01/22/2019 13:27*	WG1226460	
(S) Dibromofluoromethane	*82.2*				*65.0-129*		*01/25/2019 23:26*	WG1228513	
(S) a,a,a-Trifluorotoluene	*96.1*				*80.0-120*		*01/22/2019 13:27*	WG1226460	
(S) a,a,a-Trifluorotoluene	*106*				*80.0-120*		*01/25/2019 23:26*	WG1228513	
(S) 4-Bromofluorobenzene	*95.1*				*67.0-138*		*01/22/2019 13:27*	WG1226460	
(S) 4-Bromofluorobenzene	*104*				*67.0-138*		*01/25/2019 23:26*	WG1228513	JC 3/4/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	71.8		1	01/22/2019 13:06	WG1226664

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	4.28 J+		1.18	3.48	25	01/22/2019 07:52	WG1226427
(S) a,a,a-Trifluorotoluene(FID)	*94.4*			*77.0-120*		*01/22/2019 07:52*	WG1226427

JC 3/21/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0191	0.0348	1	01/22/2019 13:49	WG1226460
Acrylonitrile	U		0.00265	0.0174	1	01/22/2019 13:49	WG1226460
Benzene	0.0111		0.000557	0.00139	1	01/22/2019 13:49	WG1226460
Bromobenzene	U		0.00146	0.0174	1	01/22/2019 13:49	WG1226460
Bromodichloromethane	U		0.00110	0.00348	1	01/22/2019 13:49	WG1226460
Bromochloromethane	U		0.00157	0.00696	1	01/22/2019 13:49	WG1226460
Bromoform	U		0.00833	0.0348	1	01/22/2019 13:49	WG1226460
Bromomethane	U		0.00515	0.0174	1	01/22/2019 13:49	WG1226460
n-Butylbenzene	U		0.00535	0.0174	1	01/22/2019 13:49	WG1226460
sec-Butylbenzene	U		0.00352	0.0174	1	01/22/2019 13:49	WG1226460
tert-Butylbenzene	U		0.00216	0.00696	1	01/22/2019 13:49	WG1226460
Carbon disulfide	U		0.00565	0.0174	1	01/22/2019 13:49	WG1226460
Carbon tetrachloride	U		0.00150	0.00696	1	01/22/2019 13:49	WG1226460
Chlorobenzene	U		0.000798	0.00348	1	01/22/2019 13:49	WG1226460
Chlorodibromomethane	U		0.000627	0.00348	1	01/22/2019 13:49	WG1226460
Chloroethane	U		0.00150	0.00696	1	01/22/2019 13:49	WG1226460
Chloroform	U		0.000578	0.00348	1	01/22/2019 13:49	WG1226460
Chloromethane	U		0.00194	0.0174	1	01/22/2019 13:49	WG1226460
2-Chlorotoluene	U		0.00128	0.00348	1	01/22/2019 13:49	WG1226460
4-Chlorotoluene	U		0.00157	0.00696	1	01/22/2019 13:49	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00710	0.0348	1	01/25/2019 23:46	WG1228513
1,2-Dibromoethane	U		0.000731	0.00348	1	01/22/2019 13:49	WG1226460
Dibromomethane	U		0.00139	0.00696	1	01/22/2019 13:49	WG1226460
1,2-Dichlorobenzene	U		0.00202	0.00696	1	01/22/2019 13:49	WG1226460
1,3-Dichlorobenzene	U		0.00237	0.00696	1	01/22/2019 13:49	WG1226460
1,4-Dichlorobenzene	U		0.00274	0.00696	1	01/22/2019 13:49	WG1226460
Dichlorodifluoromethane	U		0.00114	0.00348	1	01/25/2019 23:46	WG1228513
1,1-Dichloroethane	U		0.000801	0.00348	1	01/22/2019 13:49	WG1226460
1,2-Dichloroethane	U		0.000662	0.00348	1	01/22/2019 13:49	WG1226460
1,1-Dichloroethene	U		0.000696	0.00348	1	01/25/2019 23:46	WG1228513
cis-1,2-Dichloroethene	U		0.000961	0.00348	1	01/25/2019 23:46	WG1228513
trans-1,2-Dichloroethene	U		0.00199	0.00696	1	01/22/2019 13:49	WG1226460
1,2-Dichloropropane	U		0.00177	0.00696	1	01/22/2019 13:49	WG1226460
1,1-Dichloropropene	U		0.000975	0.00348	1	01/22/2019 13:49	WG1226460
1,3-Dichloropropane	U		0.00244	0.00696	1	01/22/2019 13:49	WG1226460
cis-1,3-Dichloropropene	U		0.000944	0.00348	1	01/22/2019 13:49	WG1226460
trans-1,3-Dichloropropene	U		0.00213	0.00696	1	01/22/2019 13:49	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00195	0.00696	1	01/25/2019 23:46	WG1228513
2,2-Dichloropropane	U		0.00110	0.00348	1	01/22/2019 13:49	WG1226460
Di-isopropyl ether	U		0.000487	0.00139	1	01/25/2019 23:46	WG1228513
Ethylbenzene	0.00256 J	J	0.000738	0.00348	1	01/22/2019 13:49	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0177	0.0348	1	01/22/2019 13:49	WG1226460
2-Hexanone	U		0.0139	0.0348	1	01/22/2019 13:49	WG1226460
n-Hexane	0.0982		0.00148	0.00696	1	01/22/2019 13:49	WG1226460

JC 3/4/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00843	0.0174	1	01/22/2019 13:49	WG1226460
Isopropylbenzene	0.00398		0.00120	0.00348	1	01/22/2019 13:49	WG1226460
p-Isopropyltoluene	0.0695		0.00325	0.00696	1	01/22/2019 13:49	WG1226460
2-Butanone (MEK)	U		0.0174	0.0348	1	01/22/2019 13:49	WG1226460
Methylene Chloride	U		0.00925	0.0348	1	01/22/2019 13:49	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0139	0.0348	1	01/22/2019 13:49	WG1226460
Methyl tert-butyl ether	U		0.000411	0.00139	1	01/22/2019 13:49	WG1226460
Naphthalene	U		0.00435	0.0174	1	01/25/2019 23:46	WG1228513
n-Propylbenzene	U		0.00164	0.00696	1	01/25/2019 23:46	WG1228513
Styrene	U		0.00380	0.0174	1	01/22/2019 13:49	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000696	0.00348	1	01/22/2019 13:49	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000543	0.00348	1	01/25/2019 23:46	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000940	0.00348	1	01/22/2019 13:49	WG1226460
Tetrachloroethene	0.180		0.000975	0.00348	1	01/22/2019 13:49	WG1226460
Toluene	0.00424 J	J	0.00174	0.00696	1	01/22/2019 13:49	WG1226460
1,2,3-Trichlorobenzene	U		0.000870	0.00348	1	01/25/2019 23:46	WG1228513
1,2,4-Trichlorobenzene	U		0.00671	0.0174	1	01/22/2019 13:49	WG1226460
1,1,1-Trichloroethane	U		0.000383	0.00348	1	01/22/2019 13:49	WG1226460
1,1,2-Trichloroethane	U		0.00123	0.00348	1	01/22/2019 13:49	WG1226460
Trichloroethene	U		0.000557	0.00139	1	01/22/2019 13:49	WG1226460
Trichlorofluoromethane	U		0.000696	0.00348	1	01/22/2019 13:49	WG1226460
1,2,3-Trichloropropane	U		0.00710	0.0174	1	01/22/2019 13:49	WG1226460
1,2,4-Trimethylbenzene	0.00413 J	J	0.00162	0.00696	1	01/22/2019 13:49	WG1226460
1,2,3-Trimethylbenzene	0.00283 J	J J0 J4	0.00160	0.00696	1	01/22/2019 13:49	WG1226460
1,3,5-Trimethylbenzene	0.00618 J	J	0.00150	0.00696	1	01/22/2019 13:49	WG1226460
Vinyl acetate	U	~~J4~~	0.00490	0.0174	1	01/22/2019 13:49	WG1226460
Vinyl chloride	U		0.000951	0.00348	1	01/22/2019 13:49	WG1226460
Xylenes, Total	0.0127		0.00666	0.00905	1	01/22/2019 13:49	WG1226460
(S) Toluene-d8	*85.5*			*75.0-131*		*01/22/2019 13:49*	WG1226460
(S) Toluene-d8	*94.3*			*75.0-131*		*01/25/2019 23:46*	WG1228513
(S) Dibromofluoromethane	*85.3*			*65.0-129*		*01/22/2019 13:49*	WG1226460
(S) Dibromofluoromethane	*84.0*			*65.0-129*		*01/25/2019 23:46*	WG1228513
(S) a,a,a-Trifluorotoluene	*96.4*			*80.0-120*		*01/22/2019 13:49*	WG1226460
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*		*01/25/2019 23:46*	WG1228513
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*		*01/22/2019 13:49*	WG1226460
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/25/2019 23:46*	WG1228513

JC 3/4/19

A3C3-3
Collected date/time: 01/16/19 14:35

SAMPLE RESULTS - 03

L1062820

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.8		1	01/22/2019 13:06	WG1226664

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		0.904	2.67	25	01/22/2019 08:16	WG1226427
(S) a,a,a-Trifluorotoluene(FID)	*94.6*			*77.0-120*		*01/22/2019 08:16*	WG1226427

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0146	0.0267	1	01/22/2019 14:12	WG1226460
Acrylonitrile	U		0.00203	0.0133	1	01/22/2019 14:12	WG1226460
Benzene	U		0.000427	0.00107	1	01/22/2019 14:12	WG1226460
Bromobenzene	U		0.00112	0.0133	1	01/22/2019 14:12	WG1226460
Bromodichloromethane	U		0.000840	0.00267	1	01/22/2019 14:12	WG1226460
Bromochloromethane	U		0.00121	0.00533	1	01/22/2019 14:12	WG1226460
Bromoform	U		0.00638	0.0267	1	01/22/2019 14:12	WG1226460
Bromomethane	U		0.00395	0.0133	1	01/22/2019 14:12	WG1226460
n-Butylbenzene	U		0.00409	0.0133	1	01/22/2019 14:12	WG1226460
sec-Butylbenzene	U		0.00270	0.0133	1	01/22/2019 14:12	WG1226460
tert-Butylbenzene	U		0.00165	0.00533	1	01/22/2019 14:12	WG1226460
Carbon disulfide	U		0.00433	0.0133	1	01/22/2019 14:12	WG1226460
Carbon tetrachloride	U		0.00115	0.00533	1	01/22/2019 14:12	WG1226460
Chlorobenzene	U		0.000611	0.00267	1	01/22/2019 14:12	WG1226460
Chlorodibromomethane	U		0.000480	0.00267	1	01/22/2019 14:12	WG1226460
Chloroethane	U		0.00115	0.00533	1	01/22/2019 14:12	WG1226460
Chloroform	U		0.000443	0.00267	1	01/22/2019 14:12	WG1226460
Chloromethane	U		0.00148	0.0133	1	01/22/2019 14:12	WG1226460
2-Chlorotoluene	U		0.000981	0.00267	1	01/22/2019 14:12	WG1226460
4-Chlorotoluene	U		0.00121	0.00533	1	01/22/2019 14:12	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00544	0.0267	1	01/26/2019 00:07	WG1228513
1,2-Dibromoethane	U		0.000560	0.00267	1	01/22/2019 14:12	WG1226460
Dibromomethane	U		0.00107	0.00533	1	01/22/2019 14:12	WG1226460
1,2-Dichlorobenzene	U		0.00155	0.00533	1	01/22/2019 14:12	WG1226460
1,3-Dichlorobenzene	U		0.00181	0.00533	1	01/22/2019 14:12	WG1226460
1,4-Dichlorobenzene	U		0.00210	0.00533	1	01/22/2019 14:12	WG1226460
Dichlorodifluoromethane	U		0.000872	0.00267	1	01/26/2019 00:07	WG1228513
1,1-Dichloroethane	U		0.000613	0.00267	1	01/22/2019 14:12	WG1226460
1,2-Dichloroethane	U		0.000507	0.00267	1	01/22/2019 14:12	WG1226460
1,1-Dichloroethene	U		0.000533	0.00267	1	01/26/2019 00:07	WG1228513
cis-1,2-Dichloroethene	U		0.000736	0.00267	1	01/26/2019 00:07	WG1228513
trans-1,2-Dichloroethene	U		0.00152	0.00533	1	01/22/2019 14:12	WG1226460
1,2-Dichloropropane	U		0.00135	0.00533	1	01/22/2019 14:12	WG1226460
1,1-Dichloropropene	U		0.000746	0.00267	1	01/22/2019 14:12	WG1226460
1,3-Dichloropropane	U		0.00187	0.00533	1	01/22/2019 14:12	WG1226460
cis-1,3-Dichloropropene	U		0.000723	0.00267	1	01/22/2019 14:12	WG1226460
trans-1,3-Dichloropropene	U		0.00163	0.00533	1	01/22/2019 14:12	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00149	0.00533	1	01/26/2019 00:07	WG1228513
2,2-Dichloropropane	U		0.000846	0.00267	1	01/22/2019 14:12	WG1226460
Di-isopropyl ether	U		0.000373	0.00107	1	01/26/2019 00:07	WG1228513
Ethylbenzene	U		0.000565	0.00267	1	01/22/2019 14:12	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0135	0.0267	1	01/22/2019 14:12	WG1226460
2-Hexanone	U		0.0107	0.0267	1	01/22/2019 14:12	WG1226460
n-Hexane	0.00684	~~B~~	0.00113	0.00533	1	01/22/2019 14:12	WG1226460

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U			0.00645	0.0133	1	01/22/2019 14:12	WG1226460
Isopropylbenzene	U			0.000920	0.00267	1	01/22/2019 14:12	WG1226460
p-Isopropyltoluene	U			0.00248	0.00533	1	01/22/2019 14:12	WG1226460
2-Butanone (MEK)	0.0194	J	J	0.0133	0.0267	1	01/22/2019 14:12	WG1226460
Methylene Chloride	U			0.00708	0.0267	1	01/22/2019 14:12	WG1226460
4-Methyl-2-pentanone (MIBK)	U			0.0107	0.0267	1	01/22/2019 14:12	WG1226460
Methyl tert-butyl ether	U			0.000315	0.00107	1	01/22/2019 14:12	WG1226460
Naphthalene	U			0.00333	0.0133	1	01/26/2019 00:07	WG1228513
n-Propylbenzene	U			0.00126	0.00533	1	01/22/2019 14:12	WG1226460
Styrene	U			0.00291	0.0133	1	01/22/2019 14:12	WG1226460
1,1,1,2-Tetrachloroethane	U			0.000533	0.00267	1	01/22/2019 14:12	WG1226460
1,1,2,2-Tetrachloroethane	U			0.000416	0.00267	1	01/26/2019 00:07	WG1228513
1,1,2-Trichlorotrifluoroethane	U			0.000720	0.00267	1	01/22/2019 14:12	WG1226460
Tetrachloroethene	0.00790			0.000746	0.00267	1	01/22/2019 14:12	WG1226460
Toluene	0.00283	J	J	0.00133	0.00533	1	01/22/2019 14:12	WG1226460
1,2,3-Trichlorobenzene	U			0.000666	0.00267	1	01/26/2019 00:07	WG1228513
1,2,4-Trichlorobenzene	U			0.00514	0.0133	1	01/22/2019 14:12	WG1226460
1,1,1-Trichloroethane	U			0.000293	0.00267	1	01/22/2019 14:12	WG1226460
1,1,2-Trichloroethane	U			0.000942	0.00267	1	01/22/2019 14:12	WG1226460
Trichloroethene	0.000766	J	J	0.000427	0.00107	1	01/22/2019 14:12	WG1226460
Trichlorofluoromethane	U			0.000533	0.00267	1	01/22/2019 14:12	WG1226460
1,2,3-Trichloropropane	U			0.00544	0.0133	1	01/22/2019 14:12	WG1226460
1,2,4-Trimethylbenzene	U			0.00124	0.00533	1	01/22/2019 14:12	WG1226460
1,2,3-Trimethylbenzene	U	UJ	J0 J4	0.00123	0.00533	1	01/22/2019 14:12	WG1226460
1,3,5-Trimethylbenzene	U			0.00115	0.00533	1	01/22/2019 14:12	WG1226460
Vinyl acetate	U		~~J4~~	0.00375	0.0133	1	01/22/2019 14:12	WG1226460
Vinyl chloride	U			0.000728	0.00267	1	01/22/2019 14:12	WG1226460
Xylenes, Total	U			0.00510	0.00693	1	01/22/2019 14:12	WG1226460
(S) Toluene-d8	*108*				*75.0-131*		*01/22/2019 14:12*	WG1226460
(S) Toluene-d8	*111*				*75.0-131*		*01/26/2019 00:07*	WG1228513
(S) Dibromofluoromethane	*86.8*				*65.0-129*		*01/22/2019 14:12*	WG1226460
(S) Dibromofluoromethane	*83.9*				*65.0-129*		*01/26/2019 00:07*	WG1228513
(S) a,a,a-Trifluorotoluene	*100*				*80.0-120*		*01/22/2019 14:12*	WG1226460
(S) a,a,a-Trifluorotoluene	*105*				*80.0-120*		*01/26/2019 00:07*	WG1228513
(S) 4-Bromofluorobenzene	*95.2*				*67.0-138*		*01/22/2019 14:12*	WG1226460
(S) 4-Bromofluorobenzene	*105*				*67.0-138*		*01/26/2019 00:07*	WG1228513

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A3C3-6

Collected date/time: 01/16/19 14:50

SAMPLE RESULTS - 04

L1062820

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.2		1	01/22/2019 13:06	WG1226664

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		0.973	2.87	25	01/22/2019 08:40	WG1226427
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*77.0-120*		*01/22/2019 08:40*	WG1226427

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0287	1	01/22/2019 14:34	WG1226460
Acrylonitrile	U		0.00218	0.0143	1	01/22/2019 14:34	WG1226460
Benzene	U		0.000459	0.00115	1	01/22/2019 14:34	WG1226460
Bromobenzene	U		0.00120	0.0143	1	01/22/2019 14:34	WG1226460
Bromodichloromethane	U		0.000904	0.00287	1	01/22/2019 14:34	WG1226460
Bromochloromethane	U		0.00130	0.00574	1	01/22/2019 14:34	WG1226460
Bromoform	U		0.00686	0.0287	1	01/22/2019 14:34	WG1226460
Bromomethane	U		0.00424	0.0143	1	01/22/2019 14:34	WG1226460
n-Butylbenzene	U		0.00441	0.0143	1	01/22/2019 14:34	WG1226460
sec-Butylbenzene	U		0.00290	0.0143	1	01/22/2019 14:34	WG1226460
tert-Butylbenzene	U		0.00178	0.00574	1	01/22/2019 14:34	WG1226460
Carbon disulfide	U		0.00466	0.0143	1	01/22/2019 14:34	WG1226460
Carbon tetrachloride	U		0.00124	0.00574	1	01/22/2019 14:34	WG1226460
Chlorobenzene	U		0.000657	0.00287	1	01/22/2019 14:34	WG1226460
Chlorodibromomethane	U		0.000516	0.00287	1	01/22/2019 14:34	WG1226460
Chloroethane	U		0.00124	0.00574	1	01/22/2019 14:34	WG1226460
Chloroform	U		0.000476	0.00287	1	01/22/2019 14:34	WG1226460
Chloromethane	U		0.00159	0.0143	1	01/22/2019 14:34	WG1226460
2-Chlorotoluene	U		0.00106	0.00287	1	01/22/2019 14:34	WG1226460
4-Chlorotoluene	U		0.00130	0.00574	1	01/22/2019 14:34	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00585	0.0287	1	01/26/2019 00:27	WG1228513
1,2-Dibromoethane	U		0.000602	0.00287	1	01/22/2019 14:34	WG1226460
Dibromomethane	U		0.00115	0.00574	1	01/22/2019 14:34	WG1226460
1,2-Dichlorobenzene	U		0.00166	0.00574	1	01/22/2019 14:34	WG1226460
1,3-Dichlorobenzene	U		0.00195	0.00574	1	01/22/2019 14:34	WG1226460
1,4-Dichlorobenzene	U		0.00226	0.00574	1	01/22/2019 14:34	WG1226460
Dichlorodifluoromethane	U		0.000938	0.00287	1	01/26/2019 00:27	WG1228513
1,1-Dichloroethane	U		0.000660	0.00287	1	01/22/2019 14:34	WG1226460
1,2-Dichloroethane	U		0.000545	0.00287	1	01/22/2019 14:34	WG1226460
1,1-Dichloroethene	U		0.000574	0.00287	1	01/26/2019 00:27	WG1228513
cis-1,2-Dichloroethene	0.00343		0.000792	0.00287	1	01/26/2019 00:27	WG1228513
trans-1,2-Dichloroethene	U		0.00164	0.00574	1	01/22/2019 14:34	WG1226460
1,2-Dichloropropane	U		0.00146	0.00574	1	01/22/2019 14:34	WG1226460
1,1-Dichloropropene	U		0.000803	0.00287	1	01/22/2019 14:34	WG1226460
1,3-Dichloropropane	U		0.00201	0.00574	1	01/22/2019 14:34	WG1226460
cis-1,3-Dichloropropene	U		0.000778	0.00287	1	01/22/2019 14:34	WG1226460
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	01/22/2019 14:34	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	01/26/2019 00:27	WG1228513
2,2-Dichloropropane	U		0.000910	0.00287	1	01/22/2019 14:34	WG1226460
Di-isopropyl ether	U		0.000401	0.00115	1	01/26/2019 00:27	WG1228513
Ethylbenzene	0.00140 J	J	0.000608	0.00287	1	01/22/2019 14:34	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0146	0.0287	1	01/22/2019 14:34	WG1226460
2-Hexanone	U		0.0115	0.0287	1	01/22/2019 14:34	WG1226460
n-Hexane	0.116		0.00122	0.00574	1	01/22/2019 14:34	WG1226460

JC 3/4/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00694	0.0143	1	01/22/2019 14:34	WG1226460
Isopropylbenzene	U		0.000990	0.00287	1	01/22/2019 14:34	WG1226460
p-Isopropyltoluene	U		0.00267	0.00574	1	01/22/2019 14:34	WG1226460
2-Butanone (MEK)	U		0.0143	0.0287	1	01/22/2019 14:34	WG1226460
Methylene Chloride	U		0.00762	0.0287	1	01/22/2019 14:34	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	01/22/2019 14:34	WG1226460
Methyl tert-butyl ether	U		0.000338	0.00115	1	01/22/2019 14:34	WG1226460
Naphthalene	U		0.00358	0.0143	1	01/26/2019 00:27	WG1228513
n-Propylbenzene	U		0.00135	0.00574	1	01/22/2019 14:34	WG1226460
Styrene	U		0.00313	0.0143	1	01/22/2019 14:34	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	01/22/2019 14:34	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000447	0.00287	1	01/26/2019 00:27	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000774	0.00287	1	01/22/2019 14:34	WG1226460
Tetrachloroethene	0.160		0.000803	0.00287	1	01/22/2019 14:34	WG1226460
Toluene	0.00350 J	J	0.00143	0.00574	1	01/22/2019 14:34	WG1226460
1,2,3-Trichlorobenzene	U		0.000717	0.00287	1	01/26/2019 00:27	WG1228513
1,2,4-Trichlorobenzene	U		0.00553	0.0143	1	01/22/2019 14:34	WG1226460
1,1,1-Trichloroethane	U		0.000315	0.00287	1	01/22/2019 14:34	WG1226460
1,1,2-Trichloroethane	U		0.00101	0.00287	1	01/22/2019 14:34	WG1226460
Trichloroethene	0.0214		0.000459	0.00115	1	01/22/2019 14:34	WG1226460
Trichlorofluoromethane	U		0.000574	0.00287	1	01/22/2019 14:34	WG1226460
1,2,3-Trichloropropane	U		0.00585	0.0143	1	01/22/2019 14:34	WG1226460
1,2,4-Trimethylbenzene	0.00472 J	J	0.00133	0.00574	1	01/22/2019 14:34	WG1226460
1,2,3-Trimethylbenzene	0.00263 J	J J0 J4	0.00132	0.00574	1	01/22/2019 14:34	WG1226460
1,3,5-Trimethylbenzene	0.00135 J	J	0.00124	0.00574	1	01/22/2019 14:34	WG1226460
Vinyl acetate	U	~~J4~~	0.00404	0.0143	1	01/22/2019 14:34	WG1226460
Vinyl chloride	U		0.000783	0.00287	1	01/22/2019 14:34	WG1226460
Xylenes, Total	U		0.00548	0.00746	1	01/22/2019 14:34	WG1226460
(S) Toluene-d8	*100*			*75.0-131*		*01/22/2019 14:34*	WG1226460
(S) Toluene-d8	*107*			*75.0-131*		*01/26/2019 00:27*	WG1228513
(S) Dibromofluoromethane	*84.6*			*65.0-129*		*01/22/2019 14:34*	WG1226460
(S) Dibromofluoromethane	*88.1*			*65.0-129*		*01/26/2019 00:27*	WG1228513
(S) a,a,a-Trifluorotoluene	*98.7*			*80.0-120*		*01/22/2019 14:34*	WG1226460
(S) a,a,a-Trifluorotoluene	*105*			*80.0-120*		*01/26/2019 00:27*	WG1228513
(S) 4-Bromofluorobenzene	*94.7*			*67.0-138*		*01/22/2019 14:34*	WG1226460
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/26/2019 00:27*	WG1228513

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	63.5		1	01/22/2019 13:06	WG1226664

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	12.9 J+		1.70	5.00	31.75	01/22/2019 09:05	WG1226427
(S) a,a,a-Trifluorotoluene(FID)	*93.8*			*77.0-120*		*01/22/2019 09:05*	WG1226427

JC 3/21/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0274	0.0500	1.27	01/22/2019 14:56	WG1226460
Acrylonitrile	U		0.00380	0.0250	1.27	01/22/2019 14:56	WG1226460
Benzene	0.00540		0.000800	0.00200	1.27	01/22/2019 14:56	WG1226460
Bromobenzene	U		0.00210	0.0250	1.27	01/22/2019 14:56	WG1226460
Bromodichloromethane	U		0.00158	0.00500	1.27	01/22/2019 14:56	WG1226460
Bromochloromethane	U		0.00227	0.0100	1.27	01/22/2019 14:56	WG1226460
Bromoform	U		0.0120	0.0500	1.27	01/22/2019 14:56	WG1226460
Bromomethane	U		0.00741	0.0250	1.27	01/22/2019 14:56	WG1226460
n-Butylbenzene	U		0.00769	0.0250	1.27	01/22/2019 14:56	WG1226460
sec-Butylbenzene	U		0.00506	0.0250	1.27	01/22/2019 14:56	WG1226460
tert-Butylbenzene	U		0.00310	0.0100	1.27	01/22/2019 14:56	WG1226460
Carbon disulfide	U		0.00813	0.0250	1.27	01/22/2019 14:56	WG1226460
Carbon tetrachloride	U		0.00216	0.0100	1.27	01/22/2019 14:56	WG1226460
Chlorobenzene	U		0.00115	0.00500	1.27	01/22/2019 14:56	WG1226460
Chlorodibromomethane	U		0.000901	0.00500	1.27	01/22/2019 14:56	WG1226460
Chloroethane	U		0.00216	0.0100	1.27	01/22/2019 14:56	WG1226460
Chloroform	U		0.000830	0.00500	1.27	01/22/2019 14:56	WG1226460
Chloromethane	U		0.00277	0.0250	1.27	01/22/2019 14:56	WG1226460
2-Chlorotoluene	U		0.00184	0.00500	1.27	01/22/2019 14:56	WG1226460
4-Chlorotoluene	U		0.00227	0.0100	1.27	01/22/2019 14:56	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.0102	0.0500	1.27	01/26/2019 00:47	WG1228513
1,2-Dibromoethane	U		0.00105	0.00500	1.27	01/22/2019 14:56	WG1226460
Dibromomethane	U		0.00200	0.0100	1.27	01/22/2019 14:56	WG1226460
1,2-Dichlorobenzene	U		0.00290	0.0100	1.27	01/22/2019 14:56	WG1226460
1,3-Dichlorobenzene	U		0.00340	0.0100	1.27	01/22/2019 14:56	WG1226460
1,4-Dichlorobenzene	U		0.00394	0.0100	1.27	01/22/2019 14:56	WG1226460
Dichlorodifluoromethane	U		0.00164	0.00500	1.27	01/26/2019 00:47	WG1228513
1,1-Dichloroethane	U		0.00115	0.00500	1.27	01/22/2019 14:56	WG1226460
1,2-Dichloroethane	U		0.000950	0.00500	1.27	01/22/2019 14:56	WG1226460
1,1-Dichloroethene	U		0.00100	0.00500	1.27	01/26/2019 00:47	WG1228513
cis-1,2-Dichloroethene	0.00948		0.00138	0.00500	1.27	01/26/2019 00:47	WG1228513
trans-1,2-Dichloroethene	U		0.00287	0.0100	1.27	01/22/2019 14:56	WG1226460
1,2-Dichloropropane	U		0.00254	0.0100	1.27	01/22/2019 14:56	WG1226460
1,1-Dichloropropene	U		0.00140	0.00500	1.27	01/22/2019 14:56	WG1226460
1,3-Dichloropropane	U		0.00350	0.0100	1.27	01/22/2019 14:56	WG1226460
cis-1,3-Dichloropropene	U		0.00136	0.00500	1.27	01/22/2019 14:56	WG1226460
trans-1,3-Dichloropropene	U		0.00306	0.0100	1.27	01/22/2019 14:56	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00280	0.0100	1.27	01/26/2019 00:47	WG1228513
2,2-Dichloropropane	U		0.00159	0.00500	1.27	01/22/2019 14:56	WG1226460
Di-isopropyl ether	U		0.000700	0.00200	1.27	01/26/2019 00:47	WG1228513
Ethylbenzene	0.00311 J	J	0.00106	0.00500	1.27	01/22/2019 14:56	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0254	0.0500	1.27	01/22/2019 14:56	WG1226460
2-Hexanone	U		0.0200	0.0500	1.27	01/22/2019 14:56	WG1226460
n-Hexane	0.269		0.00213	0.0100	1.27	01/22/2019 14:56	WG1226460

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.0121	0.0250	1.27	01/22/2019 14:56	WG1226460
Isopropylbenzene	U		0.00173	0.00500	1.27	01/22/2019 14:56	WG1226460
p-Isopropyltoluene	0.0289		0.00466	0.0100	1.27	01/22/2019 14:56	WG1226460
2-Butanone (MEK)	U		0.0251	0.0500	1.27	01/22/2019 14:56	WG1226460
Methylene Chloride	U		0.0133	0.0500	1.27	01/22/2019 14:56	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0200	0.0500	1.27	01/22/2019 14:56	WG1226460
Methyl tert-butyl ether	U		0.000591	0.00200	1.27	01/22/2019 14:56	WG1226460
Naphthalene	U		0.00624	0.0250	1.27	01/26/2019 00:47	WG1228513
n-Propylbenzene	U		0.00236	0.0100	1.27	01/22/2019 14:56	WG1226460
Styrene	U		0.00547	0.0250	1.27	01/22/2019 14:56	WG1226460
1,1,1,2-Tetrachloroethane	U		0.00100	0.00500	1.27	01/22/2019 14:56	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000780	0.00500	1.27	01/26/2019 00:47	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.00135	0.00500	1.27	01/22/2019 14:56	WG1226460
Tetrachloroethene	0.149		0.00140	0.00500	1.27	01/22/2019 14:56	WG1226460
Toluene	0.0380		0.00251	0.0100	1.27	01/22/2019 14:56	WG1226460
1,2,3-Trichlorobenzene	U		0.00125	0.00500	1.27	01/26/2019 00:47	WG1228513
1,2,4-Trichlorobenzene	U		0.00964	0.0250	1.27	01/22/2019 14:56	WG1226460
1,1,1-Trichloroethane	U		0.000550	0.00500	1.27	01/22/2019 14:56	WG1226460
1,1,2-Trichloroethane	U		0.00176	0.00500	1.27	01/22/2019 14:56	WG1226460
Trichloroethene	0.0396		0.000800	0.00200	1.27	01/22/2019 14:56	WG1226460
Trichlorofluoromethane	U		0.00100	0.00500	1.27	01/22/2019 14:56	WG1226460
1,2,3-Trichloropropane	U		0.0102	0.0250	1.27	01/22/2019 14:56	WG1226460
1,2,4-Trimethylbenzene	0.00457 J	J	0.00232	0.0100	1.27	01/22/2019 14:56	WG1226460
1,2,3-Trimethylbenzene	0.00354 J	J J0 J4	0.00230	0.0100	1.27	01/22/2019 14:56	WG1226460
1,3,5-Trimethylbenzene	U		0.00216	0.0100	1.27	01/22/2019 14:56	WG1226460
Vinyl acetate	U	~~J4~~	0.00704	0.0250	1.27	01/22/2019 14:56	WG1226460
Vinyl chloride	U		0.00137	0.00500	1.27	01/22/2019 14:56	WG1226460
Xylenes, Total	0.0142		0.00956	0.0130	1.27	01/22/2019 14:56	WG1226460
(S) Toluene-d8	*108*			*75.0-131*		*01/22/2019 14:56*	WG1226460
(S) Toluene-d8	*108*			*75.0-131*		*01/26/2019 00:47*	WG1228513
(S) Dibromofluoromethane	*87.7*			*65.0-129*		*01/22/2019 14:56*	WG1226460
(S) Dibromofluoromethane	*86.2*			*65.0-129*		*01/26/2019 00:47*	WG1228513
(S) a,a,a-Trifluorotoluene	*98.3*			*80.0-120*		*01/22/2019 14:56*	WG1226460
(S) a,a,a-Trifluorotoluene	*108*			*80.0-120*		*01/26/2019 00:47*	WG1228513
(S) 4-Bromofluorobenzene	*93.6*			*67.0-138*		*01/22/2019 14:56*	WG1226460
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/26/2019 00:47*	WG1228513

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.4		1	01/23/2019 12:49	WG1226762

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0155	0.0283	1	01/22/2019 15:19	WG1226460
Acrylonitrile	U		0.00215	0.0141	1	01/22/2019 15:19	WG1226460
Benzene	U		0.000453	0.00113	1	01/22/2019 15:19	WG1226460
Bromobenzene	U		0.00119	0.0141	1	01/22/2019 15:19	WG1226460
Bromodichloromethane	U		0.000891	0.00283	1	01/22/2019 15:19	WG1226460
Bromochloromethane	U		0.00128	0.00566	1	01/22/2019 15:19	WG1226460
Bromoform	U		0.00677	0.0283	1	01/22/2019 15:19	WG1226460
Bromomethane	U		0.00419	0.0141	1	01/22/2019 15:19	WG1226460
n-Butylbenzene	U		0.00434	0.0141	1	01/22/2019 15:19	WG1226460
sec-Butylbenzene	U		0.00286	0.0141	1	01/22/2019 15:19	WG1226460
tert-Butylbenzene	U		0.00175	0.00566	1	01/22/2019 15:19	WG1226460
Carbon disulfide	U		0.00459	0.0141	1	01/22/2019 15:19	WG1226460
Carbon tetrachloride	U		0.00122	0.00566	1	01/22/2019 15:19	WG1226460
Chlorobenzene	U		0.000648	0.00283	1	01/22/2019 15:19	WG1226460
Chlorodibromomethane	U		0.000509	0.00283	1	01/22/2019 15:19	WG1226460
Chloroethane	U		0.00122	0.00566	1	01/22/2019 15:19	WG1226460
Chloroform	U		0.000470	0.00283	1	01/22/2019 15:19	WG1226460
Chloromethane	U		0.00157	0.0141	1	01/22/2019 15:19	WG1226460
2-Chlorotoluene	U		0.00104	0.00283	1	01/22/2019 15:19	WG1226460
4-Chlorotoluene	U		0.00128	0.00566	1	01/22/2019 15:19	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00577	0.0283	1	01/26/2019 01:08	WG1228513
1,2-Dibromoethane	U		0.000594	0.00283	1	01/22/2019 15:19	WG1226460
Dibromomethane	U		0.00113	0.00566	1	01/22/2019 15:19	WG1226460
1,2-Dichlorobenzene	U		0.00164	0.00566	1	01/22/2019 15:19	WG1226460
1,3-Dichlorobenzene	U		0.00192	0.00566	1	01/22/2019 15:19	WG1226460
1,4-Dichlorobenzene	U		0.00223	0.00566	1	01/22/2019 15:19	WG1226460
Dichlorodifluoromethane	U		0.000925	0.00283	1	01/26/2019 01:08	WG1228513
1,1-Dichloroethane	U		0.000651	0.00283	1	01/22/2019 15:19	WG1226460
1,2-Dichloroethane	U		0.000537	0.00283	1	01/22/2019 15:19	WG1226460
1,1-Dichloroethene	U		0.000566	0.00283	1	01/26/2019 01:08	WG1228513
cis-1,2-Dichloroethene	U		0.000781	0.00283	1	01/26/2019 01:08	WG1228513
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	01/22/2019 15:19	WG1226460
1,2-Dichloropropane	U		0.00144	0.00566	1	01/22/2019 15:19	WG1226460
1,1-Dichloropropene	U		0.000792	0.00283	1	01/22/2019 15:19	WG1226460
1,3-Dichloropropane	U		0.00198	0.00566	1	01/22/2019 15:19	WG1226460
cis-1,3-Dichloropropene	U		0.000767	0.00283	1	01/22/2019 15:19	WG1226460
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	01/22/2019 15:19	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00158	0.00566	1	01/26/2019 01:08	WG1228513
2,2-Dichloropropane	U		0.000897	0.00283	1	01/22/2019 15:19	WG1226460
Di-isopropyl ether	U		0.000396	0.00113	1	01/26/2019 01:08	WG1228513
Ethylbenzene	U		0.000600	0.00283	1	01/22/2019 15:19	WG1226460
Hexachloro-1,3-butadiene	U	UJ J0	0.0144	0.0283	1	01/22/2019 15:19	WG1226460
2-Hexanone	U		0.0113	0.0283	1	01/22/2019 15:19	WG1226460
n-Hexane	0.00346	U B J	0.00120	0.00566	1	01/22/2019 15:19	WG1226460
Iodomethane	U		0.00684	0.0141	1	01/22/2019 15:19	WG1226460
Isopropylbenzene	U		0.000976	0.00283	1	01/22/2019 15:19	WG1226460
p-Isopropyltoluene	U		0.00264	0.00566	1	01/22/2019 15:19	WG1226460
2-Butanone (MEK)	0.0388		0.0141	0.0283	1	01/22/2019 15:19	WG1226460
Methylene Chloride	U		0.00751	0.0283	1	01/22/2019 15:19	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	01/22/2019 15:19	WG1226460

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	01/22/2019 15:19	WG1226460
Naphthalene	U		0.00353	0.0141	1	01/26/2019 01:08	WG1228513
n-Propylbenzene	U		0.00133	0.00566	1	01/22/2019 15:19	WG1226460
Styrene	U		0.00309	0.0141	1	01/22/2019 15:19	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	01/22/2019 15:19	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	01/26/2019 01:08	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	01/22/2019 15:19	WG1226460
Tetrachloroethene	U		0.000792	0.00283	1	01/22/2019 15:19	WG1226460
Toluene	U		0.00141	0.00566	1	01/22/2019 15:19	WG1226460
1,2,3-Trichlorobenzene	U		0.000707	0.00283	1	01/26/2019 01:08	WG1228513
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	01/22/2019 15:19	WG1226460
1,1,1-Trichloroethane	U		0.000311	0.00283	1	01/22/2019 15:19	WG1226460
1,1,2-Trichloroethane	U		0.000999	0.00283	1	01/22/2019 15:19	WG1226460
Trichloroethene	U		0.000453	0.00113	1	01/22/2019 15:19	WG1226460
Trichlorofluoromethane	U		0.000566	0.00283	1	01/22/2019 15:19	WG1226460
1,2,3-Trichloropropane	U		0.00577	0.0141	1	01/22/2019 15:19	WG1226460
1,2,4-Trimethylbenzene	U		0.00131	0.00566	1	01/22/2019 15:19	WG1226460
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.00130	0.00566	1	01/22/2019 15:19	WG1226460
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	01/22/2019 15:19	WG1226460
Vinyl acetate	U	~~J4~~	0.00398	0.0141	1	01/22/2019 15:19	WG1226460
Vinyl chloride	U		0.000773	0.00283	1	01/22/2019 15:19	WG1226460
Xylenes, Total	U		0.00541	0.00735	1	01/22/2019 15:19	WG1226460
(S) Toluene-d8	*111*			*75.0-131*		*01/22/2019 15:19*	WG1226460
(S) Toluene-d8	*112*			*75.0-131*		*01/26/2019 01:08*	WG1228513
(S) Dibromofluoromethane	*85.7*			*65.0-129*		*01/22/2019 15:19*	WG1226460
(S) Dibromofluoromethane	*83.2*			*65.0-129*		*01/26/2019 01:08*	WG1228513
(S) a,a,a-Trifluorotoluene	*98.9*			*80.0-120*		*01/22/2019 15:19*	WG1226460
(S) a,a,a-Trifluorotoluene	*109*			*80.0-120*		*01/26/2019 01:08*	WG1228513
(S) 4-Bromofluorobenzene	*93.5*			*67.0-138*		*01/22/2019 15:19*	WG1226460
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/26/2019 01:08*	WG1228513

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	68.0		1	01/23/2019 12:49	WG1226762

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0215	0.0393	1.07	01/22/2019 15:41	WG1226460
Acrylonitrile	U		0.00299	0.0197	1.07	01/22/2019 15:41	WG1226460
Benzene	0.00961		0.000629	0.00157	1.07	01/22/2019 15:41	WG1226460
Bromobenzene	U		0.00165	0.0197	1.07	01/22/2019 15:41	WG1226460
Bromodichloromethane	U		0.00124	0.00393	1.07	01/22/2019 15:41	WG1226460
Bromochloromethane	U		0.00178	0.00787	1.07	01/22/2019 15:41	WG1226460
Bromoform	U		0.00941	0.0393	1.07	01/22/2019 15:41	WG1226460
Bromomethane	U		0.00582	0.0197	1.07	01/22/2019 15:41	WG1226460
n-Butylbenzene	U		0.00604	0.0197	1.07	01/22/2019 15:41	WG1226460
sec-Butylbenzene	U		0.00399	0.0197	1.07	01/22/2019 15:41	WG1226460
tert-Butylbenzene	U		0.00244	0.00787	1.07	01/22/2019 15:41	WG1226460
Carbon disulfide	U		0.00638	0.0197	1.07	01/22/2019 15:41	WG1226460
Carbon tetrachloride	U		0.00171	0.00787	1.07	01/22/2019 15:41	WG1226460
Chlorobenzene	U		0.000901	0.00393	1.07	01/22/2019 15:41	WG1226460
Chlorodibromomethane	U		0.000709	0.00393	1.07	01/22/2019 15:41	WG1226460
Chloroethane	U		0.00171	0.00787	1.07	01/22/2019 15:41	WG1226460
Chloroform	U		0.000653	0.00393	1.07	01/22/2019 15:41	WG1226460
Chloromethane	U		0.00219	0.0197	1.07	01/22/2019 15:41	WG1226460
2-Chlorotoluene	U		0.00145	0.00393	1.07	01/22/2019 15:41	WG1226460
4-Chlorotoluene	U		0.00178	0.00787	1.07	01/22/2019 15:41	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00796	0.0390	1.06	01/26/2019 01:27	WG1228513
1,2-Dibromoethane	U		0.000826	0.00393	1.07	01/22/2019 15:41	WG1226460
Dibromomethane	U		0.00157	0.00787	1.07	01/22/2019 15:41	WG1226460
1,2-Dichlorobenzene	U		0.00228	0.00787	1.07	01/22/2019 15:41	WG1226460
1,3-Dichlorobenzene	U		0.00268	0.00787	1.07	01/22/2019 15:41	WG1226460
1,4-Dichlorobenzene	U		0.00310	0.00787	1.07	01/22/2019 15:41	WG1226460
Dichlorodifluoromethane	U		0.00127	0.00390	1.06	01/26/2019 01:27	WG1228513
1,1-Dichloroethane	U		0.000904	0.00393	1.07	01/22/2019 15:41	WG1226460
1,2-Dichloroethane	U		0.000747	0.00393	1.07	01/22/2019 15:41	WG1226460
1,1-Dichloroethene	U		0.000779	0.00390	1.06	01/26/2019 01:27	WG1228513
cis-1,2-Dichloroethene	0.00697		0.00107	0.00390	1.06	01/26/2019 01:27	WG1228513
trans-1,2-Dichloroethene	U		0.00225	0.00787	1.07	01/22/2019 15:41	WG1226460
1,2-Dichloropropane	U		0.00200	0.00787	1.07	01/22/2019 15:41	WG1226460
1,1-Dichloropropene	U		0.00110	0.00393	1.07	01/22/2019 15:41	WG1226460
1,3-Dichloropropane	U		0.00275	0.00787	1.07	01/22/2019 15:41	WG1226460
cis-1,3-Dichloropropene	U		0.00107	0.00393	1.07	01/22/2019 15:41	WG1226460
trans-1,3-Dichloropropene	U		0.00241	0.00787	1.07	01/22/2019 15:41	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00218	0.00779	1.06	01/26/2019 01:27	WG1228513
2,2-Dichloropropane	U		0.00125	0.00393	1.07	01/22/2019 15:41	WG1226460
Di-isopropyl ether	U		0.000546	0.00156	1.06	01/26/2019 01:27	WG1228513
Ethylbenzene	0.00168 J	J	0.000834	0.00393	1.07	01/22/2019 15:41	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0200	0.0393	1.07	01/22/2019 15:41	WG1226460
2-Hexanone	U		0.0157	0.0393	1.07	01/22/2019 15:41	WG1226460
n-Hexane	0.205		0.00166	0.00787	1.07	01/22/2019 15:41	WG1226460
Iodomethane	U		0.00951	0.0197	1.07	01/22/2019 15:41	WG1226460
Isopropylbenzene	U		0.00136	0.00393	1.07	01/22/2019 15:41	WG1226460
p-Isopropyltoluene	0.0100		0.00366	0.00787	1.07	01/22/2019 15:41	WG1226460
2-Butanone (MEK)	0.0763		0.0197	0.0393	1.07	01/22/2019 15:41	WG1226460 JC 3/4/19
Methylene Chloride	U		0.0104	0.0393	1.07	01/22/2019 15:41	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0157	0.0393	1.07	01/22/2019 15:41	WG1226460

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000465	0.00157	1.07	01/22/2019 15:41	WG1226460
Naphthalene	U			0.00487	0.0195	1.06	01/26/2019 01:27	WG1228513
n-Propylbenzene	U			0.00185	0.00787	1.07	01/22/2019 15:41	WG1226460
Styrene	U			0.00429	0.0197	1.07	01/22/2019 15:41	WG1226460
1,1,1,2-Tetrachloroethane	U			0.000787	0.00393	1.07	01/22/2019 15:41	WG1226460
1,1,2,2-Tetrachloroethane	U			0.000607	0.00390	1.06	01/26/2019 01:27	WG1228513
1,1,2-Trichlorotrifluoroethane	U			0.00106	0.00393	1.07	01/22/2019 15:41	WG1226460
Tetrachloroethene	0.0605			0.00110	0.00393	1.07	01/22/2019 15:41	WG1226460
Toluene	0.00647	J	J	0.00197	0.00787	1.07	01/22/2019 15:41	WG1226460
1,2,3-Trichlorobenzene	U			0.000973	0.00390	1.06	01/26/2019 01:27	WG1228513
1,2,4-Trichlorobenzene	U			0.00759	0.0197	1.07	01/22/2019 15:41	WG1226460
1,1,1-Trichloroethane	U			0.000432	0.00393	1.07	01/22/2019 15:41	WG1226460
1,1,2-Trichloroethane	U			0.00139	0.00393	1.07	01/22/2019 15:41	WG1226460
Trichloroethene	0.00337			0.000629	0.00157	1.07	01/22/2019 15:41	WG1226460
Trichlorofluoromethane	U			0.000787	0.00393	1.07	01/22/2019 15:41	WG1226460
1,2,3-Trichloropropane	U			0.00803	0.0197	1.07	01/22/2019 15:41	WG1226460
1,2,4-Trimethylbenzene	0.00312	J	J	0.00182	0.00787	1.07	01/22/2019 15:41	WG1226460
1,2,3-Trimethylbenzene	0.00254	J	J J0 J4	0.00181	0.00787	1.07	01/22/2019 15:41	WG1226460
1,3,5-Trimethylbenzene	U			0.00171	0.00787	1.07	01/22/2019 15:41	WG1226460
Vinyl acetate	U		~~J4~~	0.00554	0.0197	1.07	01/22/2019 15:41	WG1226460
Vinyl chloride	0.00371	J	J	0.00107	0.00393	1.07	01/22/2019 15:41	WG1226460
Xylenes, Total	0.00818	J	J	0.00751	0.0102	1.07	01/22/2019 15:41	WG1226460
(S) Toluene-d8	*104*				*75.0-131*		*01/22/2019 15:41*	WG1226460
(S) Toluene-d8	*108*				*75.0-131*		*01/26/2019 01:27*	WG1228513
(S) Dibromofluoromethane	*87.5*				*65.0-129*		*01/22/2019 15:41*	WG1226460
(S) Dibromofluoromethane	*85.7*				*65.0-129*		*01/26/2019 01:27*	WG1228513
(S) a,a,a-Trifluorotoluene	*97.1*				*80.0-120*		*01/22/2019 15:41*	WG1226460
(S) a,a,a-Trifluorotoluene	*108*				*80.0-120*		*01/26/2019 01:27*	WG1228513
(S) 4-Bromofluorobenzene	*97.8*				*67.0-138*		*01/22/2019 15:41*	WG1226460
(S) 4-Bromofluorobenzene	*105*				*67.0-138*		*01/26/2019 01:27*	WG1228513

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.7		1	01/23/2019 12:49	WG1226762

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U UJ		0.0174	0.0317	1	01/22/2019 16:03	WG1226460
Acrylonitrile	U UJ		0.00241	0.0159	1	01/22/2019 16:03	WG1226460
Benzene	0.00245 J-		0.000508	0.00127	1	01/22/2019 16:03	WG1226460
Bromobenzene	U UJ		0.00133	0.0159	1	01/22/2019 16:03	WG1226460
Bromodichloromethane	U		0.00100	0.00317	1	01/22/2019 16:03	WG1226460
Bromochloromethane	U		0.00144	0.00635	1	01/22/2019 16:03	WG1226460
Bromoform	U		0.00759	0.0317	1	01/22/2019 16:03	WG1226460
Bromomethane	U		0.00470	0.0159	1	01/22/2019 16:03	WG1226460
n-Butylbenzene	U		0.00488	0.0159	1	01/22/2019 16:03	WG1226460
sec-Butylbenzene	U		0.00321	0.0159	1	01/22/2019 16:03	WG1226460
tert-Butylbenzene	U UJ		0.00197	0.00635	1	01/22/2019 16:03	WG1226460
Carbon disulfide	0.00913 J-	J	0.00516	0.0159	1	01/22/2019 16:03	WG1226460
Carbon tetrachloride	U UJ		0.00137	0.00635	1	01/22/2019 16:03	WG1226460
Chlorobenzene	U		0.000728	0.00317	1	01/22/2019 16:03	WG1226460
Chlorodibromomethane	U		0.000571	0.00317	1	01/22/2019 16:03	WG1226460
Chloroethane	U		0.00137	0.00635	1	01/22/2019 16:03	WG1226460
Chloroform	U		0.000527	0.00317	1	01/22/2019 16:03	WG1226460
Chloromethane	U		0.00177	0.0159	1	01/22/2019 16:03	WG1226460
2-Chlorotoluene	U		0.00117	0.00317	1	01/22/2019 16:03	WG1226460
4-Chlorotoluene	U		0.00144	0.00635	1	01/22/2019 16:03	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00648	0.0317	1	01/26/2019 01:48	WG1228513
1,2-Dibromoethane	U		0.000667	0.00317	1	01/22/2019 16:03	WG1226460
Dibromomethane	U		0.00127	0.00635	1	01/22/2019 16:03	WG1226460
1,2-Dichlorobenzene	U		0.00184	0.00635	1	01/22/2019 16:03	WG1226460
1,3-Dichlorobenzene	U		0.00216	0.00635	1	01/22/2019 16:03	WG1226460
1,4-Dichlorobenzene	U		0.00250	0.00635	1	01/22/2019 16:03	WG1226460
Dichlorodifluoromethane	U		0.00104	0.00317	1	01/26/2019 01:48	WG1228513
1,1-Dichloroethane	U		0.000730	0.00317	1	01/22/2019 16:03	WG1226460
1,2-Dichloroethane	U		0.000603	0.00317	1	01/22/2019 16:03	WG1226460
1,1-Dichloroethene	U UJ		0.000635	0.00317	1	01/26/2019 01:48	WG1228513
cis-1,2-Dichloroethene	0.0467 J-		0.000876	0.00317	1	01/26/2019 01:48	WG1228513
trans-1,2-Dichloroethene	0.00429 J-	J	0.00182	0.00635	1	01/22/2019 16:03	WG1226460
1,2-Dichloropropane	U UJ		0.00161	0.00635	1	01/22/2019 16:03	WG1226460
1,1-Dichloropropene	U		0.000889	0.00317	1	01/22/2019 16:03	WG1226460
1,3-Dichloropropane	U		0.00222	0.00635	1	01/22/2019 16:03	WG1226460
cis-1,3-Dichloropropene	U		0.000861	0.00317	1	01/22/2019 16:03	WG1226460
trans-1,3-Dichloropropene	U		0.00194	0.00635	1	01/22/2019 16:03	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00178	0.00635	1	01/26/2019 01:48	WG1228513
2,2-Dichloropropane	U		0.00101	0.00317	1	01/22/2019 16:03	WG1226460
Di-isopropyl ether	U UJ		0.000444	0.00127	1	01/26/2019 01:48	WG1228513
Ethylbenzene	0.00140 J-	J	0.000673	0.00317	1	01/22/2019 16:03	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0161	0.0317	1	01/22/2019 16:03	WG1226460
2-Hexanone	U UJ		0.0127	0.0317	1	01/22/2019 16:03	WG1226460
n-Hexane	0.122 J-		0.00135	0.00635	1	01/22/2019 16:03	WG1226460
Iodomethane	U UJ		0.00768	0.0159	1	01/22/2019 16:03	WG1226460
Isopropylbenzene	0.00117 J-	J	0.00110	0.00317	1	01/22/2019 16:03	WG1226460
p-Isopropyltoluene	0.00814 J-		0.00296	0.00635	1	01/22/2019 16:03	WG1226460
2-Butanone (MEK)	0.0545 J-		0.0159	0.0317	1	01/22/2019 16:03	WG1226460
Methylene Chloride	U UJ		0.00843	0.0317	1	01/22/2019 16:03	WG1226460
4-Methyl-2-pentanone (MIBK)	U UJ		0.0127	0.0317	1	01/22/2019 16:03	WG1226460

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	UJ		0.000375	0.00127	1	01/22/2019 16:03	WG1226460
Naphthalene	0.00918	J-	J	0.00396	0.0159	1	01/26/2019 01:48	WG1228513
n-Propylbenzene	U	UJ		0.00150	0.00635	1	01/22/2019 16:03	WG1226460
Styrene	U	↓		0.00347	0.0159	1	01/22/2019 16:03	WG1226460
1,1,1,2-Tetrachloroethane	U	↓		0.000635	0.00317	1	01/22/2019 16:03	WG1226460
1,1,2,2-Tetrachloroethane	U	↓		0.000495	0.00317	1	01/26/2019 01:48	WG1228513
1,1,2-Trichlorotrifluoroethane	U	UJ		0.000857	0.00317	1	01/22/2019 16:03	WG1226460
Tetrachloroethene	0.00665	J-		0.000889	0.00317	1	01/22/2019 16:03	WG1226460
Toluene	0.00632	J-	J	0.00159	0.00635	1	01/22/2019 16:03	WG1226460
1,2,3-Trichlorobenzene	U	UJ		0.000794	0.00317	1	01/26/2019 01:48	WG1228513
1,2,4-Trichlorobenzene	U	↓		0.00612	0.0159	1	01/22/2019 16:03	WG1226460
1,1,1-Trichloroethane	U	↓		0.000349	0.00317	1	01/22/2019 16:03	WG1226460
1,1,2-Trichloroethane	U	UJ		0.00112	0.00317	1	01/22/2019 16:03	WG1226460
Trichloroethene	0.00675	J-		0.000508	0.00127	1	01/22/2019 16:03	WG1226460
Trichlorofluoromethane	U	UJ		0.000635	0.00317	1	01/22/2019 16:03	WG1226460
1,2,3-Trichloropropane	U	UJ		0.00648	0.0159	1	01/22/2019 16:03	WG1226460
1,2,4-Trimethylbenzene	0.00409	J-	J	0.00147	0.00635	1	01/22/2019 16:03	WG1226460
1,2,3-Trimethylbenzene	0.00277	J-	J J0 J4	0.00146	0.00635	1	01/22/2019 16:03	WG1226460
1,3,5-Trimethylbenzene	0.00183	J-	J	0.00137	0.00635	1	01/22/2019 16:03	WG1226460
Vinyl acetate	U	UJ	~~J4~~	0.00447	0.0159	1	01/22/2019 16:03	WG1226460
Vinyl chloride	0.0160	J-		0.000867	0.00317	1	01/22/2019 16:03	WG1226460
Xylenes, Total	0.00611	J-	J	0.00607	0.00825	1	01/22/2019 16:03	WG1226460
(S) Toluene-d8	*71.3*		J2		*75.0-131*		*01/22/2019 16:03*	WG1226460
(S) Toluene-d8	*69.3*		J2		*75.0-131*		*01/26/2019 01:48*	WG1228513
(S) Dibromofluoromethane	*86.8*				*65.0-129*		*01/22/2019 16:03*	WG1226460
(S) Dibromofluoromethane	*83.2*				*65.0-129*		*01/26/2019 01:48*	WG1228513
(S) a,a,a-Trifluorotoluene	*96.8*				*80.0-120*		*01/22/2019 16:03*	WG1226460
(S) a,a,a-Trifluorotoluene	*108*				*80.0-120*		*01/26/2019 01:48*	WG1228513
(S) 4-Bromofluorobenzene	*99.0*				*67.0-138*		*01/22/2019 16:03*	WG1226460
(S) 4-Bromofluorobenzene	*104*				*67.0-138*		*01/26/2019 01:48*	WG1228513

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/20/2019 22:41	WG1226185
Acrylonitrile	U		0.873	5.00	1	01/20/2019 22:41	WG1226185
Benzene	U		0.0896	0.500	1	01/20/2019 22:41	WG1226185
Bromobenzene	U		0.133	0.500	1	01/20/2019 22:41	WG1226185
Bromodichloromethane	U		0.0800	0.500	1	01/20/2019 22:41	WG1226185
Bromochloromethane	U		0.145	0.500	1	01/20/2019 22:41	WG1226185
Bromoform	U		0.186	0.500	1	01/20/2019 22:41	WG1226185
Bromomethane	U		0.157	2.50	1	01/20/2019 22:41	WG1226185
n-Butylbenzene	U		0.143	0.500	1	01/20/2019 22:41	WG1226185
sec-Butylbenzene	U		0.134	0.500	1	01/20/2019 22:41	WG1226185
tert-Butylbenzene	U		0.183	0.500	1	01/20/2019 22:41	WG1226185
Carbon disulfide	U		0.101	0.500	1	01/20/2019 22:41	WG1226185
Carbon tetrachloride	U		0.159	0.500	1	01/20/2019 22:41	WG1226185
Chlorobenzene	U		0.140	0.500	1	01/20/2019 22:41	WG1226185
Chlorodibromomethane	U		0.128	0.500	1	01/20/2019 22:41	WG1226185
Chloroethane	U		0.141	2.50	1	01/20/2019 22:41	WG1226185
Chloroform	U		0.0860	0.500	1	01/20/2019 22:41	WG1226185
Chloromethane	U		0.153	1.25	1	01/20/2019 22:41	WG1226185
2-Chlorotoluene	U		0.111	0.500	1	01/20/2019 22:41	WG1226185
4-Chlorotoluene	U		0.0972	0.500	1	01/20/2019 22:41	WG1226185
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/20/2019 22:41	WG1226185
1,2-Dibromoethane	U		0.193	0.500	1	01/20/2019 22:41	WG1226185
Dibromomethane	U		0.117	0.500	1	01/20/2019 22:41	WG1226185
1,2-Dichlorobenzene	U		0.101	0.500	1	01/20/2019 22:41	WG1226185
1,3-Dichlorobenzene	U		0.130	0.500	1	01/20/2019 22:41	WG1226185
1,4-Dichlorobenzene	U		0.121	0.500	1	01/20/2019 22:41	WG1226185
Dichlorodifluoromethane	U		0.127	2.50	1	01/20/2019 22:41	WG1226185
1,1-Dichloroethane	U		0.114	0.500	1	01/20/2019 22:41	WG1226185
1,2-Dichloroethane	U		0.108	0.500	1	01/20/2019 22:41	WG1226185
1,1-Dichloroethene	U		0.188	0.500	1	01/20/2019 22:41	WG1226185
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/20/2019 22:41	WG1226185
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/20/2019 22:41	WG1226185
1,2-Dichloropropane	U		0.190	0.500	1	01/20/2019 22:41	WG1226185
1,1-Dichloropropene	U		0.128	0.500	1	01/20/2019 22:41	WG1226185
1,3-Dichloropropane	U		0.147	1.00	1	01/20/2019 22:41	WG1226185
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/20/2019 22:41	WG1226185
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/20/2019 22:41	WG1226185
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/20/2019 22:41	WG1226185
2,2-Dichloropropane	U		0.0929	0.500	1	01/20/2019 22:41	WG1226185
Di-isopropyl ether	U		0.0924	0.500	1	01/20/2019 22:41	WG1226185
Ethylbenzene	U		0.158	0.500	1	01/20/2019 22:41	WG1226185
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/20/2019 22:41	WG1226185
2-Hexanone	U		0.757	5.00	1	01/20/2019 22:41	WG1226185
n-Hexane	U		0.305	5.00	1	01/20/2019 22:41	WG1226185
Iodomethane	U		0.377	10.0	1	01/20/2019 22:41	WG1226185
Isopropylbenzene	U		0.126	0.500	1	01/20/2019 22:41	WG1226185
p-Isopropyltoluene	U		0.138	0.500	1	01/20/2019 22:41	WG1226185
2-Butanone (MEK)	U		1.28	5.00	1	01/20/2019 22:41	WG1226185
Methylene Chloride	U		1.07	2.50	1	01/20/2019 22:41	WG1226185
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/20/2019 22:41	WG1226185
Methyl tert-butyl ether	U		0.102	0.500	1	01/20/2019 22:41	WG1226185
Naphthalene	U		0.174	2.50	1	01/20/2019 22:41	WG1226185
n-Propylbenzene	U		0.162	0.500	1	01/20/2019 22:41	WG1226185
Styrene	U		0.117	0.500	1	01/20/2019 22:41	WG1226185
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/20/2019 22:41	WG1226185
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/20/2019 22:41	WG1226185

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/20/2019 22:41	WG1226185
Tetrachloroethene	U		0.199	0.500	1	01/20/2019 22:41	WG1226185
Toluene	U		0.412	0.500	1	01/20/2019 22:41	WG1226185
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/20/2019 22:41	WG1226185
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/20/2019 22:41	WG1226185
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/20/2019 22:41	WG1226185
1,1,2-Trichloroethane	U		0.186	0.500	1	01/20/2019 22:41	WG1226185
Trichloroethene	U		0.153	0.500	1	01/20/2019 22:41	WG1226185
Trichlorofluoromethane	U		0.130	2.50	1	01/20/2019 22:41	WG1226185
1,2,3-Trichloropropane	U		0.247	2.50	1	01/20/2019 22:41	WG1226185
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/20/2019 22:41	WG1226185
1,2,3-Trimethylbenzene	U	J4	0.0739	0.500	1	01/20/2019 22:41	WG1226185
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/20/2019 22:41	WG1226185
Vinyl acetate	U		0.645	5.00	1	01/20/2019 22:41	WG1226185
Vinyl chloride	U		0.118	0.500	1	01/20/2019 22:41	WG1226185
Xylenes, Total	U		0.316	1.50	1	01/20/2019 22:41	WG1226185
(S) Toluene-d8	*98.0*			*80.0-120*		*01/20/2019 22:41*	WG1226185
(S) Dibromofluoromethane	*94.0*			*75.0-120*		*01/20/2019 22:41*	WG1226185
(S) a,a,a-Trifluorotoluene	*98.0*			*80.0-120*		*01/20/2019 22:41*	WG1226185
(S) 4-Bromofluorobenzene	*93.0*			*77.0-126*		*01/20/2019 22:41*	WG1226185

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.6		1	01/23/2019 12:49	WG1226762

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2.42 J	J	0.991	2.92	25	01/22/2019 15:02	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	*95.6*			*77.0-120*		*01/22/2019 15:02*	WG1226536

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0160	0.0292	1	01/22/2019 16:26	WG1226460
Acrylonitrile	U		0.00222	0.0146	1	01/22/2019 16:26	WG1226460
Benzene	0.00250		0.000467	0.00117	1	01/22/2019 16:26	WG1226460
Bromobenzene	U		0.00123	0.0146	1	01/22/2019 16:26	WG1226460
Bromodichloromethane	U		0.000921	0.00292	1	01/22/2019 16:26	WG1226460
Bromochloromethane	U		0.00132	0.00584	1	01/22/2019 16:26	WG1226460
Bromoform	U		0.00699	0.0292	1	01/22/2019 16:26	WG1226460
Bromomethane	U		0.00432	0.0146	1	01/22/2019 16:26	WG1226460
n-Butylbenzene	U		0.00449	0.0146	1	01/22/2019 16:26	WG1226460
sec-Butylbenzene	U		0.00296	0.0146	1	01/22/2019 16:26	WG1226460
tert-Butylbenzene	U		0.00181	0.00584	1	01/22/2019 16:26	WG1226460
Carbon disulfide	U		0.00474	0.0146	1	01/22/2019 16:26	WG1226460
Carbon tetrachloride	U		0.00126	0.00584	1	01/22/2019 16:26	WG1226460
Chlorobenzene	U		0.000669	0.00292	1	01/22/2019 16:26	WG1226460
Chlorodibromomethane	U		0.000526	0.00292	1	01/22/2019 16:26	WG1226460
Chloroethane	U		0.00126	0.00584	1	01/22/2019 16:26	WG1226460
Chloroform	U		0.000485	0.00292	1	01/22/2019 16:26	WG1226460
Chloromethane	U		0.00162	0.0146	1	01/22/2019 16:26	WG1226460
2-Chlorotoluene	U		0.00107	0.00292	1	01/22/2019 16:26	WG1226460
4-Chlorotoluene	U		0.00132	0.00584	1	01/22/2019 16:26	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00596	0.0292	1	01/26/2019 02:08	WG1228513
1,2-Dibromoethane	U		0.000613	0.00292	1	01/22/2019 16:26	WG1226460
Dibromomethane	U		0.00117	0.00584	1	01/22/2019 16:26	WG1226460
1,2-Dichlorobenzene	U		0.00169	0.00584	1	01/22/2019 16:26	WG1226460
1,3-Dichlorobenzene	U		0.00199	0.00584	1	01/22/2019 16:26	WG1226460
1,4-Dichlorobenzene	U		0.00230	0.00584	1	01/22/2019 16:26	WG1226460
Dichlorodifluoromethane	U		0.000956	0.00292	1	01/26/2019 02:08	WG1228513
1,1-Dichloroethane	U		0.000672	0.00292	1	01/22/2019 16:26	WG1226460
1,2-Dichloroethane	U		0.000555	0.00292	1	01/22/2019 16:26	WG1226460
1,1-Dichloroethene	U		0.000584	0.00292	1	01/26/2019 02:08	WG1228513
cis-1,2-Dichloroethene	U		0.000806	0.00292	1	01/26/2019 02:08	WG1228513
trans-1,2-Dichloroethene	U		0.00167	0.00584	1	01/22/2019 16:26	WG1226460
1,2-Dichloropropane	U		0.00148	0.00584	1	01/22/2019 16:26	WG1226460
1,1-Dichloropropene	U		0.000818	0.00292	1	01/22/2019 16:26	WG1226460
1,3-Dichloropropane	U		0.00204	0.00584	1	01/22/2019 16:26	WG1226460
cis-1,3-Dichloropropene	U		0.000792	0.00292	1	01/22/2019 16:26	WG1226460
trans-1,3-Dichloropropene	U		0.00179	0.00584	1	01/22/2019 16:26	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00164	0.00584	1	01/26/2019 02:08	WG1228513
2,2-Dichloropropane	U		0.000927	0.00292	1	01/22/2019 16:26	WG1226460
Di-isopropyl ether	U		0.000409	0.00117	1	01/26/2019 02:08	WG1228513
Ethylbenzene	0.00129 J	J	0.000619	0.00292	1	01/22/2019 16:26	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0148	0.0292	1	01/22/2019 16:26	WG1226460
2-Hexanone	U		0.0117	0.0292	1	01/22/2019 16:26	WG1226460
n-Hexane	0.0136	~~B~~	0.00124	0.00584	1	01/22/2019 16:26	WG1226460

JC 3/4/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00707	0.0146	1	01/22/2019 16:26	WG1226460
Isopropylbenzene	U		0.00101	0.00292	1	01/22/2019 16:26	WG1226460
p-Isopropyltoluene	0.0141		0.00272	0.00584	1	01/22/2019 16:26	WG1226460
2-Butanone (MEK)	U		0.0146	0.0292	1	01/22/2019 16:26	WG1226460
Methylene Chloride	U		0.00776	0.0292	1	01/22/2019 16:26	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	01/22/2019 16:26	WG1226460
Methyl tert-butyl ether	U		0.000345	0.00117	1	01/22/2019 16:26	WG1226460
Naphthalene	U		0.00365	0.0146	1	01/26/2019 02:08	WG1228513
n-Propylbenzene	0.00188 J	J	0.00138	0.00584	1	01/22/2019 16:26	WG1226460
Styrene	U		0.00319	0.0146	1	01/22/2019 16:26	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000584	0.00292	1	01/22/2019 16:26	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	01/26/2019 02:08	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000789	0.00292	1	01/22/2019 16:26	WG1226460
Tetrachloroethene	0.00192 J	J	0.000818	0.00292	1	01/22/2019 16:26	WG1226460
Toluene	0.00261 J	J	0.00146	0.00584	1	01/22/2019 16:26	WG1226460
1,2,3-Trichlorobenzene	U		0.000730	0.00292	1	01/26/2019 02:08	WG1228513
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1	01/22/2019 16:26	WG1226460
1,1,1-Trichloroethane	U		0.000321	0.00292	1	01/22/2019 16:26	WG1226460
1,1,2-Trichloroethane	U		0.00103	0.00292	1	01/22/2019 16:26	WG1226460
Trichloroethene	U		0.000467	0.00117	1	01/22/2019 16:26	WG1226460
Trichlorofluoromethane	U		0.000584	0.00292	1	01/22/2019 16:26	WG1226460
1,2,3-Trichloropropane	U		0.00596	0.0146	1	01/22/2019 16:26	WG1226460
1,2,4-Trimethylbenzene	0.00188 J	J	0.00136	0.00584	1	01/22/2019 16:26	WG1226460
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.00134	0.00584	1	01/22/2019 16:26	WG1226460
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1	01/22/2019 16:26	WG1226460
Vinyl acetate	U	~~J4~~	0.00411	0.0146	1	01/22/2019 16:26	WG1226460
Vinyl chloride	U		0.000798	0.00292	1	01/22/2019 16:26	WG1226460
Xylenes, Total	U		0.00558	0.00759	1	01/22/2019 16:26	WG1226460
(S) Toluene-d8	*95.0*			*75.0-131*		*01/22/2019 16:26*	WG1226460
(S) Toluene-d8	*98.9*			*75.0-131*		*01/26/2019 02:08*	WG1228513
(S) Dibromofluoromethane	*86.8*			*65.0-129*		*01/22/2019 16:26*	WG1226460
(S) Dibromofluoromethane	*84.1*			*65.0-129*		*01/26/2019 02:08*	WG1228513
(S) a,a,a-Trifluorotoluene	*99.7*			*80.0-120*		*01/22/2019 16:26*	WG1226460
(S) a,a,a-Trifluorotoluene	*104*			*80.0-120*		*01/26/2019 02:08*	WG1228513
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*01/22/2019 16:26*	WG1226460
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/26/2019 02:08*	WG1228513

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	65.4		1	01/23/2019 12:49	WG1226762

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.67 J	J	1.30	3.82	25	01/22/2019 15:23	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	*93.7*			*77.0-120*		*01/22/2019 15:23*	WG1226536

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0209	0.0382	1	01/22/2019 16:48	WG1226460
Acrylonitrile	U		0.00290	0.0191	1	01/22/2019 16:48	WG1226460
Benzene	U		0.000611	0.00153	1	01/22/2019 16:48	WG1226460
Bromobenzene	U		0.00161	0.0191	1	01/22/2019 16:48	WG1226460
Bromodichloromethane	U		0.00120	0.00382	1	01/22/2019 16:48	WG1226460
Bromochloromethane	U		0.00173	0.00764	1	01/22/2019 16:48	WG1226460
Bromoform	U		0.00914	0.0382	1	01/22/2019 16:48	WG1226460
Bromomethane	U		0.00566	0.0191	1	01/22/2019 16:48	WG1226460
n-Butylbenzene	U		0.00587	0.0191	1	01/22/2019 16:48	WG1226460
sec-Butylbenzene	U		0.00387	0.0191	1	01/22/2019 16:48	WG1226460
tert-Butylbenzene	U		0.00237	0.00764	1	01/22/2019 16:48	WG1226460
Carbon disulfide	U		0.00621	0.0191	1	01/22/2019 16:48	WG1226460
Carbon tetrachloride	U		0.00165	0.00764	1	01/22/2019 16:48	WG1226460
Chlorobenzene	U		0.000876	0.00382	1	01/22/2019 16:48	WG1226460
Chlorodibromomethane	U		0.000688	0.00382	1	01/22/2019 16:48	WG1226460
Chloroethane	U		0.00165	0.00764	1	01/22/2019 16:48	WG1226460
Chloroform	U		0.000634	0.00382	1	01/22/2019 16:48	WG1226460
Chloromethane	U		0.00212	0.0191	1	01/22/2019 16:48	WG1226460
2-Chlorotoluene	U		0.00141	0.00382	1	01/22/2019 16:48	WG1226460
4-Chlorotoluene	U		0.00173	0.00764	1	01/22/2019 16:48	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00780	0.0382	1	01/26/2019 02:28	WG1228513
1,2-Dibromoethane	U		0.000803	0.00382	1	01/22/2019 16:48	WG1226460
Dibromomethane	U		0.00153	0.00764	1	01/22/2019 16:48	WG1226460
1,2-Dichlorobenzene	U		0.00222	0.00764	1	01/22/2019 16:48	WG1226460
1,3-Dichlorobenzene	U		0.00260	0.00764	1	01/22/2019 16:48	WG1226460
1,4-Dichlorobenzene	U		0.00301	0.00764	1	01/22/2019 16:48	WG1226460
Dichlorodifluoromethane	U		0.00125	0.00382	1	01/26/2019 02:28	WG1228513
1,1-Dichloroethane	U		0.000879	0.00382	1	01/22/2019 16:48	WG1226460
1,2-Dichloroethane	U		0.000726	0.00382	1	01/22/2019 16:48	WG1226460
1,1-Dichloroethene	U		0.000764	0.00382	1	01/26/2019 02:28	WG1228513
cis-1,2-Dichloroethene	U		0.00105	0.00382	1	01/26/2019 02:28	WG1228513
trans-1,2-Dichloroethene	U		0.00219	0.00764	1	01/22/2019 16:48	WG1226460
1,2-Dichloropropane	U		0.00194	0.00764	1	01/22/2019 16:48	WG1226460
1,1-Dichloropropene	U		0.00107	0.00382	1	01/22/2019 16:48	WG1226460
1,3-Dichloropropane	U		0.00268	0.00764	1	01/22/2019 16:48	WG1226460
cis-1,3-Dichloropropene	U		0.00104	0.00382	1	01/22/2019 16:48	WG1226460
trans-1,3-Dichloropropene	U		0.00234	0.00764	1	01/22/2019 16:48	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00214	0.00764	1	01/26/2019 02:28	WG1228513
2,2-Dichloropropane	U		0.00121	0.00382	1	01/22/2019 16:48	WG1226460
Di-isopropyl ether	U		0.000535	0.00153	1	01/26/2019 02:28	WG1228513
Ethylbenzene	U		0.000810	0.00382	1	01/22/2019 16:48	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0194	0.0382	1	01/22/2019 16:48	WG1226460
2-Hexanone	U		0.0153	0.0382	1	01/22/2019 16:48	WG1226460
n-Hexane	0.00264 U	~~B J~~	0.00162	0.00764	1	01/22/2019 16:48	WG1226460

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00925	0.0191	1	01/22/2019 16:48	WG1226460
Isopropylbenzene	U		0.00132	0.00382	1	01/22/2019 16:48	WG1226460
p-Isopropyltoluene	U		0.00356	0.00764	1	01/22/2019 16:48	WG1226460
2-Butanone (MEK)	U		0.0191	0.0382	1	01/22/2019 16:48	WG1226460
Methylene Chloride	U		0.0102	0.0382	1	01/22/2019 16:48	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0153	0.0382	1	01/22/2019 16:48	WG1226460
Methyl tert-butyl ether	U		0.000451	0.00153	1	01/22/2019 16:48	WG1226460
Naphthalene	U		0.00477	0.0191	1	01/26/2019 02:28	WG1228513
n-Propylbenzene	U		0.00180	0.00764	1	01/22/2019 16:48	WG1226460
Styrene	U		0.00417	0.0191	1	01/22/2019 16:48	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000764	0.00382	1	01/22/2019 16:48	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000596	0.00382	1	01/26/2019 02:28	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.00103	0.00382	1	01/22/2019 16:48	WG1226460
Tetrachloroethene	U		0.00107	0.00382	1	01/22/2019 16:48	WG1226460
Toluene	U		0.00191	0.00764	1	01/22/2019 16:48	WG1226460
1,2,3-Trichlorobenzene	U		0.000955	0.00382	1	01/26/2019 02:28	WG1228513
1,2,4-Trichlorobenzene	U		0.00737	0.0191	1	01/22/2019 16:48	WG1226460
1,1,1-Trichloroethane	U		0.000420	0.00382	1	01/22/2019 16:48	WG1226460
1,1,2-Trichloroethane	U		0.00135	0.00382	1	01/22/2019 16:48	WG1226460
Trichloroethene	U		0.000611	0.00153	1	01/22/2019 16:48	WG1226460
Trichlorofluoromethane	U		0.000764	0.00382	1	01/22/2019 16:48	WG1226460
1,2,3-Trichloropropane	U		0.00780	0.0191	1	01/22/2019 16:48	WG1226460
1,2,4-Trimethylbenzene	U		0.00177	0.00764	1	01/22/2019 16:48	WG1226460
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.00176	0.00764	1	01/22/2019 16:48	WG1226460
1,3,5-Trimethylbenzene	U		0.00165	0.00764	1	01/22/2019 16:48	WG1226460
Vinyl acetate	U	~~J4~~	0.00538	0.0191	1	01/22/2019 16:48	WG1226460
Vinyl chloride	U		0.00104	0.00382	1	01/22/2019 16:48	WG1226460
Xylenes, Total	U		0.00731	0.00994	1	01/22/2019 16:48	WG1226460
(S) Toluene-d8	*102*			*75.0-131*		*01/22/2019 16:48*	WG1226460
(S) Toluene-d8	*106*			*75.0-131*		*01/26/2019 02:28*	WG1228513
(S) Dibromofluoromethane	*88.2*			*65.0-129*		*01/22/2019 16:48*	WG1226460
(S) Dibromofluoromethane	*86.0*			*65.0-129*		*01/26/2019 02:28*	WG1228513
(S) a,a,a-Trifluorotoluene	*99.7*			*80.0-120*		*01/22/2019 16:48*	WG1226460
(S) a,a,a-Trifluorotoluene	*107*			*80.0-120*		*01/26/2019 02:28*	WG1228513
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*01/22/2019 16:48*	WG1226460
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*01/26/2019 02:28*	WG1228513

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.5		1	01/23/2019 12:49	WG1226762

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.67 J	J	1.04	3.07	25	01/22/2019 15:44	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-120*		*01/22/2019 15:44*	WG1226536

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0168	0.0307	1	01/22/2019 17:10	WG1226460
Acrylonitrile	U		0.00233	0.0153	1	01/22/2019 17:10	WG1226460
Benzene	U		0.000491	0.00123	1	01/22/2019 17:10	WG1226460
Bromobenzene	U		0.00129	0.0153	1	01/22/2019 17:10	WG1226460
Bromodichloromethane	U		0.000967	0.00307	1	01/22/2019 17:10	WG1226460
Bromochloromethane	U		0.00139	0.00614	1	01/22/2019 17:10	WG1226460
Bromoform	U		0.00734	0.0307	1	01/22/2019 17:10	WG1226460
Bromomethane	U		0.00454	0.0153	1	01/22/2019 17:10	WG1226460
n-Butylbenzene	U		0.00471	0.0153	1	01/22/2019 17:10	WG1226460
sec-Butylbenzene	U		0.00311	0.0153	1	01/22/2019 17:10	WG1226460
tert-Butylbenzene	U		0.00190	0.00614	1	01/22/2019 17:10	WG1226460
Carbon disulfide	U		0.00498	0.0153	1	01/22/2019 17:10	WG1226460
Carbon tetrachloride	U		0.00133	0.00614	1	01/22/2019 17:10	WG1226460
Chlorobenzene	U		0.000703	0.00307	1	01/22/2019 17:10	WG1226460
Chlorodibromomethane	U		0.000552	0.00307	1	01/22/2019 17:10	WG1226460
Chloroethane	U		0.00133	0.00614	1	01/22/2019 17:10	WG1226460
Chloroform	U		0.000509	0.00307	1	01/22/2019 17:10	WG1226460
Chloromethane	U		0.00171	0.0153	1	01/22/2019 17:10	WG1226460
2-Chlorotoluene	U		0.00113	0.00307	1	01/22/2019 17:10	WG1226460
4-Chlorotoluene	U		0.00139	0.00614	1	01/22/2019 17:10	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00626	0.0307	1	01/26/2019 02:49	WG1228513
1,2-Dibromoethane	U		0.000644	0.00307	1	01/22/2019 17:10	WG1226460
Dibromomethane	U		0.00123	0.00614	1	01/22/2019 17:10	WG1226460
1,2-Dichlorobenzene	U		0.00178	0.00614	1	01/22/2019 17:10	WG1226460
1,3-Dichlorobenzene	U		0.00209	0.00614	1	01/22/2019 17:10	WG1226460
1,4-Dichlorobenzene	U		0.00242	0.00614	1	01/22/2019 17:10	WG1226460
Dichlorodifluoromethane	U		0.00100	0.00307	1	01/26/2019 02:49	WG1228513
1,1-Dichloroethane	U		0.000706	0.00307	1	01/22/2019 17:10	WG1226460
1,2-Dichloroethane	U		0.000583	0.00307	1	01/22/2019 17:10	WG1226460
1,1-Dichloroethene	U		0.000614	0.00307	1	01/26/2019 02:49	WG1228513
cis-1,2-Dichloroethene	0.0236		0.000847	0.00307	1	01/26/2019 02:49	WG1228513
trans-1,2-Dichloroethene	U		0.00176	0.00614	1	01/22/2019 17:10	WG1226460
1,2-Dichloropropane	U		0.00156	0.00614	1	01/22/2019 17:10	WG1226460
1,1-Dichloropropene	U		0.000859	0.00307	1	01/22/2019 17:10	WG1226460
1,3-Dichloropropane	U		0.00215	0.00614	1	01/22/2019 17:10	WG1226460
cis-1,3-Dichloropropene	U		0.000832	0.00307	1	01/22/2019 17:10	WG1226460
trans-1,3-Dichloropropene	U		0.00188	0.00614	1	01/22/2019 17:10	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00172	0.00614	1	01/26/2019 02:49	WG1228513
2,2-Dichloropropane	U		0.000973	0.00307	1	01/22/2019 17:10	WG1226460
Di-isopropyl ether	U		0.000430	0.00123	1	01/26/2019 02:49	WG1228513
Ethylbenzene	U		0.000651	0.00307	1	01/22/2019 17:10	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0156	0.0307	1	01/22/2019 17:10	WG1226460
2-Hexanone	U		0.0123	0.0307	1	01/22/2019 17:10	WG1226460
n-Hexane	0.00443 U	~~B J~~	0.00130	0.00614	1	01/22/2019 17:10	WG1226460

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00743	0.0153	1	01/22/2019 17:10	WG1226460
Isopropylbenzene	U		0.00106	0.00307	1	01/22/2019 17:10	WG1226460
p-Isopropyltoluene	U		0.00286	0.00614	1	01/22/2019 17:10	WG1226460
2-Butanone (MEK)	U		0.0153	0.0307	1	01/22/2019 17:10	WG1226460
Methylene Chloride	0.0104 U	~~B J~~	0.00815	0.0307	1	01/22/2019 17:10	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0307	1	01/22/2019 17:10	WG1226460
Methyl tert-butyl ether	U		0.000362	0.00123	1	01/22/2019 17:10	WG1226460
Naphthalene	U		0.00383	0.0153	1	01/26/2019 02:49	WG1228513
n-Propylbenzene	U		0.00145	0.00614	1	01/22/2019 17:10	WG1226460
Styrene	U		0.00335	0.0153	1	01/22/2019 17:10	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000614	0.00307	1	01/22/2019 17:10	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000479	0.00307	1	01/26/2019 02:49	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000829	0.00307	1	01/22/2019 17:10	WG1226460
Tetrachloroethene	0.00173 J	J	0.000859	0.00307	1	01/22/2019 17:10	WG1226460
Toluene	U		0.00153	0.00614	1	01/22/2019 17:10	WG1226460
1,2,3-Trichlorobenzene	U		0.000767	0.00307	1	01/26/2019 02:49	WG1228513
1,2,4-Trichlorobenzene	U		0.00592	0.0153	1	01/22/2019 17:10	WG1226460
1,1,1-Trichloroethane	U		0.000338	0.00307	1	01/22/2019 17:10	WG1226460
1,1,2-Trichloroethane	U		0.00108	0.00307	1	01/22/2019 17:10	WG1226460
Trichloroethene	U		0.000491	0.00123	1	01/22/2019 17:10	WG1226460
Trichlorofluoromethane	U		0.000614	0.00307	1	01/22/2019 17:10	WG1226460
1,2,3-Trichloropropane	U		0.00626	0.0153	1	01/22/2019 17:10	WG1226460
1,2,4-Trimethylbenzene	U		0.00142	0.00614	1	01/22/2019 17:10	WG1226460
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.00141	0.00614	1	01/22/2019 17:10	WG1226460
1,3,5-Trimethylbenzene	U		0.00133	0.00614	1	01/22/2019 17:10	WG1226460
Vinyl acetate	U	~~J4~~	0.00432	0.0153	1	01/22/2019 17:10	WG1226460
Vinyl chloride	U		0.000838	0.00307	1	01/22/2019 17:10	WG1226460
Xylenes, Total	U		0.00587	0.00798	1	01/22/2019 17:10	WG1226460
(S) Toluene-d8	*103*			*75.0-131*		*01/22/2019 17:10*	WG1226460
(S) Toluene-d8	*106*			*75.0-131*		*01/26/2019 02:49*	WG1228513
(S) Dibromofluoromethane	*86.2*			*65.0-129*		*01/22/2019 17:10*	WG1226460
(S) Dibromofluoromethane	*84.7*			*65.0-129*		*01/26/2019 02:49*	WG1228513
(S) a,a,a-Trifluorotoluene	*98.8*			*80.0-120*		*01/22/2019 17:10*	WG1226460
(S) a,a,a-Trifluorotoluene	*108*			*80.0-120*		*01/26/2019 02:49*	WG1228513
(S) 4-Bromofluorobenzene	*95.7*			*67.0-138*		*01/22/2019 17:10*	WG1226460
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*01/26/2019 02:49*	WG1228513

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	71.9		1	01/23/2019 12:49	WG1226762

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.89	J	J	1.18	3.48	25	01/22/2019 16:06	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	*96.9*				*77.0-120*		*01/22/2019 16:06*	WG1226536

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U			0.0191	0.0348	1	01/22/2019 17:33	WG1226460	
Acrylonitrile	U			0.00264	0.0174	1	01/22/2019 17:33	WG1226460	
Benzene	0.000625	J	J	0.000556	0.00139	1	01/22/2019 17:33	WG1226460	
Bromobenzene	U			0.00146	0.0174	1	01/22/2019 17:33	WG1226460	
Bromodichloromethane	U			0.00110	0.00348	1	01/22/2019 17:33	WG1226460	
Bromochloromethane	U			0.00157	0.00695	1	01/22/2019 17:33	WG1226460	
Bromoform	U			0.00832	0.0348	1	01/22/2019 17:33	WG1226460	
Bromomethane	U			0.00515	0.0174	1	01/22/2019 17:33	WG1226460	
n-Butylbenzene	U			0.00534	0.0174	1	01/22/2019 17:33	WG1226460	
sec-Butylbenzene	U			0.00352	0.0174	1	01/22/2019 17:33	WG1226460	
tert-Butylbenzene	U			0.00216	0.00695	1	01/22/2019 17:33	WG1226460	
Carbon disulfide	U			0.00565	0.0174	1	01/22/2019 17:33	WG1226460	
Carbon tetrachloride	U			0.00150	0.00695	1	01/22/2019 17:33	WG1226460	
Chlorobenzene	U			0.000797	0.00348	1	01/22/2019 17:33	WG1226460	
Chlorodibromomethane	U			0.000626	0.00348	1	01/22/2019 17:33	WG1226460	
Chloroethane	U			0.00150	0.00695	1	01/22/2019 17:33	WG1226460	
Chloroform	U			0.000577	0.00348	1	01/22/2019 17:33	WG1226460	
Chloromethane	U			0.00193	0.0174	1	01/22/2019 17:33	WG1226460	
2-Chlorotoluene	U			0.00128	0.00348	1	01/22/2019 17:33	WG1226460	
4-Chlorotoluene	U			0.00157	0.00695	1	01/22/2019 17:33	WG1226460	
1,2-Dibromo-3-Chloropropane	U			0.00709	0.0348	1	01/26/2019 03:09	WG1228513	
1,2-Dibromoethane	U			0.000730	0.00348	1	01/22/2019 17:33	WG1226460	
Dibromomethane	U			0.00139	0.00695	1	01/22/2019 17:33	WG1226460	
1,2-Dichlorobenzene	U			0.00202	0.00695	1	01/22/2019 17:33	WG1226460	
1,3-Dichlorobenzene	U			0.00236	0.00695	1	01/22/2019 17:33	WG1226460	
1,4-Dichlorobenzene	U			0.00274	0.00695	1	01/22/2019 17:33	WG1226460	
Dichlorodifluoromethane	U			0.00114	0.00348	1	01/26/2019 03:09	WG1228513	
1,1-Dichloroethane	U			0.000800	0.00348	1	01/22/2019 17:33	WG1226460	
1,2-Dichloroethane	U			0.000661	0.00348	1	01/22/2019 17:33	WG1226460	
1,1-Dichloroethene	U			0.000695	0.00348	1	01/26/2019 03:09	WG1228513	
cis-1,2-Dichloroethene	0.148			0.000960	0.00348	1	01/26/2019 03:09	WG1228513	
trans-1,2-Dichloroethene	0.00304	J	J	0.00199	0.00695	1	01/22/2019 17:33	WG1226460	
1,2-Dichloropropane	U			0.00177	0.00695	1	01/22/2019 17:33	WG1226460	
1,1-Dichloropropene	U			0.000974	0.00348	1	01/22/2019 17:33	WG1226460	
1,3-Dichloropropane	U			0.00243	0.00695	1	01/22/2019 17:33	WG1226460	
cis-1,3-Dichloropropene	U			0.000943	0.00348	1	01/22/2019 17:33	WG1226460	
trans-1,3-Dichloropropene	U			0.00213	0.00695	1	01/22/2019 17:33	WG1226460	
trans-1,4-Dichloro-2-butene	U			0.00195	0.00695	1	01/26/2019 03:09	WG1228513	
2,2-Dichloropropane	U			0.00110	0.00348	1	01/22/2019 17:33	WG1226460	
Di-isopropyl ether	U			0.000487	0.00139	1	01/26/2019 03:09	WG1228513	
Ethylbenzene	U			0.000737	0.00348	1	01/22/2019 17:33	WG1226460	
Hexachloro-1,3-butadiene	U	UJ	J0	0.0177	0.0348	1	01/22/2019 17:33	WG1226460	
2-Hexanone	U			0.0139	0.0348	1	01/22/2019 17:33	WG1226460	
n-Hexane	0.00361	U	~~BJ~~	0.00147	0.00695	1	01/22/2019 17:33	WG1226460	JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00841	0.0174	1	01/22/2019 17:33	WG1226460
Isopropylbenzene	U		0.00120	0.00348	1	01/22/2019 17:33	WG1226460
p-Isopropyltoluene	U		0.00324	0.00695	1	01/22/2019 17:33	WG1226460
2-Butanone (MEK)	U		0.0174	0.0348	1	01/22/2019 17:33	WG1226460
Methylene Chloride	U		0.00923	0.0348	1	01/22/2019 17:33	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0139	0.0348	1	01/22/2019 17:33	WG1226460
Methyl tert-butyl ether	U		0.000410	0.00139	1	01/22/2019 17:33	WG1226460
Naphthalene	U		0.00434	0.0174	1	01/26/2019 03:09	WG1228513
n-Propylbenzene	U		0.00164	0.00695	1	01/22/2019 17:33	WG1226460
Styrene	U		0.00380	0.0174	1	01/22/2019 17:33	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000695	0.00348	1	01/22/2019 17:33	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000542	0.00348	1	01/26/2019 03:09	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000939	0.00348	1	01/22/2019 17:33	WG1226460
Tetrachloroethene	0.00783		0.000974	0.00348	1	01/22/2019 17:33	WG1226460
Toluene	U		0.00174	0.00695	1	01/22/2019 17:33	WG1226460
1,2,3-Trichlorobenzene	U		0.000869	0.00348	1	01/26/2019 03:09	WG1228513
1,2,4-Trichlorobenzene	U		0.00670	0.0174	1	01/22/2019 17:33	WG1226460
1,1,1-Trichloroethane	U		0.000382	0.00348	1	01/22/2019 17:33	WG1226460
1,1,2-Trichloroethane	U		0.00123	0.00348	1	01/22/2019 17:33	WG1226460
Trichloroethene	0.0922		0.000556	0.00139	1	01/22/2019 17:33	WG1226460
Trichlorofluoromethane	U		0.000695	0.00348	1	01/22/2019 17:33	WG1226460
1,2,3-Trichloropropane	U		0.00709	0.0174	1	01/22/2019 17:33	WG1226460
1,2,4-Trimethylbenzene	U		0.00161	0.00695	1	01/22/2019 17:33	WG1226460
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.00160	0.00695	1	01/22/2019 17:33	WG1226460
1,3,5-Trimethylbenzene	U		0.00150	0.00695	1	01/22/2019 17:33	WG1226460
Vinyl acetate	U	~~J4~~	0.00490	0.0174	1	01/22/2019 17:33	WG1226460
Vinyl chloride	0.0596		0.000950	0.00348	1	01/22/2019 17:33	WG1226460
Xylenes, Total	U		0.00665	0.00904	1	01/22/2019 17:33	WG1226460
(S) Toluene-d8	*103*			*75.0-131*		*01/22/2019 17:33*	WG1226460
(S) Toluene-d8	*105*			*75.0-131*		*01/26/2019 03:09*	WG1228513
(S) Dibromofluoromethane	*86.6*			*65.0-129*		*01/22/2019 17:33*	WG1226460
(S) Dibromofluoromethane	*87.0*			*65.0-129*		*01/26/2019 03:09*	WG1228513
(S) a,a,a-Trifluorotoluene	*99.4*			*80.0-120*		*01/22/2019 17:33*	WG1226460
(S) a,a,a-Trifluorotoluene	*108*			*80.0-120*		*01/26/2019 03:09*	WG1228513
(S) 4-Bromofluorobenzene	*92.3*			*67.0-138*		*01/22/2019 17:33*	WG1226460
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*01/26/2019 03:09*	WG1228513

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B1D1-31
Collected date/time: 01/17/19 10:15

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.9		1	01/23/2019 12:49	WG1226762

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.07 J	J	0.923	2.72	25	01/22/2019 16:27	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*01/22/2019 16:27*	WG1226536

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0149	0.0272	1	01/22/2019 17:55	WG1226460
Acrylonitrile	U		0.00207	0.0136	1	01/22/2019 17:55	WG1226460
Benzene	U		0.000435	0.00109	1	01/22/2019 17:55	WG1226460
Bromobenzene	U		0.00114	0.0136	1	01/22/2019 17:55	WG1226460
Bromodichloromethane	U		0.000858	0.00272	1	01/22/2019 17:55	WG1226460
Bromochloromethane	U		0.00123	0.00544	1	01/22/2019 17:55	WG1226460
Bromoform	U		0.00651	0.0272	1	01/22/2019 17:55	WG1226460
Bromomethane	U		0.00403	0.0136	1	01/22/2019 17:55	WG1226460
n-Butylbenzene	U		0.00418	0.0136	1	01/22/2019 17:55	WG1226460
sec-Butylbenzene	U		0.00275	0.0136	1	01/22/2019 17:55	WG1226460
tert-Butylbenzene	U		0.00169	0.00544	1	01/22/2019 17:55	WG1226460
Carbon disulfide	U		0.00442	0.0136	1	01/22/2019 17:55	WG1226460
Carbon tetrachloride	U		0.00118	0.00544	1	01/22/2019 17:55	WG1226460
Chlorobenzene	U		0.000624	0.00272	1	01/22/2019 17:55	WG1226460
Chlorodibromomethane	U		0.000490	0.00272	1	01/22/2019 17:55	WG1226460
Chloroethane	U		0.00118	0.00544	1	01/22/2019 17:55	WG1226460
Chloroform	U		0.000452	0.00272	1	01/22/2019 17:55	WG1226460
Chloromethane	U		0.00151	0.0136	1	01/22/2019 17:55	WG1226460
2-Chlorotoluene	U		0.00100	0.00272	1	01/22/2019 17:55	WG1226460
4-Chlorotoluene	U		0.00123	0.00544	1	01/22/2019 17:55	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00555	0.0272	1	01/26/2019 03:29	WG1228513
1,2-Dibromoethane	U		0.000571	0.00272	1	01/22/2019 17:55	WG1226460
Dibromomethane	U		0.00109	0.00544	1	01/22/2019 17:55	WG1226460
1,2-Dichlorobenzene	U		0.00158	0.00544	1	01/22/2019 17:55	WG1226460
1,3-Dichlorobenzene	U		0.00185	0.00544	1	01/22/2019 17:55	WG1226460
1,4-Dichlorobenzene	U		0.00214	0.00544	1	01/22/2019 17:55	WG1226460
Dichlorodifluoromethane	U		0.000890	0.00272	1	01/26/2019 03:29	WG1228513
1,1-Dichloroethane	U		0.000626	0.00272	1	01/22/2019 17:55	WG1226460
1,2-Dichloroethane	U		0.000517	0.00272	1	01/22/2019 17:55	WG1226460
1,1-Dichloroethene	U		0.000544	0.00272	1	01/26/2019 03:29	WG1228513
cis-1,2-Dichloroethene	0.0147		0.000751	0.00272	1	01/26/2019 03:29	WG1228513
trans-1,2-Dichloroethene	U		0.00156	0.00544	1	01/22/2019 17:55	WG1226460
1,2-Dichloropropane	U		0.00138	0.00544	1	01/22/2019 17:55	WG1226460
1,1-Dichloropropene	U		0.000762	0.00272	1	01/22/2019 17:55	WG1226460
1,3-Dichloropropane	U		0.00190	0.00544	1	01/22/2019 17:55	WG1226460
cis-1,3-Dichloropropene	U		0.000738	0.00272	1	01/22/2019 17:55	WG1226460
trans-1,3-Dichloropropene	U		0.00166	0.00544	1	01/22/2019 17:55	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00152	0.00544	1	01/26/2019 03:29	WG1228513
2,2-Dichloropropane	U		0.000863	0.00272	1	01/22/2019 17:55	WG1226460
Di-isopropyl ether	U		0.000381	0.00109	1	01/26/2019 03:29	WG1228513
Ethylbenzene	U		0.000577	0.00272	1	01/22/2019 17:55	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0138	0.0272	1	01/22/2019 17:55	WG1226460
2-Hexanone	U		0.0109	0.0272	1	01/22/2019 17:55	WG1226460
n-Hexane	U		0.00115	0.00544	1	01/22/2019 17:55	WG1226460

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00658	0.0136	1	01/22/2019 17:55	WG1226460
Isopropylbenzene	U		0.000939	0.00272	1	01/22/2019 17:55	WG1226460
p-Isopropyltoluene	U		0.00254	0.00544	1	01/22/2019 17:55	WG1226460
2-Butanone (MEK)	U		0.0136	0.0272	1	01/22/2019 17:55	WG1226460
Methylene Chloride	U		0.00723	0.0272	1	01/22/2019 17:55	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	01/22/2019 17:55	WG1226460
Methyl tert-butyl ether	U		0.000321	0.00109	1	01/22/2019 17:55	WG1226460
Naphthalene	U		0.00340	0.0136	1	01/26/2019 03:29	WG1228513
n-Propylbenzene	U		0.00128	0.00544	1	01/22/2019 17:55	WG1226460
Styrene	U		0.00297	0.0136	1	01/22/2019 17:55	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000544	0.00272	1	01/22/2019 17:55	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	01/26/2019 03:29	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000735	0.00272	1	01/22/2019 17:55	WG1226460
Tetrachloroethene	0.0185		0.000762	0.00272	1	01/22/2019 17:55	WG1226460
Toluene	U		0.00136	0.00544	1	01/22/2019 17:55	WG1226460
1,2,3-Trichlorobenzene	U		0.000680	0.00272	1	01/26/2019 03:29	WG1228513
1,2,4-Trichlorobenzene	U		0.00525	0.0136	1	01/22/2019 17:55	WG1226460
1,1,1-Trichloroethane	U		0.000299	0.00272	1	01/22/2019 17:55	WG1226460
1,1,2-Trichloroethane	U		0.000961	0.00272	1	01/22/2019 17:55	WG1226460
Trichloroethene	0.0176		0.000435	0.00109	1	01/22/2019 17:55	WG1226460
Trichlorofluoromethane	U		0.000544	0.00272	1	01/22/2019 17:55	WG1226460
1,2,3-Trichloropropane	U		0.00555	0.0136	1	01/22/2019 17:55	WG1226460
1,2,4-Trimethylbenzene	U		0.00126	0.00544	1	01/22/2019 17:55	WG1226460
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.00125	0.00544	1	01/22/2019 17:55	WG1226460
1,3,5-Trimethylbenzene	U		0.00118	0.00544	1	01/22/2019 17:55	WG1226460
Vinyl acetate	U	~~J4~~	0.00383	0.0136	1	01/22/2019 17:55	WG1226460
Vinyl chloride	0.00468		0.000743	0.00272	1	01/22/2019 17:55	WG1226460
Xylenes, Total	U		0.00520	0.00707	1	01/22/2019 17:55	WG1226460
(S) Toluene-d8	*109*			*75.0-131*		*01/22/2019 17:55*	WG1226460
(S) Toluene-d8	*111*			*75.0-131*		*01/26/2019 03:29*	WG1228513
(S) Dibromofluoromethane	*86.9*			*65.0-129*		*01/22/2019 17:55*	WG1226460
(S) Dibromofluoromethane	*83.0*			*65.0-129*		*01/26/2019 03:29*	WG1228513
(S) a,a,a-Trifluorotoluene	*99.8*			*80.0-120*		*01/22/2019 17:55*	WG1226460
(S) a,a,a-Trifluorotoluene	*104*			*80.0-120*		*01/26/2019 03:29*	WG1228513
(S) 4-Bromofluorobenzene	*94.7*			*67.0-138*		*01/22/2019 17:55*	WG1226460
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*01/26/2019 03:29*	WG1228513

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B1D1-35

Collected date/time: 01/17/19 09:36

SAMPLE RESULTS - 06

L1062825

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.6		1	01/23/2019 12:49	WG1226762

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.05 J	J	1.04	3.06	25	01/22/2019 16:48	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	*99.4*			*77.0-120*		*01/22/2019 16:48*	WG1226536

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0168	0.0306	1	01/22/2019 18:17	WG1226460
Acrylonitrile	U		0.00233	0.0153	1	01/22/2019 18:17	WG1226460
Benzene	U		0.000490	0.00122	1	01/22/2019 18:17	WG1226460
Bromobenzene	U		0.00129	0.0153	1	01/22/2019 18:17	WG1226460
Bromodichloromethane	U		0.000965	0.00306	1	01/22/2019 18:17	WG1226460
Bromochloromethane	U		0.00138	0.00612	1	01/22/2019 18:17	WG1226460
Bromoform	U		0.00732	0.0306	1	01/22/2019 18:17	WG1226460
Bromomethane	U		0.00453	0.0153	1	01/22/2019 18:17	WG1226460
n-Butylbenzene	U		0.00470	0.0153	1	01/22/2019 18:17	WG1226460
sec-Butylbenzene	U		0.00310	0.0153	1	01/22/2019 18:17	WG1226460
tert-Butylbenzene	U		0.00190	0.00612	1	01/22/2019 18:17	WG1226460
Carbon disulfide	U		0.00497	0.0153	1	01/22/2019 18:17	WG1226460
Carbon tetrachloride	U		0.00132	0.00612	1	01/22/2019 18:17	WG1226460
Chlorobenzene	U		0.000702	0.00306	1	01/22/2019 18:17	WG1226460
Chlorodibromomethane	U		0.000551	0.00306	1	01/22/2019 18:17	WG1226460
Chloroethane	U		0.00132	0.00612	1	01/22/2019 18:17	WG1226460
Chloroform	U		0.000508	0.00306	1	01/22/2019 18:17	WG1226460
Chloromethane	U		0.00170	0.0153	1	01/22/2019 18:17	WG1226460
2-Chlorotoluene	U		0.00113	0.00306	1	01/22/2019 18:17	WG1226460
4-Chlorotoluene	U		0.00138	0.00612	1	01/22/2019 18:17	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00625	0.0306	1	01/26/2019 03:49	WG1228513
1,2-Dibromoethane	U		0.000643	0.00306	1	01/22/2019 18:17	WG1226460
Dibromomethane	U		0.00122	0.00612	1	01/22/2019 18:17	WG1226460
1,2-Dichlorobenzene	U		0.00178	0.00612	1	01/22/2019 18:17	WG1226460
1,3-Dichlorobenzene	U		0.00208	0.00612	1	01/22/2019 18:17	WG1226460
1,4-Dichlorobenzene	U		0.00241	0.00612	1	01/22/2019 18:17	WG1226460
Dichlorodifluoromethane	U		0.00100	0.00306	1	01/26/2019 03:49	WG1228513
1,1-Dichloroethane	U		0.000704	0.00306	1	01/22/2019 18:17	WG1226460
1,2-Dichloroethane	U		0.000582	0.00306	1	01/22/2019 18:17	WG1226460
1,1-Dichloroethene	U		0.000612	0.00306	1	01/26/2019 03:49	WG1228513
cis-1,2-Dichloroethene	0.0194		0.000845	0.00306	1	01/26/2019 03:49	WG1228513
trans-1,2-Dichloroethene	U		0.00175	0.00612	1	01/22/2019 18:17	WG1226460
1,2-Dichloropropane	U		0.00156	0.00612	1	01/22/2019 18:17	WG1226460
1,1-Dichloropropene	U		0.000857	0.00306	1	01/22/2019 18:17	WG1226460
1,3-Dichloropropane	U		0.00214	0.00612	1	01/22/2019 18:17	WG1226460
cis-1,3-Dichloropropene	U		0.000830	0.00306	1	01/22/2019 18:17	WG1226460
trans-1,3-Dichloropropene	U		0.00187	0.00612	1	01/22/2019 18:17	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00171	0.00612	1	01/26/2019 03:49	WG1228513
2,2-Dichloropropane	U		0.000971	0.00306	1	01/22/2019 18:17	WG1226460
Di-isopropyl ether	U		0.000429	0.00122	1	01/26/2019 03:49	WG1228513
Ethylbenzene	U		0.000649	0.00306	1	01/22/2019 18:17	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0156	0.0306	1	01/22/2019 18:17	WG1226460
2-Hexanone	U		0.0122	0.0306	1	01/22/2019 18:17	WG1226460
n-Hexane	0.00186 U	~~B J~~	0.00130	0.00612	1	01/22/2019 18:17	WG1226460

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Iodomethane	U		0.00741	0.0153	1	01/22/2019 18:17	WG1226460
Isopropylbenzene	U		0.00106	0.00306	1	01/22/2019 18:17	WG1226460
p-Isopropyltoluene	U		0.00285	0.00612	1	01/22/2019 18:17	WG1226460
2-Butanone (MEK)	U		0.0153	0.0306	1	01/22/2019 18:17	WG1226460
Methylene Chloride	U		0.00813	0.0306	1	01/22/2019 18:17	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0306	1	01/22/2019 18:17	WG1226460
Methyl tert-butyl ether	U		0.000361	0.00122	1	01/22/2019 18:17	WG1226460
Naphthalene	U		0.00382	0.0153	1	01/26/2019 03:49	WG1228513
n-Propylbenzene	U		0.00145	0.00612	1	01/22/2019 18:17	WG1226460
Styrene	U		0.00334	0.0153	1	01/22/2019 18:17	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000612	0.00306	1	01/22/2019 18:17	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000478	0.00306	1	01/26/2019 03:49	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000827	0.00306	1	01/22/2019 18:17	WG1226460
Tetrachloroethene	0.0505		0.000857	0.00306	1	01/22/2019 18:17	WG1226460
Toluene	U		0.00153	0.00612	1	01/22/2019 18:17	WG1226460
1,2,3-Trichlorobenzene	U		0.000766	0.00306	1	01/26/2019 03:49	WG1228513
1,2,4-Trichlorobenzene	U		0.00590	0.0153	1	01/22/2019 18:17	WG1226460
1,1,1-Trichloroethane	U		0.000337	0.00306	1	01/22/2019 18:17	WG1226460
1,1,2-Trichloroethane	U		0.00108	0.00306	1	01/22/2019 18:17	WG1226460
Trichloroethene	0.0219		0.000490	0.00122	1	01/22/2019 18:17	WG1226460
Trichlorofluoromethane	U		0.000612	0.00306	1	01/22/2019 18:17	WG1226460
1,2,3-Trichloropropane	U		0.00625	0.0153	1	01/22/2019 18:17	WG1226460
1,2,4-Trimethylbenzene	U		0.00142	0.00612	1	01/22/2019 18:17	WG1226460
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.00141	0.00612	1	01/22/2019 18:17	WG1226460
1,3,5-Trimethylbenzene	U		0.00132	0.00612	1	01/22/2019 18:17	WG1226460
Vinyl acetate	U	~~J4~~	0.00431	0.0153	1	01/22/2019 18:17	WG1226460
Vinyl chloride	U		0.000837	0.00306	1	01/22/2019 18:17	WG1226460
Xylenes, Total	U		0.00585	0.00796	1	01/22/2019 18:17	WG1226460
(S) Toluene-d8	*107*			*75.0-131*		*01/22/2019 18:17*	WG1226460
(S) Toluene-d8	*112*			*75.0-131*		*01/26/2019 03:49*	WG1228513
(S) Dibromofluoromethane	*88.4*			*65.0-129*		*01/22/2019 18:17*	WG1226460
(S) Dibromofluoromethane	*86.0*			*65.0-129*		*01/26/2019 03:49*	WG1228513
(S) a,a,a-Trifluorotoluene	*99.7*			*80.0-120*		*01/22/2019 18:17*	WG1226460
(S) a,a,a-Trifluorotoluene	*104*			*80.0-120*		*01/26/2019 03:49*	WG1228513
(S) 4-Bromofluorobenzene	*90.3*			*67.0-138*		*01/22/2019 18:17*	WG1226460
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*01/26/2019 03:49*	WG1228513

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.5		1	01/23/2019 12:49	WG1226762

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	0.969	J J	0.948	2.79	25	01/22/2019 17:09	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*77.0-120*		*01/22/2019 17:09*	WG1226536

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0153	0.0279	1	01/22/2019 18:39	WG1226460
Acrylonitrile	U		0.00212	0.0140	1	01/22/2019 18:39	WG1226460
Benzene	U		0.000447	0.00112	1	01/22/2019 18:39	WG1226460
Bromobenzene	U		0.00117	0.0140	1	01/22/2019 18:39	WG1226460
Bromodichloromethane	U		0.000881	0.00279	1	01/22/2019 18:39	WG1226460
Bromochloromethane	U		0.00126	0.00559	1	01/22/2019 18:39	WG1226460
Bromoform	U		0.00668	0.0279	1	01/22/2019 18:39	WG1226460
Bromomethane	U		0.00414	0.0140	1	01/22/2019 18:39	WG1226460
n-Butylbenzene	U		0.00429	0.0140	1	01/22/2019 18:39	WG1226460
sec-Butylbenzene	U		0.00283	0.0140	1	01/22/2019 18:39	WG1226460
tert-Butylbenzene	U		0.00173	0.00559	1	01/22/2019 18:39	WG1226460
Carbon disulfide	U		0.00454	0.0140	1	01/22/2019 18:39	WG1226460
Carbon tetrachloride	U		0.00121	0.00559	1	01/22/2019 18:39	WG1226460
Chlorobenzene	U		0.000641	0.00279	1	01/22/2019 18:39	WG1226460
Chlorodibromomethane	U		0.000503	0.00279	1	01/22/2019 18:39	WG1226460
Chloroethane	U		0.00121	0.00559	1	01/22/2019 18:39	WG1226460
Chloroform	U		0.000464	0.00279	1	01/22/2019 18:39	WG1226460
Chloromethane	U		0.00155	0.0140	1	01/22/2019 18:39	WG1226460
2-Chlorotoluene	U		0.00103	0.00279	1	01/22/2019 18:39	WG1226460
4-Chlorotoluene	U		0.00126	0.00559	1	01/22/2019 18:39	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0279	1	01/26/2019 04:10	WG1228513
1,2-Dibromoethane	U		0.000587	0.00279	1	01/22/2019 18:39	WG1226460
Dibromomethane	U		0.00112	0.00559	1	01/22/2019 18:39	WG1226460
1,2-Dichlorobenzene	U		0.00162	0.00559	1	01/22/2019 18:39	WG1226460
1,3-Dichlorobenzene	U		0.00190	0.00559	1	01/22/2019 18:39	WG1226460
1,4-Dichlorobenzene	U		0.00220	0.00559	1	01/22/2019 18:39	WG1226460
Dichlorodifluoromethane	U		0.000914	0.00279	1	01/26/2019 04:10	WG1228513
1,1-Dichloroethane	U		0.000643	0.00279	1	01/22/2019 18:39	WG1226460
1,2-Dichloroethane	U		0.000531	0.00279	1	01/22/2019 18:39	WG1226460
1,1-Dichloroethene	U		0.000559	0.00279	1	01/26/2019 04:10	WG1228513
cis-1,2-Dichloroethene	0.0157		0.000771	0.00279	1	01/26/2019 04:10	WG1228513
trans-1,2-Dichloroethene	U		0.00160	0.00559	1	01/22/2019 18:39	WG1226460
1,2-Dichloropropane	U		0.00142	0.00559	1	01/22/2019 18:39	WG1226460
1,1-Dichloropropene	U		0.000783	0.00279	1	01/22/2019 18:39	WG1226460
1,3-Dichloropropane	U		0.00196	0.00559	1	01/22/2019 18:39	WG1226460
cis-1,3-Dichloropropene	U		0.000758	0.00279	1	01/22/2019 18:39	WG1226460
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	01/22/2019 18:39	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00157	0.00559	1	01/26/2019 04:10	WG1228513
2,2-Dichloropropane	U		0.000886	0.00279	1	01/22/2019 18:39	WG1226460
Di-isopropyl ether	U		0.000391	0.00112	1	01/26/2019 04:10	WG1228513
Ethylbenzene	U		0.000592	0.00279	1	01/22/2019 18:39	WG1226460
Hexachloro-1,3-butadiene	U	UJ J0	0.0142	0.0279	1	01/22/2019 18:39	WG1226460
2-Hexanone	U		0.0112	0.0279	1	01/22/2019 18:39	WG1226460
n-Hexane	0.00244	U ~~B J~~	0.00118	0.00559	1	01/22/2019 18:39	WG1226460

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00676	0.0140	1	01/22/2019 18:39	WG1226460
Isopropylbenzene	U		0.000965	0.00279	1	01/22/2019 18:39	WG1226460
p-Isopropyltoluene	U		0.00260	0.00559	1	01/22/2019 18:39	WG1226460
2-Butanone (MEK)	U		0.0140	0.0279	1	01/22/2019 18:39	WG1226460
Methylene Chloride	U		0.00742	0.0279	1	01/22/2019 18:39	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	01/22/2019 18:39	WG1226460
Methyl tert-butyl ether	U		0.000330	0.00112	1	01/22/2019 18:39	WG1226460
Naphthalene	U		0.00349	0.0140	1	01/26/2019 04:10	WG1228513
n-Propylbenzene	U		0.00132	0.00559	1	01/22/2019 18:39	WG1226460
Styrene	U		0.00305	0.0140	1	01/22/2019 18:39	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000559	0.00279	1	01/22/2019 18:39	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000436	0.00279	1	01/26/2019 04:10	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000755	0.00279	1	01/22/2019 18:39	WG1226460
Tetrachloroethene	0.123		0.000783	0.00279	1	01/22/2019 18:39	WG1226460
Toluene	U		0.00140	0.00559	1	01/22/2019 18:39	WG1226460
1,2,3-Trichlorobenzene	U		0.000699	0.00279	1	01/26/2019 04:10	WG1228513
1,2,4-Trichlorobenzene	U		0.00539	0.0140	1	01/22/2019 18:39	WG1226460
1,1,1-Trichloroethane	U		0.000307	0.00279	1	01/22/2019 18:39	WG1226460
1,1,2-Trichloroethane	U		0.000987	0.00279	1	01/22/2019 18:39	WG1226460
Trichloroethene	0.0284		0.000447	0.00112	1	01/22/2019 18:39	WG1226460
Trichlorofluoromethane	U		0.000559	0.00279	1	01/22/2019 18:39	WG1226460
1,2,3-Trichloropropane	U		0.00570	0.0140	1	01/22/2019 18:39	WG1226460
1,2,4-Trimethylbenzene	U		0.00130	0.00559	1	01/22/2019 18:39	WG1226460
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.00129	0.00559	1	01/22/2019 18:39	WG1226460
1,3,5-Trimethylbenzene	U		0.00121	0.00559	1	01/22/2019 18:39	WG1226460
Vinyl acetate	U	~~J4~~	0.00393	0.0140	1	01/22/2019 18:39	WG1226460
Vinyl chloride	U		0.000764	0.00279	1	01/22/2019 18:39	WG1226460
Xylenes, Total	U		0.00534	0.00727	1	01/22/2019 18:39	WG1226460
(S) Toluene-d8	*107*			*75.0-131*		*01/22/2019 18:39*	WG1226460
(S) Toluene-d8	*112*			*75.0-131*		*01/26/2019 04:10*	WG1228513
(S) Dibromofluoromethane	*88.2*			*65.0-129*		*01/22/2019 18:39*	WG1226460
(S) Dibromofluoromethane	*84.0*			*65.0-129*		*01/26/2019 04:10*	WG1228513
(S) a,a,a-Trifluorotoluene	*98.3*			*80.0-120*		*01/22/2019 18:39*	WG1226460
(S) a,a,a-Trifluorotoluene	*101*			*80.0-120*		*01/26/2019 04:10*	WG1228513
(S) 4-Bromofluorobenzene	*94.8*			*67.0-138*		*01/22/2019 18:39*	WG1226460
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/26/2019 04:10*	WG1228513

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.4		1	01/23/2019 11:13	WG1226766

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.18 J	J	0.971	2.86	25	01/22/2019 17:30	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	*94.6*			*77.0-120*		*01/22/2019 17:30*	WG1226536

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0286	1	01/22/2019 19:02	WG1226460
Acrylonitrile	U		0.00217	0.0143	1	01/22/2019 19:02	WG1226460
Benzene	U		0.000458	0.00114	1	01/22/2019 19:02	WG1226460
Bromobenzene	U		0.00120	0.0143	1	01/22/2019 19:02	WG1226460
Bromodichloromethane	U		0.000902	0.00286	1	01/22/2019 19:02	WG1226460
Bromochloromethane	U		0.00129	0.00572	1	01/22/2019 19:02	WG1226460
Bromoform	U		0.00684	0.0286	1	01/22/2019 19:02	WG1226460
Bromomethane	U		0.00423	0.0143	1	01/22/2019 19:02	WG1226460
n-Butylbenzene	U		0.00439	0.0143	1	01/22/2019 19:02	WG1226460
sec-Butylbenzene	U		0.00290	0.0143	1	01/22/2019 19:02	WG1226460
tert-Butylbenzene	U		0.00177	0.00572	1	01/22/2019 19:02	WG1226460
Carbon disulfide	U		0.00465	0.0143	1	01/22/2019 19:02	WG1226460
Carbon tetrachloride	U		0.00124	0.00572	1	01/22/2019 19:02	WG1226460
Chlorobenzene	U		0.000656	0.00286	1	01/22/2019 19:02	WG1226460
Chlorodibromomethane	U		0.000515	0.00286	1	01/22/2019 19:02	WG1226460
Chloroethane	U		0.00124	0.00572	1	01/22/2019 19:02	WG1226460
Chloroform	U		0.000475	0.00286	1	01/22/2019 19:02	WG1226460
Chloromethane	U		0.00159	0.0143	1	01/22/2019 19:02	WG1226460
2-Chlorotoluene	U		0.00105	0.00286	1	01/22/2019 19:02	WG1226460
4-Chlorotoluene	U		0.00129	0.00572	1	01/22/2019 19:02	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00584	0.0286	1	01/26/2019 04:30	WG1228513
1,2-Dibromoethane	U		0.000601	0.00286	1	01/22/2019 19:02	WG1226460
Dibromomethane	U		0.00114	0.00572	1	01/22/2019 19:02	WG1226460
1,2-Dichlorobenzene	U		0.00166	0.00572	1	01/22/2019 19:02	WG1226460
1,3-Dichlorobenzene	U		0.00195	0.00572	1	01/22/2019 19:02	WG1226460
1,4-Dichlorobenzene	U		0.00225	0.00572	1	01/22/2019 19:02	WG1226460
Dichlorodifluoromethane	U		0.000936	0.00286	1	01/26/2019 04:30	WG1228513
1,1-Dichloroethane	U		0.000658	0.00286	1	01/22/2019 19:02	WG1226460
1,2-Dichloroethane	U		0.000544	0.00286	1	01/22/2019 19:02	WG1226460
1,1-Dichloroethene	U		0.000572	0.00286	1	01/26/2019 04:30	WG1228513
cis-1,2-Dichloroethene	0.0852		0.000790	0.00286	1	01/26/2019 04:30	WG1228513
trans-1,2-Dichloroethene	U		0.00164	0.00572	1	01/22/2019 19:02	WG1226460
1,2-Dichloropropane	U		0.00145	0.00572	1	01/22/2019 19:02	WG1226460
1,1-Dichloropropene	U		0.000801	0.00286	1	01/22/2019 19:02	WG1226460
1,3-Dichloropropane	U		0.00200	0.00572	1	01/22/2019 19:02	WG1226460
cis-1,3-Dichloropropene	U		0.000776	0.00286	1	01/22/2019 19:02	WG1226460
trans-1,3-Dichloropropene	U		0.00175	0.00572	1	01/22/2019 19:02	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00160	0.00572	1	01/26/2019 04:30	WG1228513
2,2-Dichloropropane	U		0.000908	0.00286	1	01/22/2019 19:02	WG1226460
Di-isopropyl ether	U		0.000401	0.00114	1	01/26/2019 04:30	WG1228513
Ethylbenzene	U		0.000607	0.00286	1	01/22/2019 19:02	WG1226460
Hexachloro-1,3-butadiene	U UJ	J0	0.0145	0.0286	1	01/22/2019 19:02	WG1226460
2-Hexanone	U		0.0114	0.0286	1	01/22/2019 19:02	WG1226460
n-Hexane	U		0.00121	0.00572	1	01/22/2019 19:02	WG1226460

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00692	0.0143	1	01/22/2019 19:02	WG1226460
Isopropylbenzene	U		0.000988	0.00286	1	01/22/2019 19:02	WG1226460
p-Isopropyltoluene	U		0.00267	0.00572	1	01/22/2019 19:02	WG1226460
2-Butanone (MEK)	U		0.0143	0.0286	1	01/22/2019 19:02	WG1226460
Methylene Chloride	U		0.00760	0.0286	1	01/22/2019 19:02	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	01/22/2019 19:02	WG1226460
Methyl tert-butyl ether	U		0.000338	0.00114	1	01/22/2019 19:02	WG1226460
Naphthalene	U		0.00357	0.0143	1	01/26/2019 04:30	WG1228513
n-Propylbenzene	U		0.00135	0.00572	1	01/22/2019 19:02	WG1226460
Styrene	U		0.00312	0.0143	1	01/22/2019 19:02	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000572	0.00286	1	01/22/2019 19:02	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1	01/26/2019 04:30	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000773	0.00286	1	01/22/2019 19:02	WG1226460
Tetrachloroethene	0.478		0.000801	0.00286	1	01/22/2019 19:02	WG1226460
Toluene	U		0.00143	0.00572	1	01/22/2019 19:02	WG1226460
1,2,3-Trichlorobenzene	U		0.000715	0.00286	1	01/26/2019 04:30	WG1228513
1,2,4-Trichlorobenzene	U		0.00552	0.0143	1	01/22/2019 19:02	WG1226460
1,1,1-Trichloroethane	U		0.000315	0.00286	1	01/22/2019 19:02	WG1226460
1,1,2-Trichloroethane	U		0.00101	0.00286	1	01/22/2019 19:02	WG1226460
Trichloroethene	0.139		0.000458	0.00114	1	01/22/2019 19:02	WG1226460
Trichlorofluoromethane	U		0.000572	0.00286	1	01/22/2019 19:02	WG1226460
1,2,3-Trichloropropane	U		0.00584	0.0143	1	01/22/2019 19:02	WG1226460
1,2,4-Trimethylbenzene	U		0.00133	0.00572	1	01/22/2019 19:02	WG1226460
1,2,3-Trimethylbenzene	U	UJ J0 J4	0.00132	0.00572	1	01/22/2019 19:02	WG1226460
1,3,5-Trimethylbenzene	U		0.00124	0.00572	1	01/22/2019 19:02	WG1226460
Vinyl acetate	U	~~J4~~	0.00403	0.0143	1	01/22/2019 19:02	WG1226460
Vinyl chloride	0.000989	J J	0.000782	0.00286	1	01/22/2019 19:02	WG1226460
Xylenes, Total	U		0.00547	0.00744	1	01/22/2019 19:02	WG1226460
(S) Toluene-d8	*107*			*75.0-131*		*01/22/2019 19:02*	WG1226460
(S) Toluene-d8	*109*			*75.0-131*		*01/26/2019 04:30*	WG1228513
(S) Dibromofluoromethane	*87.8*			*65.0-129*		*01/22/2019 19:02*	WG1226460
(S) Dibromofluoromethane	*83.7*			*65.0-129*		*01/26/2019 04:30*	WG1228513
(S) a,a,a-Trifluorotoluene	*101*			*80.0-120*		*01/22/2019 19:02*	WG1226460
(S) a,a,a-Trifluorotoluene	*110*			*80.0-120*		*01/26/2019 04:30*	WG1228513
(S) 4-Bromofluorobenzene	*92.3*			*67.0-138*		*01/22/2019 19:02*	WG1226460
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*01/26/2019 04:30*	WG1228513

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.6		1	01/23/2019 11:13	WG1226766

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.69	J	J	0.979	2.89	25	01/22/2019 17:52	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	*97.5*				*77.0-120*		*01/22/2019 17:52*	WG1226536

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0158	0.0289	1	01/22/2019 19:24	WG1226460
Acrylonitrile	U			0.00219	0.0144	1	01/22/2019 19:24	WG1226460
Benzene	U			0.000462	0.00116	1	01/22/2019 19:24	WG1226460
Bromobenzene	U			0.00121	0.0144	1	01/22/2019 19:24	WG1226460
Bromodichloromethane	U			0.000910	0.00289	1	01/22/2019 19:24	WG1226460
Bromochloromethane	U			0.00131	0.00578	1	01/22/2019 19:24	WG1226460
Bromoform	U			0.00691	0.0289	1	01/22/2019 19:24	WG1226460
Bromomethane	U			0.00427	0.0144	1	01/22/2019 19:24	WG1226460
n-Butylbenzene	U			0.00444	0.0144	1	01/22/2019 19:24	WG1226460
sec-Butylbenzene	U			0.00292	0.0144	1	01/22/2019 19:24	WG1226460
tert-Butylbenzene	U			0.00179	0.00578	1	01/22/2019 19:24	WG1226460
Carbon disulfide	U			0.00469	0.0144	1	01/22/2019 19:24	WG1226460
Carbon tetrachloride	U			0.00125	0.00578	1	01/22/2019 19:24	WG1226460
Chlorobenzene	U			0.000662	0.00289	1	01/22/2019 19:24	WG1226460
Chlorodibromomethane	U			0.000520	0.00289	1	01/22/2019 19:24	WG1226460
Chloroethane	U			0.00125	0.00578	1	01/22/2019 19:24	WG1226460
Chloroform	U			0.000479	0.00289	1	01/22/2019 19:24	WG1226460
Chloromethane	U			0.00161	0.0144	1	01/22/2019 19:24	WG1226460
2-Chlorotoluene	U			0.00106	0.00289	1	01/22/2019 19:24	WG1226460
4-Chlorotoluene	U			0.00131	0.00578	1	01/22/2019 19:24	WG1226460
1,2-Dibromo-3-Chloropropane	U			0.00589	0.0289	1	01/26/2019 04:50	WG1228513
1,2-Dibromoethane	U			0.000606	0.00289	1	01/22/2019 19:24	WG1226460
Dibromomethane	U			0.00116	0.00578	1	01/22/2019 19:24	WG1226460
1,2-Dichlorobenzene	U			0.00167	0.00578	1	01/22/2019 19:24	WG1226460
1,3-Dichlorobenzene	U			0.00196	0.00578	1	01/22/2019 19:24	WG1226460
1,4-Dichlorobenzene	U			0.00228	0.00578	1	01/22/2019 19:24	WG1226460
Dichlorodifluoromethane	U			0.000945	0.00289	1	01/26/2019 04:50	WG1228513
1,1-Dichloroethane	U			0.000664	0.00289	1	01/22/2019 19:24	WG1226460
1,2-Dichloroethane	U			0.000549	0.00289	1	01/22/2019 19:24	WG1226460
1,1-Dichloroethene	U			0.000578	0.00289	1	01/26/2019 04:50	WG1228513
cis-1,2-Dichloroethene	0.199			0.000797	0.00289	1	01/26/2019 04:50	WG1228513
trans-1,2-Dichloroethene	0.00268	J	J	0.00165	0.00578	1	01/22/2019 19:24	WG1226460
1,2-Dichloropropane	U			0.00147	0.00578	1	01/22/2019 19:24	WG1226460
1,1-Dichloropropene	U			0.000809	0.00289	1	01/22/2019 19:24	WG1226460
1,3-Dichloropropane	U			0.00202	0.00578	1	01/22/2019 19:24	WG1226460
cis-1,3-Dichloropropene	U			0.000783	0.00289	1	01/22/2019 19:24	WG1226460
trans-1,3-Dichloropropene	U			0.00177	0.00578	1	01/22/2019 19:24	WG1226460
trans-1,4-Dichloro-2-butene	U			0.00162	0.00578	1	01/26/2019 04:50	WG1228513
2,2-Dichloropropane	U			0.000916	0.00289	1	01/22/2019 19:24	WG1226460
Di-isopropyl ether	U			0.000404	0.00116	1	01/26/2019 04:50	WG1228513
Ethylbenzene	U			0.000612	0.00289	1	01/22/2019 19:24	WG1226460
Hexachloro-1,3-butadiene	U	UJ	J0	0.0147	0.0289	1	01/22/2019 19:24	WG1226460
2-Hexanone	U			0.0116	0.0289	1	01/22/2019 19:24	WG1226460
n-Hexane	0.00283	U	~~B J~~	0.00122	0.00578	1	01/22/2019 19:24	WG1226460

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U			0.00699	0.0144	1	01/22/2019 19:24	WG1226460
Isopropylbenzene	U			0.000997	0.00289	1	01/22/2019 19:24	WG1226460
p-Isopropyltoluene	U			0.00269	0.00578	1	01/22/2019 19:24	WG1226460
2-Butanone (MEK)	U			0.0144	0.0289	1	01/22/2019 19:24	WG1226460
Methylene Chloride	U			0.00767	0.0289	1	01/22/2019 19:24	WG1226460
4-Methyl-2-pentanone (MIBK)	U			0.0116	0.0289	1	01/22/2019 19:24	WG1226460
Methyl tert-butyl ether	U			0.000341	0.00116	1	01/22/2019 19:24	WG1226460
Naphthalene	U			0.00360	0.0144	1	01/26/2019 04:50	WG1228513
n-Propylbenzene	U			0.00136	0.00578	1	01/22/2019 19:24	WG1226460
Styrene	U			0.00315	0.0144	1	01/22/2019 19:24	WG1226460
1,1,1,2-Tetrachloroethane	U			0.000578	0.00289	1	01/22/2019 19:24	WG1226460
1,1,2,2-Tetrachloroethane	U			0.000450	0.00289	1	01/26/2019 04:50	WG1228513
1,1,2-Trichlorotrifluoroethane	U			0.000780	0.00289	1	01/22/2019 19:24	WG1226460
Tetrachloroethene	1.71			0.000809	0.00289	1	01/22/2019 19:24	WG1226460
Toluene	U			0.00144	0.00578	1	01/22/2019 19:24	WG1226460
1,2,3-Trichlorobenzene	U			0.000722	0.00289	1	01/26/2019 04:50	WG1228513
1,2,4-Trichlorobenzene	U			0.00557	0.0144	1	01/22/2019 19:24	WG1226460
1,1,1-Trichloroethane	U			0.000318	0.00289	1	01/22/2019 19:24	WG1226460
1,1,2-Trichloroethane	U			0.00102	0.00289	1	01/22/2019 19:24	WG1226460
Trichloroethene	0.274			0.000462	0.00116	1	01/22/2019 19:24	WG1226460
Trichlorofluoromethane	U			0.000578	0.00289	1	01/22/2019 19:24	WG1226460
1,2,3-Trichloropropane	U			0.00589	0.0144	1	01/22/2019 19:24	WG1226460
1,2,4-Trimethylbenzene	U			0.00134	0.00578	1	01/22/2019 19:24	WG1226460
1,2,3-Trimethylbenzene	U	UJ	J0 J4	0.00133	0.00578	1	01/22/2019 19:24	WG1226460
1,3,5-Trimethylbenzene	U			0.00125	0.00578	1	01/22/2019 19:24	WG1226460
Vinyl acetate	U		~~J4~~	0.00407	0.0144	1	01/22/2019 19:24	WG1226460
Vinyl chloride	0.00154	J	J	0.000789	0.00289	1	01/22/2019 19:24	WG1226460
Xylenes, Total	U			0.00552	0.00751	1	01/22/2019 19:24	WG1226460
(S) Toluene-d8	*106*				*75.0-131*		*01/22/2019 19:24*	WG1226460
(S) Toluene-d8	*110*				*75.0-131*		*01/26/2019 04:50*	WG1228513
(S) Dibromofluoromethane	*85.8*				*65.0-129*		*01/22/2019 19:24*	WG1226460
(S) Dibromofluoromethane	*83.2*				*65.0-129*		*01/26/2019 04:50*	WG1228513
(S) a,a,a-Trifluorotoluene	*99.3*				*80.0-120*		*01/22/2019 19:24*	WG1226460
(S) a,a,a-Trifluorotoluene	*109*				*80.0-120*		*01/26/2019 04:50*	WG1228513
(S) 4-Bromofluorobenzene	*95.9*				*67.0-138*		*01/22/2019 19:24*	WG1226460
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*01/26/2019 04:50*	WG1228513

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	68.7		1	01/24/2019 17:02	WG1227645

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0265	U	~~B J~~	0.0231	0.0422	1.16	01/24/2019 20:24	WG1228076
Acrylonitrile	U			0.00320	0.0211	1.16	01/24/2019 20:24	WG1228076
Benzene	0.141			0.000675	0.00169	1.16	01/24/2019 20:24	WG1228076
Bromobenzene	U			0.00178	0.0211	1.16	01/24/2019 20:24	WG1228076
Bromodichloromethane	U			0.00133	0.00422	1.16	01/24/2019 20:24	WG1228076
Bromochloromethane	U			0.00191	0.00844	1.16	01/24/2019 20:24	WG1228076
Bromoform	U	UJ	J0	0.0101	0.0422	1.16	01/24/2019 20:24	WG1228076
Bromomethane	U			0.00624	0.0211	1.16	01/24/2019 20:24	WG1228076
n-Butylbenzene	U			0.00648	0.0211	1.16	01/24/2019 20:24	WG1228076
sec-Butylbenzene	U			0.00426	0.0211	1.16	01/24/2019 20:24	WG1228076
tert-Butylbenzene	U			0.00262	0.00844	1.16	01/24/2019 20:24	WG1228076
Carbon disulfide	U			0.00685	0.0211	1.16	01/24/2019 20:24	WG1228076
Carbon tetrachloride	U			0.00182	0.00844	1.16	01/24/2019 20:24	WG1228076
Chlorobenzene	U			0.000968	0.00422	1.16	01/24/2019 20:24	WG1228076
Chlorodibromomethane	U			0.000760	0.00422	1.16	01/24/2019 20:24	WG1228076
Chloroethane	U			0.00182	0.00844	1.16	01/24/2019 20:24	WG1228076
Chloroform	U			0.000700	0.00422	1.16	01/24/2019 20:24	WG1228076
Chloromethane	U			0.00234	0.0211	1.16	01/24/2019 20:24	WG1228076
2-Chlorotoluene	U			0.00156	0.00422	1.16	01/24/2019 20:24	WG1228076
4-Chlorotoluene	U			0.00191	0.00844	1.16	01/24/2019 20:24	WG1228076
1,2-Dibromo-3-Chloropropane	U			0.00861	0.0422	1.16	01/26/2019 05:10	WG1228359
1,2-Dibromoethane	U			0.000886	0.00422	1.16	01/24/2019 20:24	WG1228076
Dibromomethane	U			0.00169	0.00844	1.16	01/24/2019 20:24	WG1228076
1,2-Dichlorobenzene	U			0.00244	0.00844	1.16	01/24/2019 20:24	WG1228076
1,3-Dichlorobenzene	U			0.00287	0.00844	1.16	01/24/2019 20:24	WG1228076
1,4-Dichlorobenzene	U			0.00332	0.00844	1.16	01/24/2019 20:24	WG1228076
Dichlorodifluoromethane	U			0.00138	0.00422	1.16	01/26/2019 05:10	WG1228359
1,1-Dichloroethane	U			0.000971	0.00422	1.16	01/24/2019 20:24	WG1228076
1,2-Dichloroethane	U			0.000802	0.00422	1.16	01/24/2019 20:24	WG1228076
1,1-Dichloroethene	U			0.000844	0.00422	1.16	01/26/2019 05:10	WG1228359
cis-1,2-Dichloroethene	U			0.00116	0.00422	1.16	01/26/2019 05:10	WG1228359
trans-1,2-Dichloroethene	U			0.00242	0.00844	1.16	01/24/2019 20:24	WG1228076
1,2-Dichloropropane	U			0.00214	0.00844	1.16	01/24/2019 20:24	WG1228076
1,1-Dichloropropene	U			0.00118	0.00422	1.16	01/24/2019 20:24	WG1228076
1,3-Dichloropropane	U			0.00295	0.00844	1.16	01/24/2019 20:24	WG1228076
cis-1,3-Dichloropropene	U			0.00114	0.00422	1.16	01/24/2019 20:24	WG1228076
trans-1,3-Dichloropropene	U			0.00258	0.00844	1.16	01/24/2019 20:24	WG1228076
trans-1,4-Dichloro-2-butene	U			0.00236	0.00844	1.16	01/26/2019 05:10	WG1228359
2,2-Dichloropropane	U			0.00134	0.00422	1.16	01/24/2019 20:24	WG1228076
Di-isopropyl ether	U			0.000591	0.00169	1.16	01/26/2019 05:10	WG1228359
Ethylbenzene	0.00160	J	J	0.000895	0.00422	1.16	01/24/2019 20:24	WG1228076
Hexachloro-1,3-butadiene	U	UJ	J0	0.0214	0.0422	1.16	01/24/2019 20:24	WG1228076
2-Hexanone	U	UJ	J0	0.0169	0.0422	1.16	01/24/2019 20:24	WG1228076
n-Hexane	0.0699			0.00179	0.00844	1.16	01/24/2019 20:24	WG1228076
Iodomethane	U			0.0102	0.0211	1.16	01/24/2019 20:24	WG1228076
Isopropylbenzene	U			0.00146	0.00422	1.16	01/24/2019 20:24	WG1228076
p-Isopropyltoluene	0.00489	J	J	0.00393	0.00844	1.16	01/24/2019 20:24	WG1228076
2-Butanone (MEK)	0.0467			0.0211	0.0422	1.16	01/24/2019 20:24	WG1228076
Methylene Chloride	U			0.0112	0.0422	1.16	01/24/2019 20:24	WG1228076
4-Methyl-2-pentanone (MIBK)	U			0.0169	0.0422	1.16	01/24/2019 20:24	WG1228076

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000498	0.00169	1.16	01/24/2019 20:24	WG1228076
Naphthalene	U	UJ	J0 J4	0.00527	0.0211	1.16	01/24/2019 20:24	WG1228076
n-Propylbenzene	U			0.00199	0.00844	1.16	01/24/2019 20:24	WG1228076
Styrene	U			0.00461	0.0211	1.16	01/24/2019 20:24	WG1228076
1,1,1,2-Tetrachloroethane	U			0.000844	0.00422	1.16	01/24/2019 20:24	WG1228076
1,1,2,2-Tetrachloroethane	U			0.000658	0.00422	1.16	01/26/2019 05:10	WG1228359
1,1,2-Trichlorotrifluoroethane	U			0.00114	0.00422	1.16	01/24/2019 20:24	WG1228076
Tetrachloroethene	0.109			0.00118	0.00422	1.16	01/24/2019 20:24	WG1228076
Toluene	0.0115			0.00211	0.00844	1.16	01/24/2019 20:24	WG1228076
1,2,3-Trichlorobenzene	U	UJ	J0 J4	0.00105	0.00422	1.16	01/24/2019 20:24	WG1228076
1,2,4-Trichlorobenzene	U	UJ	J0	0.00813	0.0211	1.16	01/24/2019 20:24	WG1228076
1,1,1-Trichloroethane	U			0.000464	0.00422	1.16	01/24/2019 20:24	WG1228076
1,1,2-Trichloroethane	U			0.00148	0.00422	1.16	01/24/2019 20:24	WG1228076
Trichloroethene	U			0.000675	0.00169	1.16	01/24/2019 20:24	WG1228076
Trichlorofluoromethane	U			0.000844	0.00422	1.16	01/24/2019 20:24	WG1228076
1,2,3-Trichloropropane	U			0.00861	0.0211	1.16	01/24/2019 20:24	WG1228076
1,2,4-Trimethylbenzene	U			0.00195	0.00844	1.16	01/24/2019 20:24	WG1228076
1,2,3-Trimethylbenzene	U	UJ	J0 J4	0.00194	0.00844	1.16	01/24/2019 20:24	WG1228076
1,3,5-Trimethylbenzene	U			0.00182	0.00844	1.16	01/24/2019 20:24	WG1228076
Vinyl acetate	U		~~J4~~	0.00594	0.0211	1.16	01/24/2019 20:24	WG1228076
Vinyl chloride	U			0.00115	0.00422	1.16	01/24/2019 20:24	WG1228076
Xylenes, Total	U			0.00806	0.0110	1.16	01/24/2019 20:24	WG1228076
(S) Toluene-d8	*110*				*75.0-131*		*01/24/2019 20:24*	WG1228076
(S) Toluene-d8	*110*				*75.0-131*		*01/26/2019 05:10*	WG1228359
(S) Dibromofluoromethane	*86.0*				*65.0-129*		*01/24/2019 20:24*	WG1228076
(S) Dibromofluoromethane	*85.4*				*65.0-129*		*01/26/2019 05:10*	WG1228359
(S) a,a,a-Trifluorotoluene	*97.2*				*80.0-120*		*01/24/2019 20:24*	WG1228076
(S) a,a,a-Trifluorotoluene	*105*				*80.0-120*		*01/26/2019 05:10*	WG1228359
(S) 4-Bromofluorobenzene	*94.5*				*67.0-138*		*01/24/2019 20:24*	WG1228076
(S) 4-Bromofluorobenzene	*102*				*67.0-138*		*01/26/2019 05:10*	WG1228359

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.6		1	01/24/2019 17:02	WG1227645

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0248	U	~~B J~~	0.0168	0.0306	1	01/24/2019 20:47	WG1228076	
Acrylonitrile	U			0.00233	0.0153	1	01/24/2019 20:47	WG1228076	
Benzene	0.0153			0.000490	0.00123	1	01/24/2019 20:47	WG1228076	
Bromobenzene	U			0.00129	0.0153	1	01/24/2019 20:47	WG1228076	
Bromodichloromethane	U			0.000965	0.00306	1	01/24/2019 20:47	WG1228076	
Bromochloromethane	U			0.00138	0.00613	1	01/24/2019 20:47	WG1228076	
Bromoform	U	UJ	J0	0.00733	0.0306	1	01/24/2019 20:47	WG1228076	
Bromomethane	U			0.00453	0.0153	1	01/24/2019 20:47	WG1228076	
n-Butylbenzene	U			0.00470	0.0153	1	01/24/2019 20:47	WG1228076	
sec-Butylbenzene	U			0.00310	0.0153	1	01/24/2019 20:47	WG1228076	
tert-Butylbenzene	U			0.00190	0.00613	1	01/24/2019 20:47	WG1228076	
Carbon disulfide	U			0.00497	0.0153	1	01/24/2019 20:47	WG1228076	
Carbon tetrachloride	U			0.00132	0.00613	1	01/24/2019 20:47	WG1228076	
Chlorobenzene	U			0.000702	0.00306	1	01/24/2019 20:47	WG1228076	
Chlorodibromomethane	U			0.000551	0.00306	1	01/24/2019 20:47	WG1228076	
Chloroethane	U			0.00132	0.00613	1	01/24/2019 20:47	WG1228076	
Chloroform	U			0.000508	0.00306	1	01/24/2019 20:47	WG1228076	
Chloromethane	U			0.00170	0.0153	1	01/24/2019 20:47	WG1228076	
2-Chlorotoluene	U			0.00113	0.00306	1	01/24/2019 20:47	WG1228076	
4-Chlorotoluene	U			0.00138	0.00613	1	01/24/2019 20:47	WG1228076	
1,2-Dibromo-3-Chloropropane	U			0.00625	0.0306	1	01/26/2019 05:31	WG1228359	
1,2-Dibromoethane	U			0.000643	0.00306	1	01/24/2019 20:47	WG1228076	
Dibromomethane	U			0.00123	0.00613	1	01/24/2019 20:47	WG1228076	
1,2-Dichlorobenzene	U			0.00178	0.00613	1	01/24/2019 20:47	WG1228076	
1,3-Dichlorobenzene	U			0.00208	0.00613	1	01/24/2019 20:47	WG1228076	
1,4-Dichlorobenzene	U			0.00241	0.00613	1	01/24/2019 20:47	WG1228076	
Dichlorodifluoromethane	U			0.00100	0.00306	1	01/26/2019 05:31	WG1228359	
1,1-Dichloroethane	U			0.000704	0.00306	1	01/24/2019 20:47	WG1228076	
1,2-Dichloroethane	U			0.000582	0.00306	1	01/24/2019 20:47	WG1228076	
1,1-Dichloroethene	U			0.000613	0.00306	1	01/26/2019 05:31	WG1228359	
cis-1,2-Dichloroethene	U			0.000845	0.00306	1	01/26/2019 05:31	WG1228359	
trans-1,2-Dichloroethene	U			0.00175	0.00613	1	01/24/2019 20:47	WG1228076	
1,2-Dichloropropane	U			0.00156	0.00613	1	01/24/2019 20:47	WG1228076	
1,1-Dichloropropene	U			0.000858	0.00306	1	01/24/2019 20:47	WG1228076	
1,3-Dichloropropane	U			0.00214	0.00613	1	01/24/2019 20:47	WG1228076	
cis-1,3-Dichloropropene	U			0.000831	0.00306	1	01/24/2019 20:47	WG1228076	
trans-1,3-Dichloropropene	U			0.00187	0.00613	1	01/24/2019 20:47	WG1228076	
trans-1,4-Dichloro-2-butene	U			0.00172	0.00613	1	01/26/2019 05:31	WG1228359	
2,2-Dichloropropane	U			0.000971	0.00306	1	01/24/2019 20:47	WG1228076	
Di-isopropyl ether	U			0.000429	0.00123	1	01/26/2019 05:31	WG1228359	
Ethylbenzene	0.00295	J	J	0.000649	0.00306	1	01/24/2019 20:47	WG1228076	
Hexachloro-1,3-butadiene	U	UJ	J0	0.0156	0.0306	1	01/24/2019 20:47	WG1228076	
2-Hexanone	U	UJ	J0	0.0123	0.0306	1	01/24/2019 20:47	WG1228076	
n-Hexane	0.00687		~~B~~	0.00130	0.00613	1	01/24/2019 20:47	WG1228076	
Iodomethane	U			0.00741	0.0153	1	01/24/2019 20:47	WG1228076	
Isopropylbenzene	U			0.00106	0.00306	1	01/24/2019 20:47	WG1228076	
p-Isopropyltoluene	0.00779			0.00285	0.00613	1	01/24/2019 20:47	WG1228076	JC 3/4/19
2-Butanone (MEK)	0.0452			0.0153	0.0306	1	01/24/2019 20:47	WG1228076	
Methylene Chloride	U			0.00813	0.0306	1	01/24/2019 20:47	WG1228076	
4-Methyl-2-pentanone (MIBK)	U			0.0123	0.0306	1	01/24/2019 20:47	WG1228076	

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U			0.000361	0.00123	1	01/24/2019 20:47	WG1228076
Naphthalene	U	UJ	J0 J4	0.00382	0.0153	1	01/24/2019 20:47	WG1228076
n-Propylbenzene	U			0.00145	0.00613	1	01/24/2019 20:47	WG1228076
Styrene	U			0.00334	0.0153	1	01/24/2019 20:47	WG1228076
1,1,1,2-Tetrachloroethane	U			0.000613	0.00306	1	01/24/2019 20:47	WG1228076
1,1,2,2-Tetrachloroethane	U			0.000478	0.00306	1	01/26/2019 05:31	WG1228359
1,1,2-Trichlorotrifluoroethane	U			0.000827	0.00306	1	01/24/2019 20:47	WG1228076
Tetrachloroethene	0.00257	J	J	0.000858	0.00306	1	01/24/2019 20:47	WG1228076
Toluene	0.00773			0.00153	0.00613	1	01/24/2019 20:47	WG1228076
1,2,3-Trichlorobenzene	U	UJ	J0 J4	0.000766	0.00306	1	01/24/2019 20:47	WG1228076
1,2,4-Trichlorobenzene	U	UJ	J0	0.00590	0.0153	1	01/24/2019 20:47	WG1228076
1,1,1-Trichloroethane	U			0.000337	0.00306	1	01/24/2019 20:47	WG1228076
1,1,2-Trichloroethane	U			0.00108	0.00306	1	01/24/2019 20:47	WG1228076
Trichloroethene	U			0.000490	0.00123	1	01/24/2019 20:47	WG1228076
Trichlorofluoromethane	U			0.000613	0.00306	1	01/24/2019 20:47	WG1228076
1,2,3-Trichloropropane	U			0.00625	0.0153	1	01/24/2019 20:47	WG1228076
1,2,4-Trimethylbenzene	0.00729			0.00142	0.00613	1	01/24/2019 20:47	WG1228076
1,2,3-Trimethylbenzene	0.00365	J	J J0 J4	0.00141	0.00613	1	01/24/2019 20:47	WG1228076
1,3,5-Trimethylbenzene	0.00205	J	J	0.00132	0.00613	1	01/24/2019 20:47	WG1228076
Vinyl acetate	U		~~J4~~	0.00431	0.0153	1	01/24/2019 20:47	WG1228076
Vinyl chloride	U			0.000837	0.00306	1	01/24/2019 20:47	WG1228076
Xylenes, Total	0.0170			0.00586	0.00796	1	01/24/2019 20:47	WG1228076
(S) Toluene-d8	*109*				*75.0-131*		*01/24/2019 20:47*	WG1228076
(S) Toluene-d8	*112*				*75.0-131*		*01/26/2019 05:31*	WG1228359
(S) Dibromofluoromethane	*83.7*				*65.0-129*		*01/24/2019 20:47*	WG1228076
(S) Dibromofluoromethane	*84.7*				*65.0-129*		*01/26/2019 05:31*	WG1228359
(S) a,a,a-Trifluorotoluene	*97.6*				*80.0-120*		*01/24/2019 20:47*	WG1228076
(S) a,a,a-Trifluorotoluene	*106*				*80.0-120*		*01/26/2019 05:31*	WG1228359
(S) 4-Bromofluorobenzene	*94.1*				*67.0-138*		*01/24/2019 20:47*	WG1228076
(S) 4-Bromofluorobenzene	*104*				*67.0-138*		*01/26/2019 05:31*	WG1228359

JC 3/4/19

SAMPLE RESULTS - 03

L1063347

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.5		1	01/24/2019 17:02	WG1227645

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0336		~~B~~	0.0158	0.0289	1	01/24/2019 21:09	WG1228076
Acrylonitrile	U			0.00220	0.0144	1	01/24/2019 21:09	WG1228076
Benzene	0.0228			0.000462	0.00116	1	01/24/2019 21:09	WG1228076
Bromobenzene	U			0.00121	0.0144	1	01/24/2019 21:09	WG1228076
Bromodichloromethane	U			0.000911	0.00289	1	01/24/2019 21:09	WG1228076
Bromochloromethane	U			0.00131	0.00578	1	01/24/2019 21:09	WG1228076
Bromoform	U	UJ	J0	0.00691	0.0289	1	01/24/2019 21:09	WG1228076
Bromomethane	U			0.00428	0.0144	1	01/24/2019 21:09	WG1228076
n-Butylbenzene	U			0.00444	0.0144	1	01/24/2019 21:09	WG1228076
sec-Butylbenzene	U			0.00292	0.0144	1	01/24/2019 21:09	WG1228076
tert-Butylbenzene	U			0.00179	0.00578	1	01/24/2019 21:09	WG1228076
Carbon disulfide	U			0.00469	0.0144	1	01/24/2019 21:09	WG1228076
Carbon tetrachloride	U			0.00125	0.00578	1	01/24/2019 21:09	WG1228076
Chlorobenzene	U			0.000662	0.00289	1	01/24/2019 21:09	WG1228076
Chlorodibromomethane	U			0.000520	0.00289	1	01/24/2019 21:09	WG1228076
Chloroethane	U			0.00125	0.00578	1	01/24/2019 21:09	WG1228076
Chloroform	0.000510	J	J	0.000480	0.00289	1	01/24/2019 21:09	WG1228076
Chloromethane	U			0.00161	0.0144	1	01/24/2019 21:09	WG1228076
2-Chlorotoluene	U			0.00106	0.00289	1	01/24/2019 21:09	WG1228076
4-Chlorotoluene	U			0.00131	0.00578	1	01/24/2019 21:09	WG1228076
1,2-Dibromo-3-Chloropropane	U			0.00589	0.0289	1	01/26/2019 05:50	WG1228359
1,2-Dibromoethane	U			0.000607	0.00289	1	01/24/2019 21:09	WG1228076
Dibromomethane	U			0.00116	0.00578	1	01/24/2019 21:09	WG1228076
1,2-Dichlorobenzene	U			0.00168	0.00578	1	01/24/2019 21:09	WG1228076
1,3-Dichlorobenzene	U			0.00196	0.00578	1	01/24/2019 21:09	WG1228076
1,4-Dichlorobenzene	U			0.00228	0.00578	1	01/24/2019 21:09	WG1228076
Dichlorodifluoromethane	U			0.000945	0.00289	1	01/26/2019 05:50	WG1228359
1,1-Dichloroethane	U			0.000664	0.00289	1	01/24/2019 21:09	WG1228076
1,2-Dichloroethane	U			0.000549	0.00289	1	01/24/2019 21:09	WG1228076
1,1-Dichloroethene	U			0.000578	0.00289	1	01/26/2019 05:50	WG1228359
cis-1,2-Dichloroethene	0.00338			0.000797	0.00289	1	01/26/2019 05:50	WG1228359
trans-1,2-Dichloroethene	U			0.00165	0.00578	1	01/24/2019 21:09	WG1228076
1,2-Dichloropropane	U			0.00147	0.00578	1	01/24/2019 21:09	WG1228076
1,1-Dichloropropene	U			0.000809	0.00289	1	01/24/2019 21:09	WG1228076
1,3-Dichloropropane	U			0.00202	0.00578	1	01/24/2019 21:09	WG1228076
cis-1,3-Dichloropropene	U			0.000784	0.00289	1	01/24/2019 21:09	WG1228076
trans-1,3-Dichloropropene	U			0.00177	0.00578	1	01/24/2019 21:09	WG1228076
trans-1,4-Dichloro-2-butene	U			0.00162	0.00578	1	01/26/2019 05:50	WG1228359
2,2-Dichloropropane	U			0.000916	0.00289	1	01/24/2019 21:09	WG1228076
Di-isopropyl ether	U			0.000404	0.00116	1	01/26/2019 05:50	WG1228359
Ethylbenzene	0.000632	J	J	0.000612	0.00289	1	01/24/2019 21:09	WG1228076
Hexachloro-1,3-butadiene	U	UJ	J0	0.0147	0.0289	1	01/24/2019 21:09	WG1228076
2-Hexanone	U	UJ	J0	0.0116	0.0289	1	01/24/2019 21:09	WG1228076
n-Hexane	0.00318	U	B J	0.00122	0.00578	1	01/24/2019 21:09	WG1228076
Iodomethane	U			0.00699	0.0144	1	01/24/2019 21:09	WG1228076
Isopropylbenzene	U			0.000997	0.00289	1	01/24/2019 21:09	WG1228076
p-Isopropyltoluene	U			0.00269	0.00578	1	01/24/2019 21:09	WG1228076
2-Butanone (MEK)	0.0305			0.0144	0.0289	1	01/24/2019 21:09	WG1228076
Methylene Chloride	U			0.00767	0.0289	1	01/24/2019 21:09	WG1228076
4-Methyl-2-pentanone (MIBK)	U			0.0116	0.0289	1	01/24/2019 21:09	WG1228076

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000341	0.00116	1	01/24/2019 21:09	WG1228076
Naphthalene	U	UJ	J0 J4	0.00361	0.0144	1	01/24/2019 21:09	WG1228076
n-Propylbenzene	U			0.00136	0.00578	1	01/24/2019 21:09	WG1228076
Styrene	U			0.00315	0.0144	1	01/24/2019 21:09	WG1228076
1,1,1,2-Tetrachloroethane	U			0.000578	0.00289	1	01/24/2019 21:09	WG1228076
1,1,2,2-Tetrachloroethane	U			0.000451	0.00289	1	01/26/2019 05:50	WG1228359
1,1,2-Trichlorotrifluoroethane	U			0.000780	0.00289	1	01/24/2019 21:09	WG1228076
Tetrachloroethene	0.00251	J	J	0.000809	0.00289	1	01/24/2019 21:09	WG1228076
Toluene	0.00384	J	J	0.00144	0.00578	1	01/24/2019 21:09	WG1228076
1,2,3-Trichlorobenzene	U	UJ	J0 J4	0.000722	0.00289	1	01/24/2019 21:09	WG1228076
1,2,4-Trichlorobenzene	U	UJ	J0	0.00557	0.0144	1	01/24/2019 21:09	WG1228076
1,1,1-Trichloroethane	U			0.000318	0.00289	1	01/24/2019 21:09	WG1228076
1,1,2-Trichloroethane	U			0.00102	0.00289	1	01/24/2019 21:09	WG1228076
Trichloroethene	U			0.000462	0.00116	1	01/24/2019 21:09	WG1228076
Trichlorofluoromethane	U			0.000578	0.00289	1	01/24/2019 21:09	WG1228076
1,2,3-Trichloropropane	U			0.00589	0.0144	1	01/24/2019 21:09	WG1228076
1,2,4-Trimethylbenzene	0.00174	J	J	0.00134	0.00578	1	01/24/2019 21:09	WG1228076
1,2,3-Trimethylbenzene	U	UJ	J0 J4	0.00133	0.00578	1	01/24/2019 21:09	WG1228076
1,3,5-Trimethylbenzene	U			0.00125	0.00578	1	01/24/2019 21:09	WG1228076
Vinyl acetate	U		~~J4~~	0.00407	0.0144	1	01/24/2019 21:09	WG1228076
Vinyl chloride	0.00102	J	J	0.000789	0.00289	1	01/24/2019 21:09	WG1228076
Xylenes, Total	U			0.00552	0.00751	1	01/24/2019 21:09	WG1228076
(S) Toluene-d8	*95.1*				*75.0-131*		*01/24/2019 21:09*	WG1228076
(S) Toluene-d8	*95.7*				*75.0-131*		*01/26/2019 05:50*	WG1228359
(S) Dibromofluoromethane	*85.6*				*65.0-129*		*01/24/2019 21:09*	WG1228076
(S) Dibromofluoromethane	*82.6*				*65.0-129*		*01/26/2019 05:50*	WG1228359
(S) a,a,a-Trifluorotoluene	*95.9*				*80.0-120*		*01/24/2019 21:09*	WG1228076
(S) a,a,a-Trifluorotoluene	*105*				*80.0-120*		*01/26/2019 05:50*	WG1228359
(S) 4-Bromofluorobenzene	*93.2*				*67.0-138*		*01/24/2019 21:09*	WG1228076
(S) 4-Bromofluorobenzene	*105*				*67.0-138*		*01/26/2019 05:50*	WG1228359

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	54.4		1	01/24/2019 17:02	WG1227645

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Gasoline Range Organics-NWTPH	24.9	J+	1.84	5.42	29.5	01/23/2019 15:56	WG1227399	JC 3/21/19
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*01/23/2019 15:56*	WG1227399	

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Acetone	0.168	~~B~~	0.0299	0.0546	1.19	01/24/2019 21:31	WG1228076	
Acrylonitrile	U		0.00415	0.0273	1.19	01/24/2019 21:31	WG1228076	
Benzene	0.274		0.000874	0.00219	1.19	01/24/2019 21:31	WG1228076	
Bromobenzene	U		0.00230	0.0273	1.19	01/24/2019 21:31	WG1228076	
Bromodichloromethane	U		0.00172	0.00546	1.19	01/24/2019 21:31	WG1228076	
Bromochloromethane	U		0.00246	0.0109	1.19	01/24/2019 21:31	WG1228076	
Bromoform	U	UJ J0	0.0131	0.0546	1.19	01/24/2019 21:31	WG1228076	
Bromomethane	U		0.00808	0.0273	1.19	01/24/2019 21:31	WG1228076	
n-Butylbenzene	U		0.00839	0.0273	1.19	01/24/2019 21:31	WG1228076	
sec-Butylbenzene	U		0.00553	0.0273	1.19	01/24/2019 21:31	WG1228076	
tert-Butylbenzene	U		0.00338	0.0109	1.19	01/24/2019 21:31	WG1228076	
Carbon disulfide	0.0228	J J	0.00887	0.0273	1.19	01/24/2019 21:31	WG1228076	
Carbon tetrachloride	U		0.00235	0.0109	1.19	01/24/2019 21:31	WG1228076	
Chlorobenzene	U		0.00125	0.00546	1.19	01/24/2019 21:31	WG1228076	
Chlorodibromomethane	U		0.000985	0.00546	1.19	01/24/2019 21:31	WG1228076	
Chloroethane	U		0.00235	0.0109	1.19	01/24/2019 21:31	WG1228076	
Chloroform	U		0.000907	0.00546	1.19	01/24/2019 21:31	WG1228076	
Chloromethane	U		0.00303	0.0273	1.19	01/24/2019 21:31	WG1228076	
2-Chlorotoluene	U		0.00200	0.00546	1.19	01/24/2019 21:31	WG1228076	
4-Chlorotoluene	U		0.00246	0.0109	1.19	01/24/2019 21:31	WG1228076	
1,2-Dibromo-3-Chloropropane	U		0.0111	0.0542	1.18	01/26/2019 06:10	WG1228359	
1,2-Dibromoethane	U		0.00115	0.00546	1.19	01/24/2019 21:31	WG1228076	
Dibromomethane	U		0.00219	0.0109	1.19	01/24/2019 21:31	WG1228076	
1,2-Dichlorobenzene	U		0.00316	0.0109	1.19	01/24/2019 21:31	WG1228076	
1,3-Dichlorobenzene	U		0.00371	0.0109	1.19	01/24/2019 21:31	WG1228076	
1,4-Dichlorobenzene	U		0.00430	0.0109	1.19	01/24/2019 21:31	WG1228076	
Dichlorodifluoromethane	U		0.00177	0.00542	1.18	01/26/2019 06:10	WG1228359	
1,1-Dichloroethane	U		0.00126	0.00546	1.19	01/24/2019 21:31	WG1228076	
1,2-Dichloroethane	U		0.00104	0.00546	1.19	01/24/2019 21:31	WG1228076	
1,1-Dichloroethene	U		0.00108	0.00542	1.18	01/26/2019 06:10	WG1228359	
cis-1,2-Dichloroethene	0.864		0.00150	0.00542	1.18	01/26/2019 06:10	WG1228359	
trans-1,2-Dichloroethene	0.0366		0.00312	0.0109	1.19	01/24/2019 21:31	WG1228076	
1,2-Dichloropropane	U		0.00277	0.0109	1.19	01/24/2019 21:31	WG1228076	
1,1-Dichloropropene	U		0.00153	0.00546	1.19	01/24/2019 21:31	WG1228076	
1,3-Dichloropropane	U		0.00382	0.0109	1.19	01/24/2019 21:31	WG1228076	
cis-1,3-Dichloropropene	U		0.00148	0.00546	1.19	01/24/2019 21:31	WG1228076	
trans-1,3-Dichloropropene	U		0.00334	0.0109	1.19	01/24/2019 21:31	WG1228076	
trans-1,4-Dichloro-2-butene	U		0.00303	0.0108	1.18	01/26/2019 06:10	WG1228359	
2,2-Dichloropropane	U		0.00173	0.00546	1.19	01/24/2019 21:31	WG1228076	
Di-isopropyl ether	U		0.000759	0.00217	1.18	01/26/2019 06:10	WG1228359	
Ethylbenzene	0.0240		0.00116	0.00546	1.19	01/24/2019 21:31	WG1228076	
Hexachloro-1,3-butadiene	U	UJ J0	0.0277	0.0546	1.19	01/24/2019 21:31	WG1228076	
2-Hexanone	U	UJ J0	0.0219	0.0546	1.19	01/24/2019 21:31	WG1228076	
n-Hexane	1.22		0.00231	0.0109	1.19	01/24/2019 21:31	WG1228076	JC 3/4/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.0132	0.0273	1.19	01/24/2019 21:31	WG1228076
Isopropylbenzene	0.00922		0.00189	0.00546	1.19	01/24/2019 21:31	WG1228076
p-Isopropyltoluene	0.118		0.00509	0.0109	1.19	01/24/2019 21:31	WG1228076
2-Butanone (MEK)	0.213		0.0274	0.0546	1.19	01/24/2019 21:31	WG1228076
Methylene Chloride	U		0.0145	0.0546	1.19	01/24/2019 21:31	WG1228076
4-Methyl-2-pentanone (MIBK)	U		0.0219	0.0546	1.19	01/24/2019 21:31	WG1228076
Methyl tert-butyl ether	U		0.000645	0.00219	1.19	01/24/2019 21:31	WG1228076
Naphthalene	U	UJ J0 J4	0.00681	0.0273	1.19	01/24/2019 21:31	WG1228076
n-Propylbenzene	0.00827	J J	0.00257	0.0109	1.19	01/24/2019 21:31	WG1228076
Styrene	U		0.00597	0.0273	1.19	01/24/2019 21:31	WG1228076
1,1,1,2-Tetrachloroethane	U		0.00109	0.00546	1.19	01/24/2019 21:31	WG1228076
1,1,2,2-Tetrachloroethane	U		0.000845	0.00542	1.18	01/26/2019 06:10	WG1228359
1,1,2-Trichlorotrifluoroethane	U		0.00148	0.00546	1.19	01/24/2019 21:31	WG1228076
Tetrachloroethene	0.00154	J J	0.00153	0.00546	1.19	01/24/2019 21:31	WG1228076
Toluene	0.118		0.00274	0.0109	1.19	01/24/2019 21:31	WG1228076
1,2,3-Trichlorobenzene	U	UJ J0 J4	0.00137	0.00546	1.19	01/24/2019 21:31	WG1228076
1,2,4-Trichlorobenzene	U	J0	0.0105	0.0273	1.19	01/24/2019 21:31	WG1228076
1,1,1-Trichloroethane	U		0.000601	0.00546	1.19	01/24/2019 21:31	WG1228076
1,1,2-Trichloroethane	U		0.00193	0.00546	1.19	01/24/2019 21:31	WG1228076
Trichloroethene	0.00166	J J	0.000874	0.00219	1.19	01/24/2019 21:31	WG1228076
Trichlorofluoromethane	U		0.00109	0.00546	1.19	01/24/2019 21:31	WG1228076
1,2,3-Trichloropropane	U		0.0111	0.0273	1.19	01/24/2019 21:31	WG1228076
1,2,4-Trimethylbenzene	0.0155		0.00253	0.0109	1.19	01/24/2019 21:31	WG1228076
1,2,3-Trimethylbenzene	0.0116	J J0 J4	0.00252	0.0109	1.19	01/24/2019 21:31	WG1228076
1,3,5-Trimethylbenzene	0.00992	J J	0.00235	0.0109	1.19	01/24/2019 21:31	WG1228076
Vinyl acetate	U	~~J4~~	0.00770	0.0273	1.19	01/24/2019 21:31	WG1228076
Vinyl chloride	0.141		0.00149	0.00546	1.19	01/24/2019 21:31	WG1228076
Xylenes, Total	0.0516		0.0105	0.0142	1.19	01/24/2019 21:31	WG1228076
(S) Toluene-d8	*88.6*			*75.0-131*		*01/24/2019 21:31*	WG1228076
(S) Toluene-d8	*86.5*			*75.0-131*		*01/26/2019 06:10*	WG1228359
(S) Dibromofluoromethane	*87.6*			*65.0-129*		*01/24/2019 21:31*	WG1228076
(S) Dibromofluoromethane	*84.1*			*65.0-129*		*01/26/2019 06:10*	WG1228359
(S) a,a,a-Trifluorotoluene	*98.8*			*80.0-120*		*01/24/2019 21:31*	WG1228076
(S) a,a,a-Trifluorotoluene	*105*			*80.0-120*		*01/26/2019 06:10*	WG1228359
(S) 4-Bromofluorobenzene	*95.2*			*67.0-138*		*01/24/2019 21:31*	WG1228076
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*01/26/2019 06:10*	WG1228359

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 3/4/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/23/2019 15:34	WG1227438
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*01/23/2019 15:34*	WG1227438

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/24/2019 12:03	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 12:03	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 12:03	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 12:03	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 12:03	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 12:03	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 12:03	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 12:03	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 12:03	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 12:03	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 12:03	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 12:03	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 12:03	WG1227840
Chlorobenzene	U		0.140	0.500	1	01/24/2019 12:03	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 12:03	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 12:03	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 12:03	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 12:03	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 12:03	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 12:03	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 12:03	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 12:03	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 12:03	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 12:03	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 12:03	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 12:03	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 12:03	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 12:03	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 12:03	WG1227840
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 12:03	WG1227840
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/24/2019 12:03	WG1227840
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 12:03	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 12:03	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 12:03	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 12:03	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 12:03	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 12:03	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 12:03	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 12:03	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 12:03	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 12:03	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 12:03	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 12:03	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 12:03	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 12:03	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 12:03	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 12:03	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 12:03	WG1227840

JC 3/4/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	01/24/2019 12:03	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 12:03	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 12:03	WG1227840
Naphthalene	0.179	B J	0.174	2.50	1	01/24/2019 12:03	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 12:03	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 12:03	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 12:03	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 12:03	WG1227840
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 12:03	WG1227840
Tetrachloroethene	U		0.199	0.500	1	01/24/2019 12:03	WG1227840
Toluene	U		0.412	0.500	1	01/24/2019 12:03	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 12:03	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 12:03	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 12:03	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 12:03	WG1227840
Trichloroethene	U		0.153	0.500	1	01/24/2019 12:03	WG1227840
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 12:03	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 12:03	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 12:03	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 12:03	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 12:03	WG1227840
Vinyl acetate	U		0.645	5.00	1	01/24/2019 12:03	WG1227840
Vinyl chloride	U		0.118	0.500	1	01/24/2019 12:03	WG1227840
Xylenes, Total	U		0.316	1.50	1	01/24/2019 12:03	WG1227840
(S) Toluene-d8	*100*			*80.0-120*		*01/24/2019 12:03*	WG1227840
(S) Dibromofluoromethane	*104*			*75.0-120*		*01/24/2019 12:03*	WG1227840
(S) a,a,a-Trifluorotoluene	*98.8*			*80.0-120*		*01/24/2019 12:03*	WG1227840
(S) 4-Bromofluorobenzene	*91.1*			*77.0-126*		*01/24/2019 12:03*	WG1227840

JC 3/4/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.8		1	01/28/2019 15:36	WG1229369

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0247 U	B J J0	0.0156	0.0285	1	01/30/2019 12:04	WG1229916
Acrylonitrile	U		0.00216	0.0142	1	01/29/2019 11:56	WG1229639
Benzene	U		0.000455	0.00114	1	01/29/2019 11:56	WG1229639
Bromobenzene	U		0.00120	0.0142	1	01/29/2019 11:56	WG1229639
Bromodichloromethane	U		0.000897	0.00285	1	01/29/2019 11:56	WG1229639
Bromochloromethane	U		0.00129	0.00569	1	01/29/2019 11:56	WG1229639
Bromoform	U		0.00681	0.0285	1	01/29/2019 11:56	WG1229639
Bromomethane	U		0.00421	0.0142	1	01/29/2019 11:56	WG1229639
n-Butylbenzene	U		0.00437	0.0142	1	01/29/2019 11:56	WG1229639
sec-Butylbenzene	U		0.00288	0.0142	1	01/29/2019 11:56	WG1229639
tert-Butylbenzene	U		0.00176	0.00569	1	01/29/2019 11:56	WG1229639
Carbon disulfide	U		0.00462	0.0142	1	01/29/2019 11:56	WG1229639
Carbon tetrachloride	U		0.00123	0.00569	1	01/29/2019 11:56	WG1229639
Chlorobenzene	U		0.000652	0.00285	1	01/29/2019 11:56	WG1229639
Chlorodibromomethane	U		0.000512	0.00285	1	01/29/2019 11:56	WG1229639
Chloroethane	U		0.00123	0.00569	1	01/29/2019 11:56	WG1229639
Chloroform	0.00161 J	J	0.000473	0.00285	1	01/29/2019 11:56	WG1229639
Chloromethane	U		0.00158	0.0142	1	01/29/2019 11:56	WG1229639
2-Chlorotoluene	U		0.00105	0.00285	1	01/29/2019 11:56	WG1229639
4-Chlorotoluene	U		0.00129	0.00569	1	01/29/2019 11:56	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00581	0.0285	1	01/29/2019 11:56	WG1229639
1,2-Dibromoethane	U		0.000598	0.00285	1	01/29/2019 11:56	WG1229639
Dibromomethane	U		0.00114	0.00569	1	01/29/2019 11:56	WG1229639
1,2-Dichlorobenzene	U		0.00165	0.00569	1	01/29/2019 11:56	WG1229639
1,3-Dichlorobenzene	U		0.00194	0.00569	1	01/29/2019 11:56	WG1229639
1,4-Dichlorobenzene	U		0.00224	0.00569	1	01/29/2019 11:56	WG1229639
Dichlorodifluoromethane	U		0.000931	0.00285	1	01/29/2019 11:56	WG1229639
1,1-Dichloroethane	U		0.000655	0.00285	1	01/29/2019 11:56	WG1229639
1,2-Dichloroethane	U		0.000541	0.00285	1	01/29/2019 11:56	WG1229639
1,1-Dichloroethene	U		0.000569	0.00285	1	01/29/2019 11:56	WG1229639
cis-1,2-Dichloroethene	0.0194		0.000786	0.00285	1	01/29/2019 11:56	WG1229639
trans-1,2-Dichloroethene	U		0.00163	0.00569	1	01/29/2019 11:56	WG1229639
1,2-Dichloropropane	U		0.00145	0.00569	1	01/30/2019 12:04	WG1229916
1,1-Dichloropropene	U		0.000797	0.00285	1	01/29/2019 11:56	WG1229639
1,3-Dichloropropane	U		0.00199	0.00569	1	01/29/2019 11:56	WG1229639
cis-1,3-Dichloropropene	U		0.000772	0.00285	1	01/29/2019 11:56	WG1229639
trans-1,3-Dichloropropene	U		0.00174	0.00569	1	01/29/2019 11:56	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00159	0.00569	1	01/29/2019 11:56	WG1229639
2,2-Dichloropropane	U		0.000903	0.00285	1	01/29/2019 11:56	WG1229639
Di-isopropyl ether	U		0.000399	0.00114	1	01/29/2019 11:56	WG1229639
Ethylbenzene	U		0.000603	0.00285	1	01/29/2019 11:56	WG1229639
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	01/29/2019 11:56	WG1229639
2-Hexanone	U		0.0114	0.0285	1	01/29/2019 11:56	WG1229639
n-Hexane	U		0.00121	0.00569	1	01/29/2019 11:56	WG1229639
Iodomethane	U		0.00689	0.0142	1	01/29/2019 11:56	WG1229639
Isopropylbenzene	U		0.000983	0.00285	1	01/29/2019 11:56	WG1229639
p-Isopropyltoluene	U		0.00265	0.00569	1	01/29/2019 11:56	WG1229639
2-Butanone (MEK)	U		0.0142	0.0285	1	01/30/2019 12:04	WG1229916
Methylene Chloride	U		0.00756	0.0285	1	01/29/2019 11:56	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	01/29/2019 11:56	WG1229639

JC 3/5/19

MW-164-80

Collected date/time: 01/24/19 16:15

SAMPLE RESULTS - 01

L1064712

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000336	0.00114	1	01/29/2019 11:56	WG1229639
Naphthalene	U		0.00355	0.0142	1	01/29/2019 11:56	WG1229639
n-Propylbenzene	U		0.00134	0.00569	1	01/29/2019 11:56	WG1229639
Styrene	U		0.00311	0.0142	1	01/29/2019 11:56	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000569	0.00285	1	01/29/2019 11:56	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000444	0.00285	1	01/29/2019 11:56	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000769	0.00285	1	01/29/2019 11:56	WG1229639
Tetrachloroethene	0.00236 J	J	0.000797	0.00285	1	01/29/2019 11:56	WG1229639
Toluene	U		0.00142	0.00569	1	01/29/2019 11:56	WG1229639
1,2,3-Trichlorobenzene	U		0.000712	0.00285	1	01/29/2019 11:56	WG1229639
1,2,4-Trichlorobenzene	U		0.00549	0.0142	1	01/29/2019 11:56	WG1229639
1,1,1-Trichloroethane	U		0.000313	0.00285	1	01/29/2019 11:56	WG1229639
1,1,2-Trichloroethane	U		0.00101	0.00285	1	01/29/2019 11:56	WG1229639
Trichloroethene	U		0.000455	0.00114	1	01/29/2019 11:56	WG1229639
Trichlorofluoromethane	U		0.000569	0.00285	1	01/29/2019 11:56	WG1229639
1,2,3-Trichloropropane	U		0.00581	0.0142	1	01/29/2019 11:56	WG1229639
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	01/29/2019 11:56	WG1229639
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	01/29/2019 11:56	WG1229639
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	01/29/2019 11:56	WG1229639
Vinyl acetate	U		0.00401	0.0142	1	01/29/2019 11:56	WG1229639
Vinyl chloride	0.0313		0.000778	0.00285	1	01/29/2019 11:56	WG1229639
Xylenes, Total	U		0.00544	0.00740	1	01/29/2019 11:56	WG1229639
(S) Toluene-d8	*105*			*75.0-131*		*01/29/2019 11:56*	WG1229639
(S) Toluene-d8	*96.5*			*75.0-131*		*01/30/2019 12:04*	WG1229916
(S) Dibromofluoromethane	*84.8*			*65.0-129*		*01/29/2019 11:56*	WG1229639
(S) Dibromofluoromethane	*108*			*65.0-129*		*01/30/2019 12:04*	WG1229916
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*01/29/2019 11:56*	WG1229639
(S) 4-Bromofluorobenzene	*117*			*67.0-138*		*01/30/2019 12:04*	WG1229916

JC 3/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.3		1	01/28/2019 15:36	WG1229369

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0393 J	B J0	0.0153	0.0280	1	01/30/2019 12:23	WG1229916
Acrylonitrile	U		0.00213	0.0140	1	01/29/2019 12:16	WG1229639
Benzene	U		0.000448	0.00112	1	01/29/2019 12:16	WG1229639
Bromobenzene	U		0.00118	0.0140	1	01/29/2019 12:16	WG1229639
Bromodichloromethane	U		0.000882	0.00280	1	01/29/2019 12:16	WG1229639
Bromochloromethane	U		0.00126	0.00560	1	01/29/2019 12:16	WG1229639
Bromoform	U		0.00669	0.0280	1	01/29/2019 12:16	WG1229639
Bromomethane	U		0.00414	0.0140	1	01/29/2019 12:16	WG1229639
n-Butylbenzene	U		0.00430	0.0140	1	01/29/2019 12:16	WG1229639
sec-Butylbenzene	U		0.00283	0.0140	1	01/29/2019 12:16	WG1229639
tert-Butylbenzene	U		0.00174	0.00560	1	01/29/2019 12:16	WG1229639
Carbon disulfide	U		0.00454	0.0140	1	01/29/2019 12:16	WG1229639
Carbon tetrachloride	U		0.00121	0.00560	1	01/29/2019 12:16	WG1229639
Chlorobenzene	U		0.000641	0.00280	1	01/29/2019 12:16	WG1229639
Chlorodibromomethane	U		0.000504	0.00280	1	01/29/2019 12:16	WG1229639
Chloroethane	U		0.00121	0.00560	1	01/29/2019 12:16	WG1229639
Chloroform	0.00159 J	J	0.000465	0.00280	1	01/29/2019 12:16	WG1229639
Chloromethane	U		0.00156	0.0140	1	01/29/2019 12:16	WG1229639
2-Chlorotoluene	U		0.00103	0.00280	1	01/29/2019 12:16	WG1229639
4-Chlorotoluene	U		0.00126	0.00560	1	01/29/2019 12:16	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00571	0.0280	1	01/29/2019 12:16	WG1229639
1,2-Dibromoethane	U		0.000588	0.00280	1	01/29/2019 12:16	WG1229639
Dibromomethane	U		0.00112	0.00560	1	01/29/2019 12:16	WG1229639
1,2-Dichlorobenzene	U		0.00162	0.00560	1	01/29/2019 12:16	WG1229639
1,3-Dichlorobenzene	U		0.00190	0.00560	1	01/29/2019 12:16	WG1229639
1,4-Dichlorobenzene	U		0.00221	0.00560	1	01/29/2019 12:16	WG1229639
Dichlorodifluoromethane	U		0.000916	0.00280	1	01/29/2019 12:16	WG1229639
1,1-Dichloroethane	U		0.000644	0.00280	1	01/29/2019 12:16	WG1229639
1,2-Dichloroethane	U		0.000532	0.00280	1	01/29/2019 12:16	WG1229639
1,1-Dichloroethene	U		0.000560	0.00280	1	01/29/2019 12:16	WG1229639
cis-1,2-Dichloroethene	0.00519		0.000772	0.00280	1	01/29/2019 12:16	WG1229639
trans-1,2-Dichloroethene	U		0.00160	0.00560	1	01/29/2019 12:16	WG1229639
1,2-Dichloropropane	U		0.00142	0.00560	1	01/30/2019 12:23	WG1229916
1,1-Dichloropropene	U		0.000784	0.00280	1	01/29/2019 12:16	WG1229639
1,3-Dichloropropane	U		0.00196	0.00560	1	01/29/2019 12:16	WG1229639
cis-1,3-Dichloropropene	U		0.000759	0.00280	1	01/29/2019 12:16	WG1229639
trans-1,3-Dichloropropene	U		0.00171	0.00560	1	01/29/2019 12:16	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00157	0.00560	1	01/29/2019 12:16	WG1229639
2,2-Dichloropropane	U		0.000888	0.00280	1	01/29/2019 12:16	WG1229639
Di-isopropyl ether	U		0.000392	0.00112	1	01/29/2019 12:16	WG1229639
Ethylbenzene	U		0.000593	0.00280	1	01/29/2019 12:16	WG1229639
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	01/29/2019 12:16	WG1229639
2-Hexanone	U		0.0112	0.0280	1	01/29/2019 12:16	WG1229639
n-Hexane	U		0.00119	0.00560	1	01/29/2019 12:16	WG1229639
Iodomethane	U		0.00677	0.0140	1	01/29/2019 12:16	WG1229639
Isopropylbenzene	U		0.000966	0.00280	1	01/29/2019 12:16	WG1229639
p-Isopropyltoluene	U		0.00261	0.00560	1	01/29/2019 12:16	WG1229639
2-Butanone (MEK)	0.0327		0.0140	0.0280	1	01/30/2019 12:23	WG1229916 JC 3/5/19
Methylene Chloride	U		0.00743	0.0280	1	01/29/2019 12:16	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	01/29/2019 12:16	WG1229639

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	01/29/2019 12:16	WG1229639
Naphthalene	U		0.00349	0.0140	1	01/29/2019 12:16	WG1229639
n-Propylbenzene	U		0.00132	0.00560	1	01/29/2019 12:16	WG1229639
Styrene	U		0.00306	0.0140	1	01/29/2019 12:16	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000560	0.00280	1	01/29/2019 12:16	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000437	0.00280	1	01/29/2019 12:16	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000756	0.00280	1	01/29/2019 12:16	WG1229639
Tetrachloroethene	0.00102 J	J	0.000784	0.00280	1	01/29/2019 12:16	WG1229639
Toluene	U		0.00140	0.00560	1	01/29/2019 12:16	WG1229639
1,2,3-Trichlorobenzene	U		0.000700	0.00280	1	01/29/2019 12:16	WG1229639
1,2,4-Trichlorobenzene	U		0.00540	0.0140	1	01/29/2019 12:16	WG1229639
1,1,1-Trichloroethane	U		0.000308	0.00280	1	01/29/2019 12:16	WG1229639
1,1,2-Trichloroethane	U		0.000988	0.00280	1	01/29/2019 12:16	WG1229639
Trichloroethene	U		0.000448	0.00112	1	01/29/2019 12:16	WG1229639
Trichlorofluoromethane	U		0.000560	0.00280	1	01/29/2019 12:16	WG1229639
1,2,3-Trichloropropane	U		0.00571	0.0140	1	01/29/2019 12:16	WG1229639
1,2,4-Trimethylbenzene	U		0.00130	0.00560	1	01/29/2019 12:16	WG1229639
1,2,3-Trimethylbenzene	U		0.00129	0.00560	1	01/29/2019 12:16	WG1229639
1,3,5-Trimethylbenzene	U		0.00121	0.00560	1	01/29/2019 12:16	WG1229639
Vinyl acetate	U		0.00394	0.0140	1	01/29/2019 12:16	WG1229639
Vinyl chloride	0.0349		0.000765	0.00280	1	01/29/2019 12:16	WG1229639
Xylenes, Total	U		0.00535	0.00728	1	01/29/2019 12:16	WG1229639
(S) Toluene-d8	*105*			*75.0-131*		*01/29/2019 12:16*	WG1229639
(S) Toluene-d8	*94.4*			*75.0-131*		*01/30/2019 12:23*	WG1229916
(S) Dibromofluoromethane	*83.5*			*65.0-129*		*01/29/2019 12:16*	WG1229639
(S) Dibromofluoromethane	*109*			*65.0-129*		*01/30/2019 12:23*	WG1229916
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/29/2019 12:16*	WG1229639
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*01/30/2019 12:23*	WG1229916

JC 3/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.4		1	01/28/2019 15:36	WG1229369

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0281 U	B J J0	0.0160	0.0293	1	01/30/2019 12:42	WG1229916
Acrylonitrile	U		0.00223	0.0146	1	01/29/2019 12:36	WG1229639
Benzene	U		0.000468	0.00117	1	01/29/2019 12:36	WG1229639
Bromobenzene	U		0.00123	0.0146	1	01/29/2019 12:36	WG1229639
Bromodichloromethane	U		0.000923	0.00293	1	01/29/2019 12:36	WG1229639
Bromochloromethane	U		0.00132	0.00586	1	01/29/2019 12:36	WG1229639
Bromoform	U		0.00700	0.0293	1	01/29/2019 12:36	WG1229639
Bromomethane	U		0.00433	0.0146	1	01/29/2019 12:36	WG1229639
n-Butylbenzene	U		0.00450	0.0146	1	01/29/2019 12:36	WG1229639
sec-Butylbenzene	U		0.00296	0.0146	1	01/29/2019 12:36	WG1229639
tert-Butylbenzene	U		0.00182	0.00586	1	01/29/2019 12:36	WG1229639
Carbon disulfide	U		0.00476	0.0146	1	01/29/2019 12:36	WG1229639
Carbon tetrachloride	U		0.00126	0.00586	1	01/29/2019 12:36	WG1229639
Chlorobenzene	U		0.000671	0.00293	1	01/29/2019 12:36	WG1229639
Chlorodibromomethane	U		0.000527	0.00293	1	01/29/2019 12:36	WG1229639
Chloroethane	U		0.00126	0.00586	1	01/29/2019 12:36	WG1229639
Chloroform	0.00225 J	J	0.000486	0.00293	1	01/29/2019 12:36	WG1229639
Chloromethane	U		0.00163	0.0146	1	01/29/2019 12:36	WG1229639
2-Chlorotoluene	U		0.00108	0.00293	1	01/29/2019 12:36	WG1229639
4-Chlorotoluene	U		0.00132	0.00586	1	01/29/2019 12:36	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00597	0.0293	1	01/29/2019 12:36	WG1229639
1,2-Dibromoethane	U		0.000615	0.00293	1	01/29/2019 12:36	WG1229639
Dibromomethane	U		0.00117	0.00586	1	01/29/2019 12:36	WG1229639
1,2-Dichlorobenzene	U		0.00170	0.00586	1	01/29/2019 12:36	WG1229639
1,3-Dichlorobenzene	U		0.00199	0.00586	1	01/29/2019 12:36	WG1229639
1,4-Dichlorobenzene	U		0.00231	0.00586	1	01/29/2019 12:36	WG1229639
Dichlorodifluoromethane	U		0.000958	0.00293	1	01/29/2019 12:36	WG1229639
1,1-Dichloroethane	U		0.000673	0.00293	1	01/29/2019 12:36	WG1229639
1,2-Dichloroethane	U		0.000556	0.00293	1	01/29/2019 12:36	WG1229639
1,1-Dichloroethene	U		0.000586	0.00293	1	01/29/2019 12:36	WG1229639
cis-1,2-Dichloroethene	0.0870		0.000808	0.00293	1	01/29/2019 12:36	WG1229639
trans-1,2-Dichloroethene	0.00250 J	J	0.00167	0.00586	1	01/29/2019 12:36	WG1229639
1,2-Dichloropropane	U		0.00149	0.00586	1	01/30/2019 12:42	WG1229916
1,1-Dichloropropene	U		0.000820	0.00293	1	01/29/2019 12:36	WG1229639
1,3-Dichloropropane	U		0.00205	0.00586	1	01/29/2019 12:36	WG1229639
cis-1,3-Dichloropropene	U		0.000794	0.00293	1	01/29/2019 12:36	WG1229639
trans-1,3-Dichloropropene	U		0.00179	0.00586	1	01/29/2019 12:36	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00164	0.00586	1	01/29/2019 12:36	WG1229639
2,2-Dichloropropane	U		0.000929	0.00293	1	01/29/2019 12:36	WG1229639
Di-isopropyl ether	U		0.000410	0.00117	1	01/29/2019 12:36	WG1229639
Ethylbenzene	U		0.000621	0.00293	1	01/29/2019 12:36	WG1229639
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1	01/29/2019 12:36	WG1229639
2-Hexanone	U		0.0117	0.0293	1	01/29/2019 12:36	WG1229639
n-Hexane	U		0.00124	0.00586	1	01/29/2019 12:36	WG1229639
Iodomethane	U		0.00709	0.0146	1	01/29/2019 12:36	WG1229639
Isopropylbenzene	U		0.00101	0.00293	1	01/29/2019 12:36	WG1229639
p-Isopropyltoluene	U		0.00273	0.00586	1	01/29/2019 12:36	WG1229639
2-Butanone (MEK)	0.0262 J	J	0.0146	0.0293	1	01/30/2019 12:42	WG1229916
Methylene Chloride	U		0.00778	0.0293	1	01/29/2019 12:36	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1	01/29/2019 12:36	WG1229639

JC 3/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000346	0.00117	1	01/29/2019 12:36	WG1229639
Naphthalene	U		0.00365	0.0146	1	01/29/2019 12:36	WG1229639
n-Propylbenzene	U		0.00138	0.00586	1	01/29/2019 12:36	WG1229639
Styrene	U		0.00320	0.0146	1	01/29/2019 12:36	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000586	0.00293	1	01/29/2019 12:36	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000457	0.00293	1	01/29/2019 12:36	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000791	0.00293	1	01/29/2019 12:36	WG1229639
Tetrachloroethene	0.428		0.000820	0.00293	1	01/29/2019 12:36	WG1229639
Toluene	U		0.00146	0.00586	1	01/29/2019 12:36	WG1229639
1,2,3-Trichlorobenzene	U		0.000732	0.00293	1	01/29/2019 12:36	WG1229639
1,2,4-Trichlorobenzene	U		0.00565	0.0146	1	01/29/2019 12:36	WG1229639
1,1,1-Trichloroethane	U		0.000322	0.00293	1	01/29/2019 12:36	WG1229639
1,1,2-Trichloroethane	U		0.00103	0.00293	1	01/29/2019 12:36	WG1229639
Trichloroethene	0.0599		0.000468	0.00117	1	01/29/2019 12:36	WG1229639
Trichlorofluoromethane	U		0.000586	0.00293	1	01/29/2019 12:36	WG1229639
1,2,3-Trichloropropane	U		0.00597	0.0146	1	01/29/2019 12:36	WG1229639
1,2,4-Trimethylbenzene	U		0.00136	0.00586	1	01/29/2019 12:36	WG1229639
1,2,3-Trimethylbenzene	U		0.00135	0.00586	1	01/29/2019 12:36	WG1229639
1,3,5-Trimethylbenzene	U		0.00126	0.00586	1	01/29/2019 12:36	WG1229639
Vinyl acetate	U		0.00412	0.0146	1	01/29/2019 12:36	WG1229639
Vinyl chloride	0.0101		0.000800	0.00293	1	01/29/2019 12:36	WG1229639
Xylenes, Total	U		0.00560	0.00761	1	01/29/2019 12:36	WG1229639
(S) Toluene-d8	*111*			*75.0-131*		*01/29/2019 12:36*	WG1229639
(S) Toluene-d8	*98.0*			*75.0-131*		*01/30/2019 12:42*	WG1229916
(S) Dibromofluoromethane	*85.0*			*65.0-129*		*01/29/2019 12:36*	WG1229639
(S) Dibromofluoromethane	*109*			*65.0-129*		*01/30/2019 12:42*	WG1229916
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*01/29/2019 12:36*	WG1229639
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*01/30/2019 12:42*	WG1229916

JC 3/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.6		1	01/28/2019 15:36	WG1229369

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0365 J	B J0	0.0164	0.0299	1	01/30/2019 13:01	WG1229916
Acrylonitrile	U		0.00227	0.0149	1	01/29/2019 12:56	WG1229639
Benzene	U		0.000478	0.00120	1	01/29/2019 12:56	WG1229639
Bromobenzene	U		0.00126	0.0149	1	01/29/2019 12:56	WG1229639
Bromodichloromethane	U		0.000942	0.00299	1	01/29/2019 12:56	WG1229639
Bromochloromethane	U		0.00135	0.00598	1	01/29/2019 12:56	WG1229639
Bromoform	U		0.00715	0.0299	1	01/29/2019 12:56	WG1229639
Bromomethane	U		0.00442	0.0149	1	01/29/2019 12:56	WG1229639
n-Butylbenzene	U		0.00459	0.0149	1	01/29/2019 12:56	WG1229639
sec-Butylbenzene	U		0.00303	0.0149	1	01/29/2019 12:56	WG1229639
tert-Butylbenzene	U		0.00185	0.00598	1	01/29/2019 12:56	WG1229639
Carbon disulfide	U		0.00486	0.0149	1	01/29/2019 12:56	WG1229639
Carbon tetrachloride	U		0.00129	0.00598	1	01/29/2019 12:56	WG1229639
Chlorobenzene	U		0.000685	0.00299	1	01/29/2019 12:56	WG1229639
Chlorodibromomethane	U		0.000538	0.00299	1	01/29/2019 12:56	WG1229639
Chloroethane	U		0.00129	0.00598	1	01/29/2019 12:56	WG1229639
Chloroform	0.00196 J	J	0.000496	0.00299	1	01/29/2019 12:56	WG1229639
Chloromethane	U		0.00166	0.0149	1	01/29/2019 12:56	WG1229639
2-Chlorotoluene	U		0.00110	0.00299	1	01/29/2019 12:56	WG1229639
4-Chlorotoluene	U		0.00135	0.00598	1	01/29/2019 12:56	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00610	0.0299	1	01/29/2019 12:56	WG1229639
1,2-Dibromoethane	U		0.000628	0.00299	1	01/29/2019 12:56	WG1229639
Dibromomethane	U		0.00120	0.00598	1	01/29/2019 12:56	WG1229639
1,2-Dichlorobenzene	U		0.00173	0.00598	1	01/29/2019 12:56	WG1229639
1,3-Dichlorobenzene	U		0.00203	0.00598	1	01/29/2019 12:56	WG1229639
1,4-Dichlorobenzene	U		0.00236	0.00598	1	01/29/2019 12:56	WG1229639
Dichlorodifluoromethane	U		0.000978	0.00299	1	01/29/2019 12:56	WG1229639
1,1-Dichloroethane	U		0.000688	0.00299	1	01/29/2019 12:56	WG1229639
1,2-Dichloroethane	U		0.000568	0.00299	1	01/29/2019 12:56	WG1229639
1,1-Dichloroethene	U		0.000598	0.00299	1	01/29/2019 12:56	WG1229639
cis-1,2-Dichloroethene	0.474		0.000825	0.00299	1	01/29/2019 12:56	WG1229639
trans-1,2-Dichloroethene	0.00379 J	J	0.00171	0.00598	1	01/29/2019 12:56	WG1229639
1,2-Dichloropropane	U		0.00152	0.00598	1	01/30/2019 13:01	WG1229916
1,1-Dichloropropene	U		0.000837	0.00299	1	01/29/2019 12:56	WG1229639
1,3-Dichloropropane	U		0.00209	0.00598	1	01/29/2019 12:56	WG1229639
cis-1,3-Dichloropropene	U		0.000811	0.00299	1	01/29/2019 12:56	WG1229639
trans-1,3-Dichloropropene	U		0.00183	0.00598	1	01/29/2019 12:56	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00167	0.00598	1	01/29/2019 12:56	WG1229639
2,2-Dichloropropane	U		0.000948	0.00299	1	01/29/2019 12:56	WG1229639
Di-isopropyl ether	U		0.000419	0.00120	1	01/29/2019 12:56	WG1229639
Ethylbenzene	U		0.000634	0.00299	1	01/29/2019 12:56	WG1229639
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	01/29/2019 12:56	WG1229639
2-Hexanone	U		0.0120	0.0299	1	01/29/2019 12:56	WG1229639
n-Hexane	U		0.00127	0.00598	1	01/29/2019 12:56	WG1229639
Iodomethane	U		0.00723	0.0149	1	01/29/2019 12:56	WG1229639
Isopropylbenzene	U		0.00103	0.00299	1	01/29/2019 12:56	WG1229639
p-Isopropyltoluene	U		0.00279	0.00598	1	01/29/2019 12:56	WG1229639
2-Butanone (MEK)	0.0435		0.0149	0.0299	1	01/30/2019 13:01	WG1229916
Methylene Chloride	U		0.00794	0.0299	1	01/29/2019 12:56	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1	01/29/2019 12:56	WG1229639

JC 3/5/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1	01/29/2019 12:56	WG1229639
Naphthalene	U		0.00373	0.0149	1	01/29/2019 12:56	WG1229639
n-Propylbenzene	U		0.00141	0.00598	1	01/29/2019 12:56	WG1229639
Styrene	U		0.00326	0.0149	1	01/29/2019 12:56	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000598	0.00299	1	01/29/2019 12:56	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000466	0.00299	1	01/29/2019 12:56	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000807	0.00299	1	01/29/2019 12:56	WG1229639
Tetrachloroethene	0.788		0.000837	0.00299	1	01/29/2019 12:56	WG1229639
Toluene	U		0.00149	0.00598	1	01/29/2019 12:56	WG1229639
1,2,3-Trichlorobenzene	U		0.000747	0.00299	1	01/29/2019 12:56	WG1229639
1,2,4-Trichlorobenzene	U		0.00576	0.0149	1	01/29/2019 12:56	WG1229639
1,1,1-Trichloroethane	U		0.000329	0.00299	1	01/29/2019 12:56	WG1229639
1,1,2-Trichloroethane	U		0.00106	0.00299	1	01/29/2019 12:56	WG1229639
Trichloroethene	0.172		0.000478	0.00120	1	01/29/2019 12:56	WG1229639
Trichlorofluoromethane	U		0.000598	0.00299	1	01/29/2019 12:56	WG1229639
1,2,3-Trichloropropane	U		0.00610	0.0149	1	01/29/2019 12:56	WG1229639
1,2,4-Trimethylbenzene	U		0.00139	0.00598	1	01/29/2019 12:56	WG1229639
1,2,3-Trimethylbenzene	U		0.00138	0.00598	1	01/29/2019 12:56	WG1229639
1,3,5-Trimethylbenzene	U		0.00129	0.00598	1	01/29/2019 12:56	WG1229639
Vinyl acetate	U		0.00421	0.0149	1	01/29/2019 12:56	WG1229639
Vinyl chloride	0.00420		0.000817	0.00299	1	01/29/2019 12:56	WG1229639
Xylenes, Total	U		0.00572	0.00777	1	01/29/2019 12:56	WG1229639
(S) Toluene-d8	*112*			*75.0-131*		*01/29/2019 12:56*	WG1229639
(S) Toluene-d8	*96.7*			*75.0-131*		*01/30/2019 13:01*	WG1229916
(S) Dibromofluoromethane	*81.8*			*65.0-129*		*01/29/2019 12:56*	WG1229639
(S) Dibromofluoromethane	*109*			*65.0-129*		*01/30/2019 13:01*	WG1229916
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/29/2019 12:56*	WG1229639
(S) 4-Bromofluorobenzene	*116*			*67.0-138*		*01/30/2019 13:01*	WG1229916

JC 3/5/19

MW-164-100

Collected date/time: 01/25/19 09:30

SAMPLE RESULTS - 05

L1064712

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.0		1	01/28/2019 15:36	WG1229369

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0332 J	B J0	0.0171	0.0313	1	01/30/2019 13:20	WG1229916	
Acrylonitrile	U		0.00238	0.0156	1	01/29/2019 13:15	WG1229639	
Benzene	U		0.000500	0.00125	1	01/29/2019 13:15	WG1229639	
Bromobenzene	U		0.00131	0.0156	1	01/29/2019 13:15	WG1229639	
Bromodichloromethane	U		0.000985	0.00313	1	01/29/2019 13:15	WG1229639	
Bromochloromethane	U		0.00141	0.00625	1	01/29/2019 13:15	WG1229639	
Bromoform	U		0.00748	0.0313	1	01/29/2019 13:15	WG1229639	
Bromomethane	U		0.00463	0.0156	1	01/29/2019 13:15	WG1229639	
n-Butylbenzene	U		0.00480	0.0156	1	01/29/2019 13:15	WG1229639	
sec-Butylbenzene	U		0.00316	0.0156	1	01/29/2019 13:15	WG1229639	
tert-Butylbenzene	U		0.00194	0.00625	1	01/29/2019 13:15	WG1229639	
Carbon disulfide	U		0.00508	0.0156	1	01/29/2019 13:15	WG1229639	
Carbon tetrachloride	U		0.00135	0.00625	1	01/29/2019 13:15	WG1229639	
Chlorobenzene	U		0.000716	0.00313	1	01/29/2019 13:15	WG1229639	
Chlorodibromomethane	U		0.000563	0.00313	1	01/29/2019 13:15	WG1229639	
Chloroethane	U		0.00135	0.00625	1	01/29/2019 13:15	WG1229639	
Chloroform	0.00197 J	J	0.000519	0.00313	1	01/29/2019 13:15	WG1229639	
Chloromethane	U		0.00174	0.0156	1	01/29/2019 13:15	WG1229639	
2-Chlorotoluene	U		0.00115	0.00313	1	01/29/2019 13:15	WG1229639	
4-Chlorotoluene	U		0.00141	0.00625	1	01/29/2019 13:15	WG1229639	
1,2-Dibromo-3-Chloropropane	U		0.00638	0.0313	1	01/29/2019 13:15	WG1229639	
1,2-Dibromoethane	U		0.000656	0.00313	1	01/29/2019 13:15	WG1229639	
Dibromomethane	U		0.00125	0.00625	1	01/29/2019 13:15	WG1229639	
1,2-Dichlorobenzene	U		0.00181	0.00625	1	01/29/2019 13:15	WG1229639	
1,3-Dichlorobenzene	U		0.00213	0.00625	1	01/29/2019 13:15	WG1229639	
1,4-Dichlorobenzene	U		0.00246	0.00625	1	01/29/2019 13:15	WG1229639	
Dichlorodifluoromethane	U		0.00102	0.00313	1	01/29/2019 13:15	WG1229639	
1,1-Dichloroethane	U		0.000719	0.00313	1	01/29/2019 13:15	WG1229639	
1,2-Dichloroethane	U		0.000594	0.00313	1	01/29/2019 13:15	WG1229639	
1,1-Dichloroethene	U		0.000625	0.00313	1	01/29/2019 13:15	WG1229639	
cis-1,2-Dichloroethene	0.00428		0.000863	0.00313	1	01/29/2019 13:15	WG1229639	
trans-1,2-Dichloroethene	U		0.00179	0.00625	1	01/29/2019 13:15	WG1229639	
1,2-Dichloropropane	U		0.00159	0.00625	1	01/30/2019 13:20	WG1229916	
1,1-Dichloropropene	U		0.000875	0.00313	1	01/29/2019 13:15	WG1229639	
1,3-Dichloropropane	U		0.00219	0.00625	1	01/29/2019 13:15	WG1229639	
cis-1,3-Dichloropropene	U		0.000848	0.00313	1	01/29/2019 13:15	WG1229639	
trans-1,3-Dichloropropene	U		0.00191	0.00625	1	01/29/2019 13:15	WG1229639	
trans-1,4-Dichloro-2-butene	U		0.00175	0.00625	1	01/29/2019 13:15	WG1229639	
2,2-Dichloropropane	U		0.000991	0.00313	1	01/29/2019 13:15	WG1229639	
Di-isopropyl ether	U		0.000438	0.00125	1	01/29/2019 13:15	WG1229639	
Ethylbenzene	U		0.000663	0.00313	1	01/29/2019 13:15	WG1229639	
Hexachloro-1,3-butadiene	U		0.0159	0.0313	1	01/29/2019 13:15	WG1229639	
2-Hexanone	U		0.0125	0.0313	1	01/29/2019 13:15	WG1229639	
n-Hexane	U		0.00133	0.00625	1	01/29/2019 13:15	WG1229639	
Iodomethane	U		0.00756	0.0156	1	01/29/2019 13:15	WG1229639	
Isopropylbenzene	U		0.00108	0.00313	1	01/29/2019 13:15	WG1229639	
p-Isopropyltoluene	U		0.00291	0.00625	1	01/29/2019 13:15	WG1229639	
2-Butanone (MEK)	0.0446		0.0156	0.0313	1	01/30/2019 13:20	WG1229916	
Methylene Chloride	U		0.00830	0.0313	1	01/29/2019 13:15	WG1229639	JC 3/5/19
4-Methyl-2-pentanone (MIBK)	U		0.0125	0.0313	1	01/29/2019 13:15	WG1229639	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000369	0.00125	1	01/29/2019 13:15	WG1229639
Naphthalene	U		0.00390	0.0156	1	01/29/2019 13:15	WG1229639
n-Propylbenzene	U		0.00148	0.00625	1	01/29/2019 13:15	WG1229639
Styrene	U		0.00341	0.0156	1	01/29/2019 13:15	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000625	0.00313	1	01/29/2019 13:15	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000488	0.00313	1	01/29/2019 13:15	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000844	0.00313	1	01/29/2019 13:15	WG1229639
Tetrachloroethene	0.00777		0.000875	0.00313	1	01/29/2019 13:15	WG1229639
Toluene	U		0.00156	0.00625	1	01/29/2019 13:15	WG1229639
1,2,3-Trichlorobenzene	U		0.000781	0.00313	1	01/29/2019 13:15	WG1229639
1,2,4-Trichlorobenzene	U		0.00603	0.0156	1	01/29/2019 13:15	WG1229639
1,1,1-Trichloroethane	U		0.000344	0.00313	1	01/29/2019 13:15	WG1229639
1,1,2-Trichloroethane	U		0.00110	0.00313	1	01/29/2019 13:15	WG1229639
Trichloroethene	0.0124		0.000500	0.00125	1	01/29/2019 13:15	WG1229639
Trichlorofluoromethane	U		0.000625	0.00313	1	01/29/2019 13:15	WG1229639
1,2,3-Trichloropropane	U		0.00638	0.0156	1	01/29/2019 13:15	WG1229639
1,2,4-Trimethylbenzene	U		0.00145	0.00625	1	01/29/2019 13:15	WG1229639
1,2,3-Trimethylbenzene	U		0.00144	0.00625	1	01/29/2019 13:15	WG1229639
1,3,5-Trimethylbenzene	U		0.00135	0.00625	1	01/29/2019 13:15	WG1229639
Vinyl acetate	U		0.00440	0.0156	1	01/29/2019 13:15	WG1229639
Vinyl chloride	0.00145 J	J	0.000854	0.00313	1	01/29/2019 13:15	WG1229639
Xylenes, Total	U		0.00598	0.00813	1	01/29/2019 13:15	WG1229639
(S) Toluene-d8	*112*			*75.0-131*		*01/29/2019 13:15*	WG1229639
(S) Toluene-d8	*99.0*			*75.0-131*		*01/30/2019 13:20*	WG1229916
(S) Dibromofluoromethane	*83.8*			*65.0-129*		*01/29/2019 13:15*	WG1229639
(S) Dibromofluoromethane	*111*			*65.0-129*		*01/30/2019 13:20*	WG1229916
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*01/29/2019 13:15*	WG1229639
(S) 4-Bromofluorobenzene	*115*			*67.0-138*		*01/30/2019 13:20*	WG1229916

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.2		1	01/28/2019 15:36	WG1229369

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0311 J	B J0	0.0152	0.0277	1	01/30/2019 13:39	WG1230028
Acrylonitrile	U		0.00211	0.0139	1	01/29/2019 15:57	WG1229639
Benzene	U		0.000444	0.00111	1	01/29/2019 15:57	WG1229639
Bromobenzene	U		0.00116	0.0139	1	01/29/2019 15:57	WG1229639
Bromodichloromethane	U		0.000874	0.00277	1	01/29/2019 15:57	WG1229639
Bromochloromethane	U		0.00125	0.00555	1	01/29/2019 15:57	WG1229639
Bromoform	U		0.00663	0.0277	1	01/29/2019 15:57	WG1229639
Bromomethane	U		0.00410	0.0139	1	01/29/2019 15:57	WG1229639
n-Butylbenzene	U		0.00426	0.0139	1	01/29/2019 15:57	WG1229639
sec-Butylbenzene	U		0.00281	0.0139	1	01/29/2019 15:57	WG1229639
tert-Butylbenzene	U		0.00172	0.00555	1	01/29/2019 15:57	WG1229639
Carbon disulfide	U		0.00450	0.0139	1	01/29/2019 15:57	WG1229639
Carbon tetrachloride	U		0.00120	0.00555	1	01/29/2019 15:57	WG1229639
Chlorobenzene	U		0.000635	0.00277	1	01/29/2019 15:57	WG1229639
Chlorodibromomethane	U		0.000499	0.00277	1	01/29/2019 15:57	WG1229639
Chloroethane	U		0.00120	0.00555	1	01/29/2019 15:57	WG1229639
Chloroform	U		0.000460	0.00277	1	01/29/2019 15:57	WG1229639
Chloromethane	U		0.00154	0.0139	1	01/29/2019 15:57	WG1229639
2-Chlorotoluene	U		0.00102	0.00277	1	01/29/2019 15:57	WG1229639
4-Chlorotoluene	U		0.00125	0.00555	1	01/29/2019 15:57	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00566	0.0277	1	01/29/2019 15:57	WG1229639
1,2-Dibromoethane	U		0.000582	0.00277	1	01/29/2019 15:57	WG1229639
Dibromomethane	U		0.00111	0.00555	1	01/29/2019 15:57	WG1229639
1,2-Dichlorobenzene	U		0.00161	0.00555	1	01/29/2019 15:57	WG1229639
1,3-Dichlorobenzene	U		0.00189	0.00555	1	01/29/2019 15:57	WG1229639
1,4-Dichlorobenzene	U		0.00218	0.00555	1	01/29/2019 15:57	WG1229639
Dichlorodifluoromethane	U		0.000907	0.00277	1	01/29/2019 15:57	WG1229639
1,1-Dichloroethane	U		0.000638	0.00277	1	01/29/2019 15:57	WG1229639
1,2-Dichloroethane	U		0.000527	0.00277	1	01/29/2019 15:57	WG1229639
1,1-Dichloroethene	U		0.000555	0.00277	1	01/29/2019 15:57	WG1229639
cis-1,2-Dichloroethene	0.00442		0.000765	0.00277	1	01/29/2019 15:57	WG1229639
trans-1,2-Dichloroethene	U		0.00159	0.00555	1	01/29/2019 15:57	WG1229639
1,2-Dichloropropane	U		0.00141	0.00555	1	01/30/2019 13:39	WG1230028
1,1-Dichloropropene	U		0.000776	0.00277	1	01/29/2019 15:57	WG1229639
1,3-Dichloropropane	U		0.00194	0.00555	1	01/29/2019 15:57	WG1229639
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	01/29/2019 15:57	WG1229639
trans-1,3-Dichloropropene	U		0.00170	0.00555	1	01/29/2019 15:57	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00155	0.00555	1	01/29/2019 15:57	WG1229639
2,2-Dichloropropane	U		0.000879	0.00277	1	01/29/2019 15:57	WG1229639
Di-isopropyl ether	U		0.000388	0.00111	1	01/29/2019 15:57	WG1229639
Ethylbenzene	U		0.000588	0.00277	1	01/29/2019 15:57	WG1229639
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	01/29/2019 15:57	WG1229639
2-Hexanone	U		0.0111	0.0277	1	01/29/2019 15:57	WG1229639
n-Hexane	U		0.00118	0.00555	1	01/29/2019 15:57	WG1229639
Iodomethane	U		0.00671	0.0139	1	01/29/2019 15:57	WG1229639
Isopropylbenzene	U		0.000957	0.00277	1	01/29/2019 15:57	WG1229639
p-Isopropyltoluene	U		0.00258	0.00555	1	01/29/2019 15:57	WG1229639
2-Butanone (MEK)	0.0328		0.0139	0.0277	1	01/30/2019 13:39	WG1230028
Methylene Chloride	U		0.00736	0.0277	1	01/29/2019 15:57	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	01/29/2019 15:57	WG1229639

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000327	0.00111	1	01/29/2019 15:57	WG1229639
Naphthalene	U		0.00346	0.0139	1	01/29/2019 15:57	WG1229639
n-Propylbenzene	U		0.00131	0.00555	1	01/29/2019 15:57	WG1229639
Styrene	U		0.00303	0.0139	1	01/29/2019 15:57	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000555	0.00277	1	01/29/2019 15:57	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000433	0.00277	1	01/29/2019 15:57	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000749	0.00277	1	01/29/2019 15:57	WG1229639
Tetrachloroethene	0.00369		0.000776	0.00277	1	01/29/2019 15:57	WG1229639
Toluene	0.00150 J	J	0.00139	0.00555	1	01/29/2019 15:57	WG1229639
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	01/29/2019 15:57	WG1229639
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	01/29/2019 15:57	WG1229639
1,1,1-Trichloroethane	U		0.000305	0.00277	1	01/29/2019 15:57	WG1229639
1,1,2-Trichloroethane	U		0.000979	0.00277	1	01/29/2019 15:57	WG1229639
Trichloroethene	U		0.000444	0.00111	1	01/29/2019 15:57	WG1229639
Trichlorofluoromethane	U		0.000555	0.00277	1	01/29/2019 15:57	WG1229639
1,2,3-Trichloropropane	U		0.00566	0.0139	1	01/29/2019 15:57	WG1229639
1,2,4-Trimethylbenzene	U		0.00129	0.00555	1	01/29/2019 15:57	WG1229639
1,2,3-Trimethylbenzene	U		0.00128	0.00555	1	01/29/2019 15:57	WG1229639
1,3,5-Trimethylbenzene	U		0.00120	0.00555	1	01/29/2019 15:57	WG1229639
Vinyl acetate	U		0.00390	0.0139	1	01/29/2019 15:57	WG1229639
Vinyl chloride	0.00428		0.000757	0.00277	1	01/29/2019 15:57	WG1229639
Xylenes, Total	U		0.00530	0.00721	1	01/29/2019 15:57	WG1229639
(S) Toluene-d8	*114*			*75.0-131*		*01/29/2019 15:57*	WG1229639
(S) Toluene-d8	*97.5*			*75.0-131*		*01/30/2019 13:39*	WG1230028
(S) Dibromofluoromethane	*78.8*			*65.0-129*		*01/29/2019 15:57*	WG1229639
(S) Dibromofluoromethane	*111*			*65.0-129*		*01/30/2019 13:39*	WG1230028
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*01/29/2019 15:57*	WG1229639
(S) 4-Bromofluorobenzene	*117*			*67.0-138*		*01/30/2019 13:39*	WG1230028

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.7		1	01/28/2019 15:36	WG1229369

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0374 J	B J0	0.0151	0.0276	1	01/30/2019 13:58	WG1230028
Acrylonitrile	U		0.00210	0.0138	1	01/29/2019 16:18	WG1229639
Benzene	U		0.000441	0.00110	1	01/29/2019 16:18	WG1229639
Bromobenzene	U		0.00116	0.0138	1	01/29/2019 16:18	WG1229639
Bromodichloromethane	U		0.000869	0.00276	1	01/29/2019 16:18	WG1229639
Bromochloromethane	U		0.00125	0.00551	1	01/29/2019 16:18	WG1229639
Bromoform	U		0.00659	0.0276	1	01/29/2019 16:18	WG1229639
Bromomethane	U		0.00408	0.0138	1	01/29/2019 16:18	WG1229639
n-Butylbenzene	U		0.00423	0.0138	1	01/29/2019 16:18	WG1229639
sec-Butylbenzene	U		0.00279	0.0138	1	01/29/2019 16:18	WG1229639
tert-Butylbenzene	U		0.00171	0.00551	1	01/29/2019 16:18	WG1229639
Carbon disulfide	U		0.00448	0.0138	1	01/29/2019 16:18	WG1229639
Carbon tetrachloride	U		0.00119	0.00551	1	01/29/2019 16:18	WG1229639
Chlorobenzene	U		0.000632	0.00276	1	01/29/2019 16:18	WG1229639
Chlorodibromomethane	U		0.000496	0.00276	1	01/29/2019 16:18	WG1229639
Chloroethane	U		0.00119	0.00551	1	01/29/2019 16:18	WG1229639
Chloroform	U		0.000458	0.00276	1	01/29/2019 16:18	WG1229639
Chloromethane	U		0.00153	0.0138	1	01/29/2019 16:18	WG1229639
2-Chlorotoluene	U		0.00101	0.00276	1	01/29/2019 16:18	WG1229639
4-Chlorotoluene	U		0.00125	0.00551	1	01/29/2019 16:18	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00562	0.0276	1	01/29/2019 16:18	WG1229639
1,2-Dibromoethane	U		0.000579	0.00276	1	01/29/2019 16:18	WG1229639
Dibromomethane	U		0.00110	0.00551	1	01/29/2019 16:18	WG1229639
1,2-Dichlorobenzene	U		0.00160	0.00551	1	01/29/2019 16:18	WG1229639
1,3-Dichlorobenzene	U		0.00187	0.00551	1	01/29/2019 16:18	WG1229639
1,4-Dichlorobenzene	U		0.00217	0.00551	1	01/29/2019 16:18	WG1229639
Dichlorodifluoromethane	U		0.000902	0.00276	1	01/29/2019 16:18	WG1229639
1,1-Dichloroethane	U		0.000634	0.00276	1	01/29/2019 16:18	WG1229639
1,2-Dichloroethane	U		0.000524	0.00276	1	01/29/2019 16:18	WG1229639
1,1-Dichloroethene	U		0.000551	0.00276	1	01/29/2019 16:18	WG1229639
cis-1,2-Dichloroethene	U		0.000761	0.00276	1	01/29/2019 16:18	WG1229639
trans-1,2-Dichloroethene	U		0.00158	0.00551	1	01/29/2019 16:18	WG1229639
1,2-Dichloropropane	U		0.00140	0.00551	1	01/30/2019 13:58	WG1230028
1,1-Dichloropropene	U		0.000772	0.00276	1	01/29/2019 16:18	WG1229639
1,3-Dichloropropane	U		0.00193	0.00551	1	01/29/2019 16:18	WG1229639
cis-1,3-Dichloropropene	U		0.000748	0.00276	1	01/29/2019 16:18	WG1229639
trans-1,3-Dichloropropene	U		0.00169	0.00551	1	01/29/2019 16:18	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	01/29/2019 16:18	WG1229639
2,2-Dichloropropane	U		0.000875	0.00276	1	01/29/2019 16:18	WG1229639
Di-isopropyl ether	U		0.000386	0.00110	1	01/29/2019 16:18	WG1229639
Ethylbenzene	U		0.000584	0.00276	1	01/29/2019 16:18	WG1229639
Hexachloro-1,3-butadiene	U		0.0140	0.0276	1	01/29/2019 16:18	WG1229639
2-Hexanone	U		0.0110	0.0276	1	01/29/2019 16:18	WG1229639
n-Hexane	U		0.00117	0.00551	1	01/29/2019 16:18	WG1229639
Iodomethane	U		0.00667	0.0138	1	01/29/2019 16:18	WG1229639
Isopropylbenzene	U		0.000952	0.00276	1	01/29/2019 16:18	WG1229639
p-Isopropyltoluene	U		0.00257	0.00551	1	01/29/2019 16:18	WG1229639
2-Butanone (MEK)	0.0322		0.0138	0.0276	1	01/30/2019 13:58	WG1230028
Methylene Chloride	U		0.00732	0.0276	1	01/29/2019 16:18	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0276	1	01/29/2019 16:18	WG1229639

JC 3/5/19

MW-164-110

Collected date/time: 01/25/19 09:10

SAMPLE RESULTS - 07

L1064712

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	01/29/2019 16:18	WG1229639
Naphthalene	U		0.00344	0.0138	1	01/29/2019 16:18	WG1229639
n-Propylbenzene	U		0.00130	0.00551	1	01/29/2019 16:18	WG1229639
Styrene	U		0.00301	0.0138	1	01/29/2019 16:18	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000551	0.00276	1	01/29/2019 16:18	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000430	0.00276	1	01/29/2019 16:18	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00276	1	01/29/2019 16:18	WG1229639
Tetrachloroethene	U		0.000772	0.00276	1	01/29/2019 16:18	WG1229639
Toluene	U		0.00138	0.00551	1	01/29/2019 16:18	WG1229639
1,2,3-Trichlorobenzene	U		0.000689	0.00276	1	01/29/2019 16:18	WG1229639
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	01/29/2019 16:18	WG1229639
1,1,1-Trichloroethane	U		0.000303	0.00276	1	01/29/2019 16:18	WG1229639
1,1,2-Trichloroethane	U		0.000974	0.00276	1	01/29/2019 16:18	WG1229639
Trichloroethene	U		0.000441	0.00110	1	01/29/2019 16:18	WG1229639
Trichlorofluoromethane	U		0.000551	0.00276	1	01/29/2019 16:18	WG1229639
1,2,3-Trichloropropane	U		0.00562	0.0138	1	01/29/2019 16:18	WG1229639
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	01/29/2019 16:18	WG1229639
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	01/29/2019 16:18	WG1229639
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	01/29/2019 16:18	WG1229639
Vinyl acetate	U		0.00388	0.0138	1	01/29/2019 16:18	WG1229639
Vinyl chloride	U		0.000753	0.00276	1	01/29/2019 16:18	WG1229639
Xylenes, Total	U		0.00527	0.00717	1	01/29/2019 16:18	WG1229639
(S) Toluene-d8	*116*			*75.0-131*		*01/29/2019 16:18*	WG1229639
(S) Toluene-d8	*96.7*			*75.0-131*		*01/30/2019 13:58*	WG1230028
(S) Dibromofluoromethane	*79.1*			*65.0-129*		*01/29/2019 16:18*	WG1229639
(S) Dibromofluoromethane	*115*			*65.0-129*		*01/30/2019 13:58*	WG1230028
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/29/2019 16:18*	WG1229639
(S) 4-Bromofluorobenzene	*117*			*67.0-138*		*01/30/2019 13:58*	WG1230028

JC 3/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/28/2019 17:55	WG1229314
Acrylonitrile	U		0.873	5.00	1	01/28/2019 17:55	WG1229314
Benzene	U		0.0896	0.500	1	01/28/2019 17:55	WG1229314
Bromobenzene	U		0.133	0.500	1	01/28/2019 17:55	WG1229314
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 17:55	WG1229314
Bromochloromethane	U		0.145	0.500	1	01/28/2019 17:55	WG1229314
Bromoform	U		0.186	0.500	1	01/28/2019 17:55	WG1229314
Bromomethane	U		0.157	2.50	1	01/28/2019 17:55	WG1229314
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 17:55	WG1229314
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 17:55	WG1229314
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 17:55	WG1229314
Carbon disulfide	U		0.101	0.500	1	01/28/2019 17:55	WG1229314
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 17:55	WG1229314
Chlorobenzene	U		0.140	0.500	1	01/28/2019 17:55	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 17:55	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 17:55	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 17:55	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 17:55	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 17:55	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 17:55	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 17:55	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 17:55	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 17:55	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 17:55	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 17:55	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 17:55	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 17:55	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 17:55	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 17:55	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 17:55	WG1229314
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/28/2019 17:55	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 17:55	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 17:55	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 17:55	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 17:55	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 17:55	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 17:55	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 17:55	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 17:55	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 17:55	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 17:55	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 17:55	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 17:55	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 17:55	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 17:55	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 17:55	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 17:55	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 17:55	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 17:55	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 17:55	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 17:55	WG1229314
Naphthalene	U		0.174	2.50	1	01/28/2019 17:55	WG1229314
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 17:55	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 17:55	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 17:55	WG1229314
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/28/2019 17:55	WG1229314

JC 3/5/19

TB-012519
Collected date/time: 01/25/19 12:30

SAMPLE RESULTS - 08

L1064712

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 17:55	WG1229314
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 17:55	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 17:55	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 17:55	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 17:55	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 17:55	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 17:55	WG1229314
Trichloroethene	U		0.153	0.500	1	01/28/2019 17:55	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 17:55	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 17:55	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 17:55	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 17:55	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 17:55	WG1229314
Vinyl acetate	U UJ	J0	0.645	5.00	1	01/28/2019 18:57	WG1229419
Vinyl chloride	U		0.118	0.500	1	01/28/2019 17:55	WG1229314
Xylenes, Total	U		0.316	1.50	1	01/28/2019 17:55	WG1229314
(S) Toluene-d8	*107*			*80.0-120*		*01/28/2019 17:55*	WG1229314
(S) Toluene-d8	*113*			*80.0-120*		*01/28/2019 18:57*	WG1229419
(S) Dibromofluoromethane	*97.9*			*75.0-120*		*01/28/2019 17:55*	WG1229314
(S) Dibromofluoromethane	*100*			*75.0-120*		*01/28/2019 18:57*	WG1229419
(S) a,a,a-Trifluorotoluene	*105*			*80.0-120*		*01/28/2019 17:55*	WG1229314
(S) a,a,a-Trifluorotoluene	*108*			*80.0-120*		*01/28/2019 18:57*	WG1229419
(S) 4-Bromofluorobenzene	*86.4*			*77.0-126*		*01/28/2019 17:55*	WG1229314
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*01/28/2019 18:57*	WG1229419

JC 3/5/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.0		1	01/28/2019 15:36	WG1229369

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0417 J	B J0	0.0154	0.0281	1	01/30/2019 14:17	WG1230028
Acrylonitrile	U		0.00213	0.0140	1	01/29/2019 16:38	WG1229639
Benzene	U		0.000449	0.00112	1	01/29/2019 16:38	WG1229639
Bromobenzene	U		0.00118	0.0140	1	01/29/2019 16:38	WG1229639
Bromodichloromethane	U		0.000885	0.00281	1	01/29/2019 16:38	WG1229639
Bromochloromethane	U		0.00127	0.00562	1	01/29/2019 16:38	WG1229639
Bromoform	U		0.00672	0.0281	1	01/29/2019 16:38	WG1229639
Bromomethane	U		0.00416	0.0140	1	01/29/2019 16:38	WG1229639
n-Butylbenzene	U		0.00431	0.0140	1	01/29/2019 16:38	WG1229639
sec-Butylbenzene	U		0.00284	0.0140	1	01/29/2019 16:38	WG1229639
tert-Butylbenzene	U		0.00174	0.00562	1	01/29/2019 16:38	WG1229639
Carbon disulfide	U		0.00456	0.0140	1	01/29/2019 16:38	WG1229639
Carbon tetrachloride	U		0.00121	0.00562	1	01/29/2019 16:38	WG1229639
Chlorobenzene	U		0.000644	0.00281	1	01/29/2019 16:38	WG1229639
Chlorodibromomethane	U		0.000506	0.00281	1	01/29/2019 16:38	WG1229639
Chloroethane	U		0.00121	0.00562	1	01/29/2019 16:38	WG1229639
Chloroform	U		0.000466	0.00281	1	01/29/2019 16:38	WG1229639
Chloromethane	U		0.00156	0.0140	1	01/29/2019 16:38	WG1229639
2-Chlorotoluene	U		0.00103	0.00281	1	01/29/2019 16:38	WG1229639
4-Chlorotoluene	U		0.00127	0.00562	1	01/29/2019 16:38	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	01/29/2019 16:38	WG1229639
1,2-Dibromoethane	U		0.000590	0.00281	1	01/29/2019 16:38	WG1229639
Dibromomethane	U		0.00112	0.00562	1	01/29/2019 16:38	WG1229639
1,2-Dichlorobenzene	U		0.00163	0.00562	1	01/29/2019 16:38	WG1229639
1,3-Dichlorobenzene	U		0.00191	0.00562	1	01/29/2019 16:38	WG1229639
1,4-Dichlorobenzene	U		0.00221	0.00562	1	01/29/2019 16:38	WG1229639
Dichlorodifluoromethane	U		0.000919	0.00281	1	01/29/2019 16:38	WG1229639
1,1-Dichloroethane	U		0.000646	0.00281	1	01/29/2019 16:38	WG1229639
1,2-Dichloroethane	U		0.000534	0.00281	1	01/29/2019 16:38	WG1229639
1,1-Dichloroethene	U		0.000562	0.00281	1	01/29/2019 16:38	WG1229639
cis-1,2-Dichloroethene	0.00519		0.000775	0.00281	1	01/29/2019 16:38	WG1229639
trans-1,2-Dichloroethene	U		0.00161	0.00562	1	01/29/2019 16:38	WG1229639
1,2-Dichloropropane	U		0.00143	0.00562	1	01/30/2019 14:17	WG1230028
1,1-Dichloropropene	U		0.000786	0.00281	1	01/29/2019 16:38	WG1229639
1,3-Dichloropropane	U		0.00197	0.00562	1	01/29/2019 16:38	WG1229639
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	01/29/2019 16:38	WG1229639
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	01/29/2019 16:38	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	01/29/2019 16:38	WG1229639
2,2-Dichloropropane	U		0.000891	0.00281	1	01/29/2019 16:38	WG1229639
Di-isopropyl ether	U		0.000393	0.00112	1	01/29/2019 16:38	WG1229639
Ethylbenzene	U		0.000595	0.00281	1	01/29/2019 16:38	WG1229639
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	01/29/2019 16:38	WG1229639
2-Hexanone	U		0.0112	0.0281	1	01/29/2019 16:38	WG1229639
n-Hexane	U		0.00119	0.00562	1	01/29/2019 16:38	WG1229639
Iodomethane	U		0.00680	0.0140	1	01/29/2019 16:38	WG1229639
Isopropylbenzene	U		0.000970	0.00281	1	01/29/2019 16:38	WG1229639
p-Isopropyltoluene	U		0.00262	0.00562	1	01/29/2019 16:38	WG1229639
2-Butanone (MEK)	0.0290		0.0140	0.0281	1	01/30/2019 14:17	WG1230028
Methylene Chloride	U		0.00746	0.0281	1	01/29/2019 16:38	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	01/29/2019 16:38	WG1229639

JC 3/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	01/29/2019 16:38	WG1229639
Naphthalene	U		0.00351	0.0140	1	01/29/2019 16:38	WG1229639
n-Propylbenzene	U		0.00133	0.00562	1	01/29/2019 16:38	WG1229639
Styrene	U		0.00307	0.0140	1	01/29/2019 16:38	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	01/29/2019 16:38	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	01/29/2019 16:38	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	01/29/2019 16:38	WG1229639
Tetrachloroethene	0.00468		0.000786	0.00281	1	01/29/2019 16:38	WG1229639
Toluene	0.00186 J	J	0.00140	0.00562	1	01/29/2019 16:38	WG1229639
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	01/29/2019 16:38	WG1229639
1,2,4-Trichlorobenzene	U		0.00542	0.0140	1	01/29/2019 16:38	WG1229639
1,1,1-Trichloroethane	U		0.000309	0.00281	1	01/29/2019 16:38	WG1229639
1,1,2-Trichloroethane	U		0.000992	0.00281	1	01/29/2019 16:38	WG1229639
Trichloroethene	U		0.000449	0.00112	1	01/29/2019 16:38	WG1229639
Trichlorofluoromethane	U		0.000562	0.00281	1	01/29/2019 16:38	WG1229639
1,2,3-Trichloropropane	U		0.00573	0.0140	1	01/29/2019 16:38	WG1229639
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	01/29/2019 16:38	WG1229639
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	01/29/2019 16:38	WG1229639
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	01/29/2019 16:38	WG1229639
Vinyl acetate	U		0.00395	0.0140	1	01/29/2019 16:38	WG1229639
Vinyl chloride	0.00368		0.000767	0.00281	1	01/29/2019 16:38	WG1229639
Xylenes, Total	U		0.00537	0.00730	1	01/29/2019 16:38	WG1229639
(S) Toluene-d8	*112*			*75.0-131*		*01/29/2019 16:38*	WG1229639
(S) Toluene-d8	*95.8*			*75.0-131*		*01/30/2019 14:17*	WG1230028
(S) Dibromofluoromethane	*80.4*			*65.0-129*		*01/29/2019 16:38*	WG1229639
(S) Dibromofluoromethane	*114*			*65.0-129*		*01/30/2019 14:17*	WG1230028
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*01/29/2019 16:38*	WG1229639
(S) 4-Bromofluorobenzene	*118*			*67.0-138*		*01/30/2019 14:17*	WG1230028

JC 3/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.4		1	02/01/2019 13:27	WG1231191

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.296	0.541	20	02/04/2019 15:17	WG1232204
Acrylonitrile	U		0.0411	0.270	20	02/03/2019 12:15	WG1231932
Benzene	U		0.00865	0.0216	20	02/03/2019 12:15	WG1231932
Bromobenzene	U		0.0227	0.270	20	02/03/2019 12:15	WG1231932
Bromodichloromethane	U		0.0171	0.0541	20	02/03/2019 12:15	WG1231932
Bromochloromethane	U		0.0245	0.108	20	02/03/2019 12:15	WG1231932
Bromoform	U		0.130	0.541	20	02/03/2019 12:15	WG1231932
Bromomethane	U		0.0801	0.270	20	02/03/2019 12:15	WG1231932
n-Butylbenzene	U		0.0831	0.270	20	02/03/2019 12:15	WG1231932
sec-Butylbenzene	U		0.0547	0.270	20	02/03/2019 12:15	WG1231932
tert-Butylbenzene	U		0.0335	0.108	20	02/03/2019 12:15	WG1231932
Carbon disulfide	U		0.0878	0.270	20	02/03/2019 12:15	WG1231932
Carbon tetrachloride	U		0.0234	0.108	20	02/03/2019 12:15	WG1231932
Chlorobenzene	U		0.0124	0.0541	20	02/03/2019 12:15	WG1231932
Chlorodibromomethane	U		0.00974	0.0541	20	02/03/2019 12:15	WG1231932
Chloroethane	U		0.0234	0.108	20	02/03/2019 12:15	WG1231932
Chloroform	U		0.00898	0.0541	20	02/03/2019 12:15	WG1231932
Chloromethane	U		0.0301	0.270	20	02/03/2019 12:15	WG1231932
2-Chlorotoluene	U		0.0199	0.0541	20	02/03/2019 12:15	WG1231932
4-Chlorotoluene	U		0.0245	0.108	20	02/03/2019 12:15	WG1231932
1,2-Dibromo-3-Chloropropane	U		0.110	0.541	20	02/03/2019 12:15	WG1231932
1,2-Dibromoethane	U		0.0114	0.0541	20	02/03/2019 12:15	WG1231932
Dibromomethane	U		0.0216	0.108	20	02/03/2019 12:15	WG1231932
1,2-Dichlorobenzene	U		0.0314	0.108	20	02/03/2019 12:15	WG1231932
1,3-Dichlorobenzene	U		0.0368	0.108	20	02/03/2019 12:15	WG1231932
1,4-Dichlorobenzene	U		0.0426	0.108	20	02/03/2019 12:15	WG1231932
Dichlorodifluoromethane	U		0.0177	0.0541	20	02/03/2019 12:15	WG1231932
1,1-Dichloroethane	U		0.0124	0.0541	20	02/03/2019 12:15	WG1231932
1,2-Dichloroethane	U		0.0103	0.0541	20	02/03/2019 12:15	WG1231932
1,1-Dichloroethene	U		0.0108	0.0541	20	02/03/2019 12:15	WG1231932
cis-1,2-Dichloroethene	1.57		0.0149	0.0541	20	02/03/2019 12:15	WG1231932
trans-1,2-Dichloroethene	U		0.0309	0.108	20	02/03/2019 12:15	WG1231932
1,2-Dichloropropane	U	~~J4~~	0.0275	0.108	20	02/04/2019 15:17	WG1232204
1,1-Dichloropropene	U		0.0151	0.0541	20	02/03/2019 12:15	WG1231932
1,3-Dichloropropane	U		0.0379	0.108	20	02/03/2019 12:15	WG1231932
cis-1,3-Dichloropropene	U		0.0147	0.0541	20	02/03/2019 12:15	WG1231932
trans-1,3-Dichloropropene	U		0.0331	0.108	20	02/03/2019 12:15	WG1231932
trans-1,4-Dichloro-2-butene	U		0.0303	0.108	20	02/03/2019 12:15	WG1231932
2,2-Dichloropropane	U		0.0172	0.0541	20	02/03/2019 12:15	WG1231932
Di-isopropyl ether	U		0.00757	0.0216	20	02/03/2019 12:15	WG1231932
Ethylbenzene	U		0.0115	0.0541	20	02/03/2019 12:15	WG1231932
Hexachloro-1,3-butadiene	U		0.275	0.541	20	02/03/2019 12:15	WG1231932
2-Hexanone	U		0.216	0.541	20	02/03/2019 12:15	WG1231932
n-Hexane	U		0.0229	0.108	20	02/03/2019 12:15	WG1231932
Iodomethane	U		0.131	0.270	20	02/03/2019 12:15	WG1231932
Isopropylbenzene	U		0.0187	0.0541	20	02/03/2019 12:15	WG1231932
p-Isopropyltoluene	U		0.0504	0.108	20	02/03/2019 12:15	WG1231932
2-Butanone (MEK)	U		0.270	0.541	20	02/04/2019 15:17	WG1232204
Methylene Chloride	U		0.144	0.541	20	02/03/2019 12:15	WG1231932
4-Methyl-2-pentanone (MIBK)	U		0.216	0.541	20	02/03/2019 12:15	WG1231932

JC 3/18/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00638	0.0216	20	02/03/2019 12:15	WG1231932
Naphthalene	U		0.0675	0.270	20	02/03/2019 12:15	WG1231932
n-Propylbenzene	U		0.0255	0.108	20	02/03/2019 12:15	WG1231932
Styrene	U		0.0591	0.270	20	02/03/2019 12:15	WG1231932
1,1,1,2-Tetrachloroethane	U		0.0108	0.0541	20	02/03/2019 12:15	WG1231932
1,1,2,2-Tetrachloroethane	U		0.00844	0.0541	20	02/03/2019 12:15	WG1231932
1,1,2-Trichlorotrifluoroethane	U		0.0146	0.0541	20	02/03/2019 12:15	WG1231932
Tetrachloroethene	34.1		0.0151	0.0541	20	02/03/2019 12:15	WG1231932
Toluene	U		0.0270	0.108	20	02/03/2019 12:15	WG1231932
1,2,3-Trichlorobenzene	U		0.0135	0.0541	20	02/03/2019 12:15	WG1231932
1,2,4-Trichlorobenzene	U		0.104	0.270	20	02/03/2019 12:15	WG1231932
1,1,1-Trichloroethane	U		0.00595	0.0541	20	02/03/2019 12:15	WG1231932
1,1,2-Trichloroethane	U		0.0191	0.0541	20	02/03/2019 12:15	WG1231932
Trichloroethene	4.66		0.00865	0.0216	20	02/03/2019 12:15	WG1231932
Trichlorofluoromethane	U		0.0108	0.0541	20	02/03/2019 12:15	WG1231932
1,2,3-Trichloropropane	U		0.110	0.270	20	02/03/2019 12:15	WG1231932
1,2,4-Trimethylbenzene	U		0.0251	0.108	20	02/03/2019 12:15	WG1231932
1,2,3-Trimethylbenzene	U		0.0249	0.108	20	02/03/2019 12:15	WG1231932
1,3,5-Trimethylbenzene	U		0.0234	0.108	20	02/03/2019 12:15	WG1231932
Vinyl acetate	U		0.0762	0.270	20	02/03/2019 12:15	WG1231932
Vinyl chloride	U		0.0148	0.0541	20	02/03/2019 12:15	WG1231932
Xylenes, Total	U		0.103	0.141	20	02/03/2019 12:15	WG1231932
(S) Toluene-d8	*103*			*75.0-131*		*02/03/2019 12:15*	WG1231932
(S) Toluene-d8	*75.4*			*75.0-131*		*02/04/2019 15:17*	WG1232204
(S) Dibromofluoromethane	*92.6*			*65.0-129*		*02/03/2019 12:15*	WG1231932
(S) Dibromofluoromethane	*133*	J1		*65.0-129*		*02/04/2019 15:17*	WG1232204
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*02/03/2019 12:15*	WG1231932
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*02/04/2019 15:17*	WG1232204

JC 3/18/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.6		1	02/01/2019 13:27	WG1231191

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.320	0.584	20	02/03/2019 16:35	WG1231857
Acrylonitrile	U		0.00222	0.0146	1	02/02/2019 14:08	WG1231708
Benzene	U		0.000467	0.00117	1	02/02/2019 14:08	WG1231708
Bromobenzene	U		0.00123	0.0146	1	02/02/2019 14:08	WG1231708
Bromodichloromethane	U		0.000921	0.00292	1	02/02/2019 14:08	WG1231708
Bromochloromethane	U		0.00132	0.00584	1	02/02/2019 14:08	WG1231708
Bromoform	U		0.00699	0.0292	1	02/02/2019 14:08	WG1231708
Bromomethane	U		0.00432	0.0146	1	02/02/2019 14:08	WG1231708
n-Butylbenzene	U		0.00449	0.0146	1	02/02/2019 14:08	WG1231708
sec-Butylbenzene	U		0.00296	0.0146	1	02/02/2019 14:08	WG1231708
tert-Butylbenzene	U		0.00181	0.00584	1	02/02/2019 14:08	WG1231708
Carbon disulfide	U	UJ J0	0.00474	0.0146	1	02/02/2019 14:08	WG1231708
Carbon tetrachloride	U		0.00126	0.00584	1	02/02/2019 14:08	WG1231708
Chlorobenzene	U		0.000669	0.00292	1	02/02/2019 14:08	WG1231708
Chlorodibromomethane	U		0.000526	0.00292	1	02/02/2019 14:08	WG1231708
Chloroethane	U		0.00126	0.00584	1	02/02/2019 14:08	WG1231708
Chloroform	U		0.000485	0.00292	1	02/02/2019 14:08	WG1231708
Chloromethane	U		0.00162	0.0146	1	02/02/2019 14:08	WG1231708
2-Chlorotoluene	U		0.00107	0.00292	1	02/02/2019 14:08	WG1231708
4-Chlorotoluene	U		0.00132	0.00584	1	02/02/2019 14:08	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00596	0.0292	1	02/02/2019 14:08	WG1231708
1,2-Dibromoethane	U		0.000613	0.00292	1	02/02/2019 14:08	WG1231708
Dibromomethane	U		0.00117	0.00584	1	02/02/2019 14:08	WG1231708
1,2-Dichlorobenzene	U		0.00169	0.00584	1	02/02/2019 14:08	WG1231708
1,3-Dichlorobenzene	U		0.00199	0.00584	1	02/02/2019 14:08	WG1231708
1,4-Dichlorobenzene	U		0.00230	0.00584	1	02/02/2019 14:08	WG1231708
Dichlorodifluoromethane	U		0.000956	0.00292	1	02/02/2019 14:08	WG1231708
1,1-Dichloroethane	U		0.000672	0.00292	1	02/02/2019 14:08	WG1231708
1,2-Dichloroethane	U		0.000555	0.00292	1	02/02/2019 14:08	WG1231708
1,1-Dichloroethene	0.00746		0.000584	0.00292	1	02/02/2019 14:08	WG1231708
cis-1,2-Dichloroethene	0.766		0.000806	0.00292	1	02/02/2019 14:08	WG1231708
trans-1,2-Dichloroethene	0.00213	J J	0.00167	0.00584	1	02/02/2019 14:08	WG1231708
1,2-Dichloropropane	U		0.0297	0.117	20	02/03/2019 16:35	WG1231857
1,1-Dichloropropene	U		0.000818	0.00292	1	02/02/2019 14:08	WG1231708
1,3-Dichloropropane	U		0.00204	0.00584	1	02/02/2019 14:08	WG1231708
cis-1,3-Dichloropropene	U		0.000792	0.00292	1	02/02/2019 14:08	WG1231708
trans-1,3-Dichloropropene	U		0.00179	0.00584	1	02/02/2019 14:08	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00164	0.00584	1	02/02/2019 14:08	WG1231708
2,2-Dichloropropane	U		0.000926	0.00292	1	02/02/2019 14:08	WG1231708
Di-isopropyl ether	U		0.000409	0.00117	1	02/02/2019 14:08	WG1231708
Ethylbenzene	U		0.000619	0.00292	1	02/02/2019 14:08	WG1231708
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	02/02/2019 14:08	WG1231708
2-Hexanone	U		0.0117	0.0292	1	02/02/2019 14:08	WG1231708
n-Hexane	U		0.00124	0.00584	1	02/02/2019 14:08	WG1231708
Iodomethane	U		0.00707	0.0146	1	02/02/2019 14:08	WG1231708
Isopropylbenzene	U		0.00101	0.00292	1	02/02/2019 14:08	WG1231708
p-Isopropyltoluene	U		0.00272	0.00584	1	02/02/2019 14:08	WG1231708
2-Butanone (MEK)	U		0.292	0.584	20	02/03/2019 16:35	WG1231857
Methylene Chloride	U		0.00776	0.0292	1	02/02/2019 14:08	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	02/02/2019 14:08	WG1231708

JC 3/18/19

MW-162-50

Collected date/time: 01/28/19 11:40

SAMPLE RESULTS - 02

L1065738

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	02/02/2019 14:08	WG1231708
Naphthalene	U		0.00364	0.0146	1	02/02/2019 14:08	WG1231708
n-Propylbenzene	U		0.00138	0.00584	1	02/02/2019 14:08	WG1231708
Styrene	U		0.00319	0.0146	1	02/02/2019 14:08	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000584	0.00292	1	02/02/2019 14:08	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	02/02/2019 14:08	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000789	0.00292	1	02/02/2019 14:08	WG1231708
Tetrachloroethene	5.26 J		0.0164	0.0584	20	02/03/2019 16:35	WG1231857
Toluene	U		0.00146	0.00584	1	02/02/2019 14:08	WG1231708
1,2,3-Trichlorobenzene	U		0.000730	0.00292	1	02/02/2019 14:08	WG1231708
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1	02/02/2019 14:08	WG1231708
1,1,1-Trichloroethane	U		0.000321	0.00292	1	02/02/2019 14:08	WG1231708
1,1,2-Trichloroethane	U		0.00103	0.00292	1	02/02/2019 14:08	WG1231708
Trichloroethene	1.11		0.000467	0.00117	1	02/02/2019 14:08	WG1231708
Trichlorofluoromethane	U		0.000584	0.00292	1	02/02/2019 14:08	WG1231708
1,2,3-Trichloropropane	U		0.00596	0.0146	1	02/02/2019 14:08	WG1231708
1,2,4-Trimethylbenzene	U		0.00136	0.00584	1	02/02/2019 14:08	WG1231708
1,2,3-Trimethylbenzene	U		0.00134	0.00584	1	02/02/2019 14:08	WG1231708
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1	02/02/2019 14:08	WG1231708
Vinyl acetate	U		0.00411	0.0146	1	02/02/2019 14:08	WG1231708
Vinyl chloride	0.00368		0.000798	0.00292	1	02/02/2019 14:08	WG1231708
Xylenes, Total	U		0.00558	0.00759	1	02/02/2019 14:08	WG1231708
(S) Toluene-d8	*116*			*75.0-131*		*02/02/2019 14:08*	WG1231708
(S) Toluene-d8	*92.7*			*75.0-131*		*02/03/2019 16:35*	WG1231857
(S) Dibromofluoromethane	*74.8*			*65.0-129*		*02/02/2019 14:08*	WG1231708
(S) Dibromofluoromethane	*134*	J1		*65.0-129*		*02/03/2019 16:35*	WG1231857
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*02/02/2019 14:08*	WG1231708
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*02/03/2019 16:35*	WG1231857

Sample Narrative:

L1065738-02 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-02 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.9		1	02/01/2019 13:27	WG1231191

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.609	1.11	40	02/03/2019 16:54	WG1231857
Acrylonitrile	U		0.00211	0.0139	1	02/02/2019 14:29	WG1231708
Benzene	0.000494	J J	0.000445	0.00111	1	02/02/2019 14:29	WG1231708
Bromobenzene	U		0.00117	0.0139	1	02/02/2019 14:29	WG1231708
Bromodichloromethane	U		0.000876	0.00278	1	02/02/2019 14:29	WG1231708
Bromochloromethane	U		0.00126	0.00556	1	02/02/2019 14:29	WG1231708
Bromoform	U		0.00665	0.0278	1	02/02/2019 14:29	WG1231708
Bromomethane	U		0.00411	0.0139	1	02/02/2019 14:29	WG1231708
n-Butylbenzene	U		0.00427	0.0139	1	02/02/2019 14:29	WG1231708
sec-Butylbenzene	U		0.00281	0.0139	1	02/02/2019 14:29	WG1231708
tert-Butylbenzene	U		0.00172	0.00556	1	02/02/2019 14:29	WG1231708
Carbon disulfide	U	UJ J0	0.00451	0.0139	1	02/02/2019 14:29	WG1231708
Carbon tetrachloride	U		0.00120	0.00556	1	02/02/2019 14:29	WG1231708
Chlorobenzene	U		0.000637	0.00278	1	02/02/2019 14:29	WG1231708
Chlorodibromomethane	U		0.000500	0.00278	1	02/02/2019 14:29	WG1231708
Chloroethane	U		0.00120	0.00556	1	02/02/2019 14:29	WG1231708
Chloroform	U		0.000461	0.00278	1	02/02/2019 14:29	WG1231708
Chloromethane	U		0.00155	0.0139	1	02/02/2019 14:29	WG1231708
2-Chlorotoluene	U		0.00102	0.00278	1	02/02/2019 14:29	WG1231708
4-Chlorotoluene	U		0.00126	0.00556	1	02/02/2019 14:29	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00567	0.0278	1	02/02/2019 14:29	WG1231708
1,2-Dibromoethane	U		0.000584	0.00278	1	02/02/2019 14:29	WG1231708
Dibromomethane	U		0.00111	0.00556	1	02/02/2019 14:29	WG1231708
1,2-Dichlorobenzene	U		0.00161	0.00556	1	02/02/2019 14:29	WG1231708
1,3-Dichlorobenzene	U		0.00189	0.00556	1	02/02/2019 14:29	WG1231708
1,4-Dichlorobenzene	U		0.00219	0.00556	1	02/02/2019 14:29	WG1231708
Dichlorodifluoromethane	U		0.000909	0.00278	1	02/02/2019 14:29	WG1231708
1,1-Dichloroethane	U		0.000639	0.00278	1	02/02/2019 14:29	WG1231708
1,2-Dichloroethane	U		0.000528	0.00278	1	02/02/2019 14:29	WG1231708
1,1-Dichloroethene	0.0332		0.000556	0.00278	1	02/02/2019 14:29	WG1231708
cis-1,2-Dichloroethene	7.57		0.0307	0.111	40	02/03/2019 16:54	WG1231857
trans-1,2-Dichloroethene	0.0107		0.00159	0.00556	1	02/02/2019 14:29	WG1231708
1,2-Dichloropropane	U		0.0565	0.222	40	02/03/2019 16:54	WG1231857
1,1-Dichloropropene	U		0.000778	0.00278	1	02/02/2019 14:29	WG1231708
1,3-Dichloropropane	U		0.00195	0.00556	1	02/02/2019 14:29	WG1231708
cis-1,3-Dichloropropene	U		0.000754	0.00278	1	02/02/2019 14:29	WG1231708
trans-1,3-Dichloropropene	U		0.00170	0.00556	1	02/02/2019 14:29	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00156	0.00556	1	02/02/2019 14:29	WG1231708
2,2-Dichloropropane	U		0.000882	0.00278	1	02/02/2019 14:29	WG1231708
Di-isopropyl ether	U		0.000389	0.00111	1	02/02/2019 14:29	WG1231708
Ethylbenzene	U		0.000589	0.00278	1	02/02/2019 14:29	WG1231708
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	02/02/2019 14:29	WG1231708
2-Hexanone	U		0.0111	0.0278	1	02/02/2019 14:29	WG1231708
n-Hexane	U		0.00118	0.00556	1	02/02/2019 14:29	WG1231708
Iodomethane	U		0.00673	0.0139	1	02/02/2019 14:29	WG1231708
Isopropylbenzene	U		0.000959	0.00278	1	02/02/2019 14:29	WG1231708
p-Isopropyltoluene	U		0.00259	0.00556	1	02/02/2019 14:29	WG1231708
2-Butanone (MEK)	U		0.556	1.11	40	02/03/2019 16:54	WG1231857
Methylene Chloride	U		0.00738	0.0278	1	02/02/2019 14:29	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	02/02/2019 14:29	WG1231708

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B-930-50
Collected date/time: 01/28/19 11:42

SAMPLE RESULTS - 03

L1065738

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000328	0.00111	1	02/02/2019 14:29	WG1231708
Naphthalene	U		0.00347	0.0139	1	02/02/2019 14:29	WG1231708
n-Propylbenzene	U		0.00131	0.00556	1	02/02/2019 14:29	WG1231708
Styrene	U		0.00304	0.0139	1	02/02/2019 14:29	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000556	0.00278	1	02/02/2019 14:29	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	02/02/2019 14:29	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000750	0.00278	1	02/02/2019 14:29	WG1231708
Tetrachloroethene	13.7		0.0311	0.111	40	02/03/2019 16:54	WG1231857
Toluene	0.00462 J	J	0.00139	0.00556	1	02/02/2019 14:29	WG1231708
1,2,3-Trichlorobenzene	U		0.000695	0.00278	1	02/02/2019 14:29	WG1231708
1,2,4-Trichlorobenzene	U		0.00536	0.0139	1	02/02/2019 14:29	WG1231708
1,1,1-Trichloroethane	U		0.000306	0.00278	1	02/02/2019 14:29	WG1231708
1,1,2-Trichloroethane	U		0.000982	0.00278	1	02/02/2019 14:29	WG1231708
Trichloroethene	5.91	~~J4~~	0.0178	0.0445	40	02/03/2019 16:54	WG1231857
Trichlorofluoromethane	U		0.000556	0.00278	1	02/02/2019 14:29	WG1231708
1,2,3-Trichloropropane	U		0.00567	0.0139	1	02/02/2019 14:29	WG1231708
1,2,4-Trimethylbenzene	0.00147 J	J	0.00129	0.00556	1	02/02/2019 14:29	WG1231708
1,2,3-Trimethylbenzene	0.00136 J	J	0.00128	0.00556	1	02/02/2019 14:29	WG1231708
1,3,5-Trimethylbenzene	U		0.00120	0.00556	1	02/02/2019 14:29	WG1231708
Vinyl acetate	U		0.00391	0.0139	1	02/02/2019 14:29	WG1231708
Vinyl chloride	0.0124		0.000759	0.00278	1	02/02/2019 14:29	WG1231708
Xylenes, Total	U		0.00531	0.00723	1	02/02/2019 14:29	WG1231708
(S) Toluene-d8	*102*			*75.0-131*		*02/02/2019 14:29*	WG1231708
(S) Toluene-d8	*92.7*			*75.0-131*		*02/03/2019 16:54*	WG1231857
(S) Dibromofluoromethane	*81.9*			*65.0-129*		*02/02/2019 14:29*	WG1231708
(S) Dibromofluoromethane	*128*			*65.0-129*		*02/03/2019 16:54*	WG1231857
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*02/02/2019 14:29*	WG1231708
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*02/03/2019 16:54*	WG1231857

Sample Narrative:

L1065738-03 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-03 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.1		1	02/01/2019 13:27	WG1231191

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.736		0.318	0.581	20	02/03/2019 17:13	WG1231857
Acrylonitrile	U		0.00221	0.0145	1	02/02/2019 14:49	WG1231708
Benzene	U		0.000465	0.00116	1	02/02/2019 14:49	WG1231708
Bromobenzene	U		0.00122	0.0145	1	02/02/2019 14:49	WG1231708
Bromodichloromethane	U		0.000915	0.00290	1	02/02/2019 14:49	WG1231708
Bromochloromethane	U		0.00131	0.00581	1	02/02/2019 14:49	WG1231708
Bromoform	U		0.00695	0.0290	1	02/02/2019 14:49	WG1231708
Bromomethane	U		0.00430	0.0145	1	02/02/2019 14:49	WG1231708
n-Butylbenzene	U		0.00446	0.0145	1	02/02/2019 14:49	WG1231708
sec-Butylbenzene	U		0.00294	0.0145	1	02/02/2019 14:49	WG1231708
tert-Butylbenzene	U		0.00180	0.00581	1	02/02/2019 14:49	WG1231708
Carbon disulfide	U	UJ J0	0.00472	0.0145	1	02/02/2019 14:49	WG1231708
Carbon tetrachloride	U		0.00125	0.00581	1	02/02/2019 14:49	WG1231708
Chlorobenzene	U		0.000666	0.00290	1	02/02/2019 14:49	WG1231708
Chlorodibromomethane	U		0.000523	0.00290	1	02/02/2019 14:49	WG1231708
Chloroethane	U		0.00125	0.00581	1	02/02/2019 14:49	WG1231708
Chloroform	U		0.000482	0.00290	1	02/02/2019 14:49	WG1231708
Chloromethane	U		0.00161	0.0145	1	02/02/2019 14:49	WG1231708
2-Chlorotoluene	U		0.00107	0.00290	1	02/02/2019 14:49	WG1231708
4-Chlorotoluene	U		0.00131	0.00581	1	02/02/2019 14:49	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00592	0.0290	1	02/02/2019 14:49	WG1231708
1,2-Dibromoethane	U		0.000610	0.00290	1	02/02/2019 14:49	WG1231708
Dibromomethane	U		0.00116	0.00581	1	02/02/2019 14:49	WG1231708
1,2-Dichlorobenzene	U		0.00168	0.00581	1	02/02/2019 14:49	WG1231708
1,3-Dichlorobenzene	U		0.00197	0.00581	1	02/02/2019 14:49	WG1231708
1,4-Dichlorobenzene	U		0.00229	0.00581	1	02/02/2019 14:49	WG1231708
Dichlorodifluoromethane	U		0.000950	0.00290	1	02/02/2019 14:49	WG1231708
1,1-Dichloroethane	U		0.000668	0.00290	1	02/02/2019 14:49	WG1231708
1,2-Dichloroethane	U		0.000552	0.00290	1	02/02/2019 14:49	WG1231708
1,1-Dichloroethene	0.000967	J J	0.000581	0.00290	1	02/02/2019 14:49	WG1231708
cis-1,2-Dichloroethene	0.253		0.000801	0.00290	1	02/02/2019 14:49	WG1231708
trans-1,2-Dichloroethene	U		0.00166	0.00581	1	02/02/2019 14:49	WG1231708
1,2-Dichloropropane	U		0.0295	0.116	20	02/03/2019 17:13	WG1231857
1,1-Dichloropropene	U		0.000813	0.00290	1	02/02/2019 14:49	WG1231708
1,3-Dichloropropane	U		0.00203	0.00581	1	02/02/2019 14:49	WG1231708
cis-1,3-Dichloropropene	U		0.000787	0.00290	1	02/02/2019 14:49	WG1231708
trans-1,3-Dichloropropene	U		0.00178	0.00581	1	02/02/2019 14:49	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00163	0.00581	1	02/02/2019 14:49	WG1231708
2,2-Dichloropropane	U		0.000921	0.00290	1	02/02/2019 14:49	WG1231708
Di-isopropyl ether	U		0.000407	0.00116	1	02/02/2019 14:49	WG1231708
Ethylbenzene	U		0.000616	0.00290	1	02/02/2019 14:49	WG1231708
Hexachloro-1,3-butadiene	U		0.0148	0.0290	1	02/02/2019 14:49	WG1231708
2-Hexanone	U		0.0116	0.0290	1	02/02/2019 14:49	WG1231708
n-Hexane	U		0.00123	0.00581	1	02/02/2019 14:49	WG1231708
Iodomethane	U		0.00703	0.0145	1	02/02/2019 14:49	WG1231708
Isopropylbenzene	U		0.00100	0.00290	1	02/02/2019 14:49	WG1231708
p-Isopropyltoluene	U		0.00271	0.00581	1	02/02/2019 14:49	WG1231708
2-Butanone (MEK)	U		0.290	0.581	20	02/03/2019 17:13	WG1231857
Methylene Chloride	U		0.00771	0.0290	1	02/02/2019 14:49	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	02/02/2019 14:49	WG1231708

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000343	0.00116	1	02/02/2019 14:49	WG1231708
Naphthalene	U		0.00362	0.0145	1	02/02/2019 14:49	WG1231708
n-Propylbenzene	U		0.00137	0.00581	1	02/02/2019 14:49	WG1231708
Styrene	U		0.00317	0.0145	1	02/02/2019 14:49	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000581	0.00290	1	02/02/2019 14:49	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000453	0.00290	1	02/02/2019 14:49	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000784	0.00290	1	02/02/2019 14:49	WG1231708
Tetrachloroethene	9.41		0.0163	0.0581	20	02/03/2019 17:13	WG1231857
Toluene	U		0.00145	0.00581	1	02/02/2019 14:49	WG1231708
1,2,3-Trichlorobenzene	U		0.000726	0.00290	1	02/02/2019 14:49	WG1231708
1,2,4-Trichlorobenzene	U		0.00560	0.0145	1	02/02/2019 14:49	WG1231708
1,1,1-Trichloroethane	U		0.000319	0.00290	1	02/02/2019 14:49	WG1231708
1,1,2-Trichloroethane	U		0.00103	0.00290	1	02/02/2019 14:49	WG1231708
Trichloroethene	0.900		0.000465	0.00116	1	02/02/2019 14:49	WG1231708
Trichlorofluoromethane	U		0.000581	0.00290	1	02/02/2019 14:49	WG1231708
1,2,3-Trichloropropane	U		0.00592	0.0145	1	02/02/2019 14:49	WG1231708
1,2,4-Trimethylbenzene	0.00251 J	J	0.00135	0.00581	1	02/02/2019 14:49	WG1231708
1,2,3-Trimethylbenzene	U		0.00134	0.00581	1	02/02/2019 14:49	WG1231708
1,3,5-Trimethylbenzene	U		0.00125	0.00581	1	02/02/2019 14:49	WG1231708
Vinyl acetate	U		0.00409	0.0145	1	02/02/2019 14:49	WG1231708
Vinyl chloride	U		0.000793	0.00290	1	02/02/2019 14:49	WG1231708
Xylenes, Total	U		0.00555	0.00755	1	02/02/2019 14:49	WG1231708
(S) Toluene-d8	*106*			*75.0-131*		*02/02/2019 14:49*	WG1231708
(S) Toluene-d8	*93.5*			*75.0-131*		*02/03/2019 17:13*	WG1231857
(S) Dibromofluoromethane	*86.1*			*65.0-129*		*02/02/2019 14:49*	WG1231708
(S) Dibromofluoromethane	*128*			*65.0-129*		*02/03/2019 17:13*	WG1231857
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*02/02/2019 14:49*	WG1231708
(S) 4-Bromofluorobenzene	*114*			*67.0-138*		*02/03/2019 17:13*	WG1231857

Sample Narrative:

L1065738-04 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-04 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.6		1	02/01/2019 13:27	WG1231191

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	1.72	J		0.612	1.12	40	02/03/2019 17:32	WG1231857
Acrylonitrile	U			0.00212	0.0140	1	02/02/2019 15:09	WG1231708
Benzene	0.000937	J	J	0.000447	0.00112	1	02/02/2019 15:09	WG1231708
Bromobenzene	U			0.00117	0.0140	1	02/02/2019 15:09	WG1231708
Bromodichloromethane	U			0.000880	0.00279	1	02/02/2019 15:09	WG1231708
Bromochloromethane	U			0.00126	0.00558	1	02/02/2019 15:09	WG1231708
Bromoform	U			0.00668	0.0279	1	02/02/2019 15:09	WG1231708
Bromomethane	U			0.00413	0.0140	1	02/02/2019 15:09	WG1231708
n-Butylbenzene	U			0.00429	0.0140	1	02/02/2019 15:09	WG1231708
sec-Butylbenzene	U			0.00282	0.0140	1	02/02/2019 15:09	WG1231708
tert-Butylbenzene	U			0.00173	0.00558	1	02/02/2019 15:09	WG1231708
Carbon disulfide	U	UJ	J0	0.00453	0.0140	1	02/02/2019 15:09	WG1231708
Carbon tetrachloride	U			0.00121	0.00558	1	02/02/2019 15:09	WG1231708
Chlorobenzene	U			0.000640	0.00279	1	02/02/2019 15:09	WG1231708
Chlorodibromomethane	U			0.000502	0.00279	1	02/02/2019 15:09	WG1231708
Chloroethane	U			0.00121	0.00558	1	02/02/2019 15:09	WG1231708
Chloroform	U			0.000463	0.00279	1	02/02/2019 15:09	WG1231708
Chloromethane	U			0.00155	0.0140	1	02/02/2019 15:09	WG1231708
2-Chlorotoluene	U			0.00103	0.00279	1	02/02/2019 15:09	WG1231708
4-Chlorotoluene	U			0.00126	0.00558	1	02/02/2019 15:09	WG1231708
1,2-Dibromo-3-Chloropropane	U			0.00569	0.0279	1	02/02/2019 15:09	WG1231708
1,2-Dibromoethane	U			0.000586	0.00279	1	02/02/2019 15:09	WG1231708
Dibromomethane	U			0.00112	0.00558	1	02/02/2019 15:09	WG1231708
1,2-Dichlorobenzene	U			0.00162	0.00558	1	02/02/2019 15:09	WG1231708
1,3-Dichlorobenzene	U			0.00190	0.00558	1	02/02/2019 15:09	WG1231708
1,4-Dichlorobenzene	U			0.00220	0.00558	1	02/02/2019 15:09	WG1231708
Dichlorodifluoromethane	U			0.000913	0.00279	1	02/02/2019 15:09	WG1231708
1,1-Dichloroethane	0.00197	J	J	0.000642	0.00279	1	02/02/2019 15:09	WG1231708
1,2-Dichloroethane	U			0.000530	0.00279	1	02/02/2019 15:09	WG1231708
1,1-Dichloroethene	0.00885			0.000558	0.00279	1	02/02/2019 15:09	WG1231708
cis-1,2-Dichloroethene	1.44			0.000770	0.00279	1	02/02/2019 15:09	WG1231708
trans-1,2-Dichloroethene	0.00593			0.00160	0.00558	1	02/02/2019 15:09	WG1231708
1,2-Dichloropropane	U			0.0567	0.223	40	02/03/2019 17:32	WG1231857
1,1-Dichloropropene	U			0.000781	0.00279	1	02/02/2019 15:09	WG1231708
1,3-Dichloropropane	U			0.00195	0.00558	1	02/02/2019 15:09	WG1231708
cis-1,3-Dichloropropene	U			0.000757	0.00279	1	02/02/2019 15:09	WG1231708
trans-1,3-Dichloropropene	U			0.00171	0.00558	1	02/02/2019 15:09	WG1231708
trans-1,4-Dichloro-2-butene	U			0.00156	0.00558	1	02/02/2019 15:09	WG1231708
2,2-Dichloropropane	U			0.000885	0.00279	1	02/02/2019 15:09	WG1231708
Di-isopropyl ether	U			0.000391	0.00112	1	02/02/2019 15:09	WG1231708
Ethylbenzene	0.000641	J	J	0.000592	0.00279	1	02/02/2019 15:09	WG1231708
Hexachloro-1,3-butadiene	U			0.0142	0.0279	1	02/02/2019 15:09	WG1231708
2-Hexanone	U			0.0112	0.0279	1	02/02/2019 15:09	WG1231708
n-Hexane	U			0.00118	0.00558	1	02/02/2019 15:09	WG1231708
Iodomethane	U			0.00675	0.0140	1	02/02/2019 15:09	WG1231708
Isopropylbenzene	U			0.000963	0.00279	1	02/02/2019 15:09	WG1231708
p-Isopropyltoluene	U			0.00260	0.00558	1	02/02/2019 15:09	WG1231708
2-Butanone (MEK)	U			0.558	1.12	40	02/03/2019 17:32	WG1231857
Methylene Chloride	U			0.00741	0.0279	1	02/02/2019 15:09	WG1231708
4-Methyl-2-pentanone (MIBK)	U			0.0112	0.0279	1	02/02/2019 15:09	WG1231708

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00112	1	02/02/2019 15:09	WG1231708
Naphthalene	U		0.00348	0.0140	1	02/02/2019 15:09	WG1231708
n-Propylbenzene	U		0.00132	0.00558	1	02/02/2019 15:09	WG1231708
Styrene	U		0.00305	0.0140	1	02/02/2019 15:09	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000558	0.00279	1	02/02/2019 15:09	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	02/02/2019 15:09	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00279	1	02/02/2019 15:09	WG1231708
Tetrachloroethene	21.7 J		0.0313	0.112	40	02/03/2019 17:32	WG1231857
Toluene	0.00278 J	J	0.00140	0.00558	1	02/02/2019 15:09	WG1231708
1,2,3-Trichlorobenzene	U		0.000698	0.00279	1	02/02/2019 15:09	WG1231708
1,2,4-Trichlorobenzene	U		0.00538	0.0140	1	02/02/2019 15:09	WG1231708
1,1,1-Trichloroethane	U		0.000307	0.00279	1	02/02/2019 15:09	WG1231708
1,1,2-Trichloroethane	U		0.000986	0.00279	1	02/02/2019 15:09	WG1231708
Trichloroethene	1.67		0.000447	0.00112	1	02/02/2019 15:09	WG1231708
Trichlorofluoromethane	U		0.000558	0.00279	1	02/02/2019 15:09	WG1231708
1,2,3-Trichloropropane	U		0.00569	0.0140	1	02/02/2019 15:09	WG1231708
1,2,4-Trimethylbenzene	0.00452 J	J	0.00129	0.00558	1	02/02/2019 15:09	WG1231708
1,2,3-Trimethylbenzene	0.00273 J	J	0.00128	0.00558	1	02/02/2019 15:09	WG1231708
1,3,5-Trimethylbenzene	0.00177 J	J	0.00121	0.00558	1	02/02/2019 15:09	WG1231708
Vinyl acetate	U		0.00393	0.0140	1	02/02/2019 15:09	WG1231708
Vinyl chloride	0.0156		0.000762	0.00279	1	02/02/2019 15:09	WG1231708
Xylenes, Total	U		0.00534	0.00726	1	02/02/2019 15:09	WG1231708
(S) Toluene-d8	*98.0*			*75.0-131*		*02/02/2019 15:09*	WG1231708
(S) Toluene-d8	*92.9*			*75.0-131*		*02/03/2019 17:32*	WG1231857
(S) Dibromofluoromethane	*83.0*			*65.0-129*		*02/02/2019 15:09*	WG1231708
(S) Dibromofluoromethane	*132*	J1		*65.0-129*		*02/03/2019 17:32*	WG1231857
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*02/02/2019 15:09*	WG1231708
(S) 4-Bromofluorobenzene	*115*			*67.0-138*		*02/03/2019 17:32*	WG1231857

Sample Narrative:

L1065738-05 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-05 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.7		1	02/01/2019 13:27	WG1231191

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	1.75 J		0.591	1.08	40	02/03/2019 17:51	WG1231857
Acrylonitrile	U		0.00205	0.0135	1	02/02/2019 15:29	WG1231708
Benzene	U		0.000432	0.00108	1	02/02/2019 15:29	WG1231708
Bromobenzene	U		0.00113	0.0135	1	02/02/2019 15:29	WG1231708
Bromodichloromethane	U		0.000850	0.00270	1	02/02/2019 15:29	WG1231708
Bromochloromethane	U		0.00122	0.00539	1	02/02/2019 15:29	WG1231708
Bromoform	U		0.00645	0.0270	1	02/02/2019 15:29	WG1231708
Bromomethane	U		0.00399	0.0135	1	02/02/2019 15:29	WG1231708
n-Butylbenzene	U		0.00414	0.0135	1	02/02/2019 15:29	WG1231708
sec-Butylbenzene	U		0.00273	0.0135	1	02/02/2019 15:29	WG1231708
tert-Butylbenzene	U		0.00167	0.00539	1	02/02/2019 15:29	WG1231708
Carbon disulfide	U UJ	J0	0.00438	0.0135	1	02/02/2019 15:29	WG1231708
Carbon tetrachloride	U		0.00117	0.00539	1	02/02/2019 15:29	WG1231708
Chlorobenzene	U		0.000618	0.00270	1	02/02/2019 15:29	WG1231708
Chlorodibromomethane	U		0.000486	0.00270	1	02/02/2019 15:29	WG1231708
Chloroethane	U		0.00117	0.00539	1	02/02/2019 15:29	WG1231708
Chloroform	U		0.000448	0.00270	1	02/02/2019 15:29	WG1231708
Chloromethane	U		0.00150	0.0135	1	02/02/2019 15:29	WG1231708
2-Chlorotoluene	U		0.000993	0.00270	1	02/02/2019 15:29	WG1231708
4-Chlorotoluene	U		0.00122	0.00539	1	02/02/2019 15:29	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00550	0.0270	1	02/02/2019 15:29	WG1231708
1,2-Dibromoethane	U		0.000566	0.00270	1	02/02/2019 15:29	WG1231708
Dibromomethane	U		0.00108	0.00539	1	02/02/2019 15:29	WG1231708
1,2-Dichlorobenzene	U		0.00156	0.00539	1	02/02/2019 15:29	WG1231708
1,3-Dichlorobenzene	U		0.00183	0.00539	1	02/02/2019 15:29	WG1231708
1,4-Dichlorobenzene	U		0.00213	0.00539	1	02/02/2019 15:29	WG1231708
Dichlorodifluoromethane	U		0.000883	0.00270	1	02/02/2019 15:29	WG1231708
1,1-Dichloroethane	U		0.000620	0.00270	1	02/02/2019 15:29	WG1231708
1,2-Dichloroethane	U		0.000512	0.00270	1	02/02/2019 15:29	WG1231708
1,1-Dichloroethene	0.00311		0.000539	0.00270	1	02/02/2019 15:29	WG1231708
cis-1,2-Dichloroethene	0.358		0.000744	0.00270	1	02/02/2019 15:29	WG1231708
trans-1,2-Dichloroethene	U		0.00154	0.00539	1	02/02/2019 15:29	WG1231708
1,2-Dichloropropane	U		0.0548	0.216	40	02/03/2019 17:51	WG1231857
1,1-Dichloropropene	U		0.000755	0.00270	1	02/02/2019 15:29	WG1231708
1,3-Dichloropropane	U		0.00189	0.00539	1	02/02/2019 15:29	WG1231708
cis-1,3-Dichloropropene	U		0.000732	0.00270	1	02/02/2019 15:29	WG1231708
trans-1,3-Dichloropropene	U		0.00165	0.00539	1	02/02/2019 15:29	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00151	0.00539	1	02/02/2019 15:29	WG1231708
2,2-Dichloropropane	U		0.000856	0.00270	1	02/02/2019 15:29	WG1231708
Di-isopropyl ether	U		0.000378	0.00108	1	02/02/2019 15:29	WG1231708
Ethylbenzene	U		0.000572	0.00270	1	02/02/2019 15:29	WG1231708
Hexachloro-1,3-butadiene	U		0.0137	0.0270	1	02/02/2019 15:29	WG1231708
2-Hexanone	U		0.0108	0.0270	1	02/02/2019 15:29	WG1231708
n-Hexane	U		0.00114	0.00539	1	02/02/2019 15:29	WG1231708
Iodomethane	U		0.00653	0.0135	1	02/02/2019 15:29	WG1231708
Isopropylbenzene	U		0.000931	0.00270	1	02/02/2019 15:29	WG1231708
p-Isopropyltoluene	U		0.00251	0.00539	1	02/02/2019 15:29	WG1231708
2-Butanone (MEK)	U		0.539	1.08	40	02/03/2019 17:51	WG1231857
Methylene Chloride	U		0.00716	0.0270	1	02/02/2019 15:29	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0270	1	02/02/2019 15:29	WG1231708

JC 3/18/19

MW-162-72 SAMPLE RESULTS - 06

Collected date/time: 01/28/19 12:58

L1065738

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000318	0.00108	1	02/02/2019 15:29	WG1231708
Naphthalene	U		0.00337	0.0135	1	02/02/2019 15:29	WG1231708
n-Propylbenzene	U		0.00127	0.00539	1	02/02/2019 15:29	WG1231708
Styrene	U		0.00295	0.0135	1	02/02/2019 15:29	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000539	0.00270	1	02/02/2019 15:29	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000421	0.00270	1	02/02/2019 15:29	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000728	0.00270	1	02/02/2019 15:29	WG1231708
Tetrachloroethene	11.6 J		0.0302	0.108	40	02/03/2019 17:51	WG1231857
Toluene	U		0.00135	0.00539	1	02/02/2019 15:29	WG1231708
1,2,3-Trichlorobenzene	U		0.000674	0.00270	1	02/02/2019 15:29	WG1231708
1,2,4-Trichlorobenzene	U		0.00520	0.0135	1	02/02/2019 15:29	WG1231708
1,1,1-Trichloroethane	U		0.000297	0.00270	1	02/02/2019 15:29	WG1231708
1,1,2-Trichloroethane	U		0.000953	0.00270	1	02/02/2019 15:29	WG1231708
Trichloroethene	0.613		0.000432	0.00108	1	02/02/2019 15:29	WG1231708
Trichlorofluoromethane	U		0.000539	0.00270	1	02/02/2019 15:29	WG1231708
1,2,3-Trichloropropane	U		0.00550	0.0135	1	02/02/2019 15:29	WG1231708
1,2,4-Trimethylbenzene	U		0.00125	0.00539	1	02/02/2019 15:29	WG1231708
1,2,3-Trimethylbenzene	U		0.00124	0.00539	1	02/02/2019 15:29	WG1231708
1,3,5-Trimethylbenzene	U		0.00117	0.00539	1	02/02/2019 15:29	WG1231708
Vinyl acetate	U		0.00380	0.0135	1	02/02/2019 15:29	WG1231708
Vinyl chloride	0.00126 J	J	0.000737	0.00270	1	02/02/2019 15:29	WG1231708
Xylenes, Total	U		0.00516	0.00701	1	02/02/2019 15:29	WG1231708
(S) Toluene-d8	*101*			*75.0-131*		*02/02/2019 15:29*	WG1231708
(S) Toluene-d8	*93.5*			*75.0-131*		*02/03/2019 17:51*	WG1231857
(S) Dibromofluoromethane	*85.4*			*65.0-129*		*02/02/2019 15:29*	WG1231708
(S) Dibromofluoromethane	*133*	J1		*65.0-129*		*02/03/2019 17:51*	WG1231857
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*02/02/2019 15:29*	WG1231708
(S) 4-Bromofluorobenzene	*126*			*67.0-138*		*02/03/2019 17:51*	WG1231857

Sample Narrative:

L1065738-06 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-06 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

JC 3/18/19

MW-162-80
Collected date/time: 01/28/19 12:05

SAMPLE RESULTS - 07

L1065738

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.9		1	02/01/2019 13:27	WG1231191

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0329			0.0152	0.0278	1	02/03/2019 13:24	WG1231857
Acrylonitrile	U			0.00211	0.0139	1	02/02/2019 15:49	WG1231708
Benzene	0.000450	J	J	0.000445	0.00111	1	02/02/2019 15:49	WG1231708
Bromobenzene	U			0.00117	0.0139	1	02/02/2019 15:49	WG1231708
Bromodichloromethane	U			0.000877	0.00278	1	02/02/2019 15:49	WG1231708
Bromochloromethane	U			0.00126	0.00556	1	02/02/2019 15:49	WG1231708
Bromoform	U			0.00666	0.0278	1	02/02/2019 15:49	WG1231708
Bromomethane	U			0.00412	0.0139	1	02/02/2019 15:49	WG1231708
n-Butylbenzene	U			0.00427	0.0139	1	02/02/2019 15:49	WG1231708
sec-Butylbenzene	U			0.00282	0.0139	1	02/02/2019 15:49	WG1231708
tert-Butylbenzene	U			0.00173	0.00556	1	02/02/2019 15:49	WG1231708
Carbon disulfide	U	UJ	J0	0.00452	0.0139	1	02/02/2019 15:49	WG1231708
Carbon tetrachloride	U			0.00120	0.00556	1	02/02/2019 15:49	WG1231708
Chlorobenzene	U			0.000638	0.00278	1	02/02/2019 15:49	WG1231708
Chlorodibromomethane	U			0.000501	0.00278	1	02/02/2019 15:49	WG1231708
Chloroethane	U			0.00120	0.00556	1	02/02/2019 15:49	WG1231708
Chloroform	U			0.000462	0.00278	1	02/02/2019 15:49	WG1231708
Chloromethane	U			0.00155	0.0139	1	02/02/2019 15:49	WG1231708
2-Chlorotoluene	U			0.00102	0.00278	1	02/02/2019 15:49	WG1231708
4-Chlorotoluene	U			0.00126	0.00556	1	02/02/2019 15:49	WG1231708
1,2-Dibromo-3-Chloropropane	U			0.00568	0.0278	1	02/02/2019 15:49	WG1231708
1,2-Dibromoethane	U			0.000584	0.00278	1	02/02/2019 15:49	WG1231708
Dibromomethane	U			0.00111	0.00556	1	02/02/2019 15:49	WG1231708
1,2-Dichlorobenzene	U			0.00161	0.00556	1	02/02/2019 15:49	WG1231708
1,3-Dichlorobenzene	U			0.00189	0.00556	1	02/02/2019 15:49	WG1231708
1,4-Dichlorobenzene	U			0.00219	0.00556	1	02/02/2019 15:49	WG1231708
Dichlorodifluoromethane	U			0.000910	0.00278	1	02/02/2019 15:49	WG1231708
1,1-Dichloroethane	U			0.000640	0.00278	1	02/02/2019 15:49	WG1231708
1,2-Dichloroethane	U			0.000529	0.00278	1	02/02/2019 15:49	WG1231708
1,1-Dichloroethene	0.0199			0.000556	0.00278	1	02/02/2019 15:49	WG1231708
cis-1,2-Dichloroethene	2.23			0.000768	0.00278	1	02/02/2019 15:49	WG1231708
trans-1,2-Dichloroethene	0.00256	J	J	0.00159	0.00556	1	02/02/2019 15:49	WG1231708
1,2-Dichloropropane	U			0.00141	0.00556	1	02/03/2019 13:24	WG1231857
1,1-Dichloropropene	U			0.000779	0.00278	1	02/02/2019 15:49	WG1231708
1,3-Dichloropropane	U			0.00195	0.00556	1	02/02/2019 15:49	WG1231708
cis-1,3-Dichloropropene	U			0.000755	0.00278	1	02/02/2019 15:49	WG1231708
trans-1,3-Dichloropropene	U			0.00170	0.00556	1	02/02/2019 15:49	WG1231708
trans-1,4-Dichloro-2-butene	U			0.00156	0.00556	1	02/02/2019 15:49	WG1231708
2,2-Dichloropropane	U			0.000883	0.00278	1	02/02/2019 15:49	WG1231708
Di-isopropyl ether	U			0.000390	0.00111	1	02/02/2019 15:49	WG1231708
Ethylbenzene	U			0.000590	0.00278	1	02/02/2019 15:49	WG1231708
Hexachloro-1,3-butadiene	U			0.0141	0.0278	1	02/02/2019 15:49	WG1231708
2-Hexanone	U			0.0111	0.0278	1	02/02/2019 15:49	WG1231708
n-Hexane	U			0.00118	0.00556	1	02/02/2019 15:49	WG1231708
Iodomethane	U			0.00673	0.0139	1	02/02/2019 15:49	WG1231708
Isopropylbenzene	U			0.000960	0.00278	1	02/02/2019 15:49	WG1231708
p-Isopropyltoluene	U			0.00259	0.00556	1	02/02/2019 15:49	WG1231708
2-Butanone (MEK)	0.0241	J	J	0.0139	0.0278	1	02/03/2019 13:24	WG1231857
Methylene Chloride	U			0.00739	0.0278	1	02/02/2019 15:49	WG1231708
4-Methyl-2-pentanone (MIBK)	U			0.0111	0.0278	1	02/02/2019 15:49	WG1231708

JC 3/18/19

MW-162-80
Collected date/time: 01/28/19 12:05

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000328	0.00111	1	02/02/2019 15:49	WG1231708
Naphthalene	U		0.00347	0.0139	1	02/02/2019 15:49	WG1231708
n-Propylbenzene	U		0.00131	0.00556	1	02/02/2019 15:49	WG1231708
Styrene	U		0.00304	0.0139	1	02/02/2019 15:49	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000556	0.00278	1	02/02/2019 15:49	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	02/02/2019 15:49	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000751	0.00278	1	02/02/2019 15:49	WG1231708
Tetrachloroethene	0.150		0.000779	0.00278	1	02/03/2019 13:24	WG1231857
Toluene	U		0.00139	0.00556	1	02/02/2019 15:49	WG1231708
1,2,3-Trichlorobenzene	U		0.000696	0.00278	1	02/02/2019 15:49	WG1231708
1,2,4-Trichlorobenzene	U		0.00536	0.0139	1	02/02/2019 15:49	WG1231708
1,1,1-Trichloroethane	U		0.000306	0.00278	1	02/02/2019 15:49	WG1231708
1,1,2-Trichloroethane	U		0.000983	0.00278	1	02/02/2019 15:49	WG1231708
Trichloroethene	0.0699		0.000445	0.00111	1	02/02/2019 15:49	WG1231708
Trichlorofluoromethane	U		0.000556	0.00278	1	02/02/2019 15:49	WG1231708
1,2,3-Trichloropropane	U		0.00568	0.0139	1	02/02/2019 15:49	WG1231708
1,2,4-Trimethylbenzene	U		0.00129	0.00556	1	02/02/2019 15:49	WG1231708
1,2,3-Trimethylbenzene	U		0.00128	0.00556	1	02/02/2019 15:49	WG1231708
1,3,5-Trimethylbenzene	U		0.00120	0.00556	1	02/02/2019 15:49	WG1231708
Vinyl acetate	U		0.00392	0.0139	1	02/02/2019 15:49	WG1231708
Vinyl chloride	0.00787		0.000760	0.00278	1	02/02/2019 15:49	WG1231708
Xylenes, Total	U		0.00532	0.00723	1	02/02/2019 15:49	WG1231708
(S) Toluene-d8	*90.9*			*75.0-131*		*02/02/2019 15:49*	WG1231708
(S) Toluene-d8	*77.3*			*75.0-131*		*02/03/2019 13:24*	WG1231857
(S) Dibromofluoromethane	*84.6*			*65.0-129*		*02/02/2019 15:49*	WG1231708
(S) Dibromofluoromethane	*120*			*65.0-129*		*02/03/2019 13:24*	WG1231857
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*02/02/2019 15:49*	WG1231708
(S) 4-Bromofluorobenzene	*114*			*67.0-138*		*02/03/2019 13:24*	WG1231857

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 3/18/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.4		1	02/01/2019 13:11	WG1231192

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0240 J	J	0.0155	0.0283	1	02/03/2019 13:43	WG1231857
Acrylonitrile	U		0.00215	0.0141	1	02/02/2019 16:10	WG1231708
Benzene	0.000535 J	J	0.000453	0.00113	1	02/02/2019 16:10	WG1231708
Bromobenzene	U		0.00119	0.0141	1	02/02/2019 16:10	WG1231708
Bromodichloromethane	U		0.000892	0.00283	1	02/02/2019 16:10	WG1231708
Bromochloromethane	U		0.00128	0.00566	1	02/02/2019 16:10	WG1231708
Bromoform	U		0.00677	0.0283	1	02/02/2019 16:10	WG1231708
Bromomethane	U		0.00419	0.0141	1	02/02/2019 16:10	WG1231708
n-Butylbenzene	U		0.00435	0.0141	1	02/02/2019 16:10	WG1231708
sec-Butylbenzene	U		0.00286	0.0141	1	02/02/2019 16:10	WG1231708
tert-Butylbenzene	U		0.00175	0.00566	1	02/02/2019 16:10	WG1231708
Carbon disulfide	U UJ	J0	0.00460	0.0141	1	02/02/2019 16:10	WG1231708
Carbon tetrachloride	U		0.00122	0.00566	1	02/02/2019 16:10	WG1231708
Chlorobenzene	U		0.000649	0.00283	1	02/02/2019 16:10	WG1231708
Chlorodibromomethane	U		0.000509	0.00283	1	02/02/2019 16:10	WG1231708
Chloroethane	U		0.00122	0.00566	1	02/02/2019 16:10	WG1231708
Chloroform	U		0.000470	0.00283	1	02/02/2019 16:10	WG1231708
Chloromethane	U		0.00157	0.0141	1	02/02/2019 16:10	WG1231708
2-Chlorotoluene	U		0.00104	0.00283	1	02/02/2019 16:10	WG1231708
4-Chlorotoluene	U		0.00128	0.00566	1	02/02/2019 16:10	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00577	0.0283	1	02/02/2019 16:10	WG1231708
1,2-Dibromoethane	U		0.000594	0.00283	1	02/02/2019 16:10	WG1231708
Dibromomethane	U		0.00113	0.00566	1	02/02/2019 16:10	WG1231708
1,2-Dichlorobenzene	U		0.00164	0.00566	1	02/02/2019 16:10	WG1231708
1,3-Dichlorobenzene	U		0.00192	0.00566	1	02/02/2019 16:10	WG1231708
1,4-Dichlorobenzene	U		0.00223	0.00566	1	02/02/2019 16:10	WG1231708
Dichlorodifluoromethane	U		0.000926	0.00283	1	02/02/2019 16:10	WG1231708
1,1-Dichloroethane	U		0.000651	0.00283	1	02/02/2019 16:10	WG1231708
1,2-Dichloroethane	U		0.000538	0.00283	1	02/02/2019 16:10	WG1231708
1,1-Dichloroethene	U		0.000566	0.00283	1	02/02/2019 16:10	WG1231708
cis-1,2-Dichloroethene	0.0203		0.000781	0.00283	1	02/02/2019 16:10	WG1231708
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	02/02/2019 16:10	WG1231708
1,2-Dichloropropane	U		0.00144	0.00566	1	02/03/2019 13:43	WG1231857
1,1-Dichloropropene	U		0.000792	0.00283	1	02/02/2019 16:10	WG1231708
1,3-Dichloropropane	U		0.00198	0.00566	1	02/02/2019 16:10	WG1231708
cis-1,3-Dichloropropene	U		0.000767	0.00283	1	02/02/2019 16:10	WG1231708
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	02/02/2019 16:10	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00158	0.00566	1	02/02/2019 16:10	WG1231708
2,2-Dichloropropane	U		0.000898	0.00283	1	02/02/2019 16:10	WG1231708
Di-isopropyl ether	U		0.000396	0.00113	1	02/02/2019 16:10	WG1231708
Ethylbenzene	U		0.000600	0.00283	1	02/02/2019 16:10	WG1231708
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	02/02/2019 16:10	WG1231708
2-Hexanone	U		0.0113	0.0283	1	02/02/2019 16:10	WG1231708
n-Hexane	U		0.00120	0.00566	1	02/02/2019 16:10	WG1231708
Iodomethane	U		0.00685	0.0141	1	02/02/2019 16:10	WG1231708
Isopropylbenzene	U		0.000977	0.00283	1	02/02/2019 16:10	WG1231708
p-Isopropyltoluene	U		0.00264	0.00566	1	02/02/2019 16:10	WG1231708
2-Butanone (MEK)	0.0192 J	J	0.0141	0.0283	1	02/03/2019 13:43	WG1231857 JC 3/18/19
Methylene Chloride	U		0.00752	0.0283	1	02/02/2019 16:10	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	02/02/2019 16:10	WG1231708

MW-162-85

Collected date/time: 01/28/19 13:55

SAMPLE RESULTS - 08

L1065738

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	02/02/2019 16:10	WG1231708
Naphthalene	U		0.00353	0.0141	1	02/02/2019 16:10	WG1231708
n-Propylbenzene	U		0.00134	0.00566	1	02/02/2019 16:10	WG1231708
Styrene	U		0.00309	0.0141	1	02/02/2019 16:10	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	02/02/2019 16:10	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	02/02/2019 16:10	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	02/02/2019 16:10	WG1231708
Tetrachloroethene	0.00281 J	J	0.000792	0.00283	1	02/03/2019 13:43	WG1231857
Toluene	0.00163 J	J	0.00141	0.00566	1	02/02/2019 16:10	WG1231708
1,2,3-Trichlorobenzene	U		0.000707	0.00283	1	02/02/2019 16:10	WG1231708
1,2,4-Trichlorobenzene	U		0.00546	0.0141	1	02/02/2019 16:10	WG1231708
1,1,1-Trichloroethane	U		0.000311	0.00283	1	02/02/2019 16:10	WG1231708
1,1,2-Trichloroethane	U		0.000999	0.00283	1	02/02/2019 16:10	WG1231708
Trichloroethene	0.00139		0.000453	0.00113	1	02/02/2019 16:10	WG1231708
Trichlorofluoromethane	U		0.000566	0.00283	1	02/02/2019 16:10	WG1231708
1,2,3-Trichloropropane	U		0.00577	0.0141	1	02/02/2019 16:10	WG1231708
1,2,4-Trimethylbenzene	U		0.00131	0.00566	1	02/02/2019 16:10	WG1231708
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	02/02/2019 16:10	WG1231708
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	02/02/2019 16:10	WG1231708
Vinyl acetate	U		0.00398	0.0141	1	02/02/2019 16:10	WG1231708
Vinyl chloride	U		0.000773	0.00283	1	02/02/2019 16:10	WG1231708
Xylenes, Total	U		0.00541	0.00736	1	02/02/2019 16:10	WG1231708
(S) Toluene-d8	*108*			*75.0-131*		*02/02/2019 16:10*	WG1231708
(S) Toluene-d8	*96.1*			*75.0-131*		*02/03/2019 13:43*	WG1231857
(S) Dibromofluoromethane	*84.8*			*65.0-129*		*02/02/2019 16:10*	WG1231708
(S) Dibromofluoromethane	*113*			*65.0-129*		*02/03/2019 13:43*	WG1231857
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*02/02/2019 16:10*	WG1231708
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*02/03/2019 13:43*	WG1231857

JC 3/18/19

MW-162-90

Collected date/time: 01/28/19 14:00

SAMPLE RESULTS - 09

L1065738

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	02/01/2019 13:11	WG1231192

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0277 J	J	0.0155	0.0283	1	02/03/2019 14:03	WG1231857	
Acrylonitrile	U		0.00215	0.0141	1	02/02/2019 16:30	WG1231708	
Benzene	U		0.000452	0.00113	1	02/02/2019 16:30	WG1231708	
Bromobenzene	U		0.00119	0.0141	1	02/02/2019 16:30	WG1231708	
Bromodichloromethane	U		0.000891	0.00283	1	02/02/2019 16:30	WG1231708	
Bromochloromethane	U		0.00128	0.00565	1	02/02/2019 16:30	WG1231708	
Bromoform	U		0.00676	0.0283	1	02/02/2019 16:30	WG1231708	
Bromomethane	U		0.00418	0.0141	1	02/02/2019 16:30	WG1231708	
n-Butylbenzene	U		0.00434	0.0141	1	02/02/2019 16:30	WG1231708	
sec-Butylbenzene	U		0.00286	0.0141	1	02/02/2019 16:30	WG1231708	
tert-Butylbenzene	U		0.00175	0.00565	1	02/02/2019 16:30	WG1231708	
Carbon disulfide	U UJ	J0	0.00459	0.0141	1	02/02/2019 16:30	WG1231708	
Carbon tetrachloride	U		0.00122	0.00565	1	02/02/2019 16:30	WG1231708	
Chlorobenzene	U		0.000648	0.00283	1	02/02/2019 16:30	WG1231708	
Chlorodibromomethane	U		0.000509	0.00283	1	02/02/2019 16:30	WG1231708	
Chloroethane	U		0.00122	0.00565	1	02/02/2019 16:30	WG1231708	
Chloroform	U		0.000469	0.00283	1	02/02/2019 16:30	WG1231708	
Chloromethane	U		0.00157	0.0141	1	02/02/2019 16:30	WG1231708	
2-Chlorotoluene	U		0.00104	0.00283	1	02/02/2019 16:30	WG1231708	
4-Chlorotoluene	U		0.00128	0.00565	1	02/02/2019 16:30	WG1231708	
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0283	1	02/02/2019 16:30	WG1231708	
1,2-Dibromoethane	U		0.000593	0.00283	1	02/02/2019 16:30	WG1231708	
Dibromomethane	U		0.00113	0.00565	1	02/02/2019 16:30	WG1231708	
1,2-Dichlorobenzene	U		0.00164	0.00565	1	02/02/2019 16:30	WG1231708	
1,3-Dichlorobenzene	U		0.00192	0.00565	1	02/02/2019 16:30	WG1231708	
1,4-Dichlorobenzene	U		0.00223	0.00565	1	02/02/2019 16:30	WG1231708	
Dichlorodifluoromethane	U		0.000924	0.00283	1	02/02/2019 16:30	WG1231708	
1,1-Dichloroethane	U		0.000650	0.00283	1	02/02/2019 16:30	WG1231708	
1,2-Dichloroethane	U		0.000537	0.00283	1	02/02/2019 16:30	WG1231708	
1,1-Dichloroethene	U		0.000565	0.00283	1	02/02/2019 16:30	WG1231708	
cis-1,2-Dichloroethene	0.0193		0.000780	0.00283	1	02/02/2019 16:30	WG1231708	
trans-1,2-Dichloroethene	U		0.00162	0.00565	1	02/02/2019 16:30	WG1231708	
1,2-Dichloropropane	U		0.00144	0.00565	1	02/03/2019 14:03	WG1231857	
1,1-Dichloropropene	U		0.000791	0.00283	1	02/02/2019 16:30	WG1231708	
1,3-Dichloropropane	U		0.00198	0.00565	1	02/02/2019 16:30	WG1231708	
cis-1,3-Dichloropropene	U		0.000766	0.00283	1	02/02/2019 16:30	WG1231708	
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	02/02/2019 16:30	WG1231708	
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	02/02/2019 16:30	WG1231708	
2,2-Dichloropropane	U		0.000896	0.00283	1	02/02/2019 16:30	WG1231708	
Di-isopropyl ether	U		0.000396	0.00113	1	02/02/2019 16:30	WG1231708	
Ethylbenzene	U		0.000599	0.00283	1	02/02/2019 16:30	WG1231708	
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	02/02/2019 16:30	WG1231708	
2-Hexanone	U		0.0113	0.0283	1	02/02/2019 16:30	WG1231708	
n-Hexane	U		0.00120	0.00565	1	02/02/2019 16:30	WG1231708	
Iodomethane	U		0.00684	0.0141	1	02/02/2019 16:30	WG1231708	
Isopropylbenzene	U		0.000975	0.00283	1	02/02/2019 16:30	WG1231708	
p-Isopropyltoluene	U		0.00263	0.00565	1	02/02/2019 16:30	WG1231708	
2-Butanone (MEK)	U		0.0141	0.0283	1	02/03/2019 14:03	WG1231857	
Methylene Chloride	U		0.00750	0.0283	1	02/02/2019 16:30	WG1231708	JC 3/18/19
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	02/02/2019 16:30	WG1231708	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	02/02/2019 16:30	WG1231708
Naphthalene	U		0.00353	0.0141	1	02/02/2019 16:30	WG1231708
n-Propylbenzene	U		0.00133	0.00565	1	02/02/2019 16:30	WG1231708
Styrene	U		0.00309	0.0141	1	02/02/2019 16:30	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000565	0.00283	1	02/02/2019 16:30	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	02/02/2019 16:30	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00283	1	02/02/2019 16:30	WG1231708
Tetrachloroethene	0.000964 J	J	0.000791	0.00283	1	02/03/2019 14:03	WG1231857
Toluene	U		0.00141	0.00565	1	02/02/2019 16:30	WG1231708
1,2,3-Trichlorobenzene	U		0.000706	0.00283	1	02/02/2019 16:30	WG1231708
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	02/02/2019 16:30	WG1231708
1,1,1-Trichloroethane	U		0.000311	0.00283	1	02/02/2019 16:30	WG1231708
1,1,2-Trichloroethane	U		0.000998	0.00283	1	02/02/2019 16:30	WG1231708
Trichloroethene	0.00615		0.000452	0.00113	1	02/02/2019 16:30	WG1231708
Trichlorofluoromethane	U		0.000565	0.00283	1	02/02/2019 16:30	WG1231708
1,2,3-Trichloropropane	U		0.00576	0.0141	1	02/02/2019 16:30	WG1231708
1,2,4-Trimethylbenzene	U		0.00131	0.00565	1	02/02/2019 16:30	WG1231708
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	02/02/2019 16:30	WG1231708
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	02/02/2019 16:30	WG1231708
Vinyl acetate	U		0.00398	0.0141	1	02/02/2019 16:30	WG1231708
Vinyl chloride	U		0.000772	0.00283	1	02/02/2019 16:30	WG1231708
Xylenes, Total	U		0.00540	0.00735	1	02/02/2019 16:30	WG1231708
(S) Toluene-d8	*112*			*75.0-131*		*02/02/2019 16:30*	WG1231708
(S) Toluene-d8	*90.4*			*75.0-131*		*02/03/2019 14:03*	WG1231857
(S) Dibromofluoromethane	*83.3*			*65.0-129*		*02/02/2019 16:30*	WG1231708
(S) Dibromofluoromethane	*123*			*65.0-129*		*02/03/2019 14:03*	WG1231857
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*02/02/2019 16:30*	WG1231708
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*02/03/2019 14:03*	WG1231857

JC 3/18/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.2		1	02/01/2019 13:11	WG1231192

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0236 J	J	0.0157	0.0287	1	02/03/2019 14:22	WG1231857	
Acrylonitrile	U		0.00218	0.0143	1	02/02/2019 16:50	WG1231708	
Benzene	U		0.000459	0.00115	1	02/02/2019 16:50	WG1231708	
Bromobenzene	U		0.00120	0.0143	1	02/02/2019 16:50	WG1231708	
Bromodichloromethane	U		0.000904	0.00287	1	02/02/2019 16:50	WG1231708	
Bromochloromethane	U		0.00130	0.00574	1	02/02/2019 16:50	WG1231708	
Bromoform	U		0.00686	0.0287	1	02/02/2019 16:50	WG1231708	
Bromomethane	U		0.00425	0.0143	1	02/02/2019 16:50	WG1231708	
n-Butylbenzene	U		0.00441	0.0143	1	02/02/2019 16:50	WG1231708	
sec-Butylbenzene	U		0.00290	0.0143	1	02/02/2019 16:50	WG1231708	
tert-Butylbenzene	U		0.00178	0.00574	1	02/02/2019 16:50	WG1231708	
Carbon disulfide	U UJ	J0	0.00466	0.0143	1	02/02/2019 16:50	WG1231708	
Carbon tetrachloride	U		0.00124	0.00574	1	02/02/2019 16:50	WG1231708	
Chlorobenzene	U		0.000657	0.00287	1	02/02/2019 16:50	WG1231708	
Chlorodibromomethane	U		0.000516	0.00287	1	02/02/2019 16:50	WG1231708	
Chloroethane	U		0.00124	0.00574	1	02/02/2019 16:50	WG1231708	
Chloroform	U		0.000476	0.00287	1	02/02/2019 16:50	WG1231708	
Chloromethane	U		0.00159	0.0143	1	02/02/2019 16:50	WG1231708	
2-Chlorotoluene	U		0.00106	0.00287	1	02/02/2019 16:50	WG1231708	
4-Chlorotoluene	U		0.00130	0.00574	1	02/02/2019 16:50	WG1231708	
1,2-Dibromo-3-Chloropropane	U		0.00585	0.0287	1	02/02/2019 16:50	WG1231708	
1,2-Dibromoethane	U		0.000602	0.00287	1	02/02/2019 16:50	WG1231708	
Dibromomethane	U		0.00115	0.00574	1	02/02/2019 16:50	WG1231708	
1,2-Dichlorobenzene	U		0.00166	0.00574	1	02/02/2019 16:50	WG1231708	
1,3-Dichlorobenzene	U		0.00195	0.00574	1	02/02/2019 16:50	WG1231708	
1,4-Dichlorobenzene	U		0.00226	0.00574	1	02/02/2019 16:50	WG1231708	
Dichlorodifluoromethane	U		0.000939	0.00287	1	02/02/2019 16:50	WG1231708	
1,1-Dichloroethane	U		0.000660	0.00287	1	02/02/2019 16:50	WG1231708	
1,2-Dichloroethane	U		0.000545	0.00287	1	02/02/2019 16:50	WG1231708	
1,1-Dichloroethene	U		0.000574	0.00287	1	02/02/2019 16:50	WG1231708	
cis-1,2-Dichloroethene	0.0178		0.000792	0.00287	1	02/02/2019 16:50	WG1231708	
trans-1,2-Dichloroethene	U		0.00164	0.00574	1	02/02/2019 16:50	WG1231708	
1,2-Dichloropropane	U		0.00146	0.00574	1	02/03/2019 14:22	WG1231857	
1,1-Dichloropropene	U		0.000803	0.00287	1	02/02/2019 16:50	WG1231708	
1,3-Dichloropropane	U		0.00201	0.00574	1	02/02/2019 16:50	WG1231708	
cis-1,3-Dichloropropene	U		0.000778	0.00287	1	02/02/2019 16:50	WG1231708	
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	02/02/2019 16:50	WG1231708	
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	02/02/2019 16:50	WG1231708	
2,2-Dichloropropane	U		0.000910	0.00287	1	02/02/2019 16:50	WG1231708	
Di-isopropyl ether	U		0.000402	0.00115	1	02/02/2019 16:50	WG1231708	
Ethylbenzene	U		0.000608	0.00287	1	02/02/2019 16:50	WG1231708	
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	02/02/2019 16:50	WG1231708	
2-Hexanone	U		0.0115	0.0287	1	02/02/2019 16:50	WG1231708	
n-Hexane	U		0.00122	0.00574	1	02/02/2019 16:50	WG1231708	
Iodomethane	U		0.00694	0.0143	1	02/02/2019 16:50	WG1231708	
Isopropylbenzene	U		0.000990	0.00287	1	02/02/2019 16:50	WG1231708	
p-Isopropyltoluene	U		0.00267	0.00574	1	02/02/2019 16:50	WG1231708	
2-Butanone (MEK)	U		0.0143	0.0287	1	02/03/2019 14:22	WG1231857	
Methylene Chloride	0.00870 U	B J	0.00762	0.0287	1	02/02/2019 16:50	WG1231708	JC 3/18/19
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	02/02/2019 16:50	WG1231708	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000338	0.00115	1	02/02/2019 16:50	WG1231708
Naphthalene	U		0.00358	0.0143	1	02/02/2019 16:50	WG1231708
n-Propylbenzene	U		0.00135	0.00574	1	02/02/2019 16:50	WG1231708
Styrene	U		0.00313	0.0143	1	02/02/2019 16:50	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	02/02/2019 16:50	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000447	0.00287	1	02/02/2019 16:50	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000774	0.00287	1	02/02/2019 16:50	WG1231708
Tetrachloroethene	0.276 J	J4	0.000803	0.00287	1	02/02/2019 16:50	WG1231708
Toluene	U		0.00143	0.00574	1	02/02/2019 16:50	WG1231708
1,2,3-Trichlorobenzene	U		0.000717	0.00287	1	02/02/2019 16:50	WG1231708
1,2,4-Trichlorobenzene	U		0.00553	0.0143	1	02/02/2019 16:50	WG1231708
1,1,1-Trichloroethane	U		0.000316	0.00287	1	02/02/2019 16:50	WG1231708
1,1,2-Trichloroethane	U		0.00101	0.00287	1	02/02/2019 16:50	WG1231708
Trichloroethene	0.0152		0.000459	0.00115	1	02/02/2019 16:50	WG1231708
Trichlorofluoromethane	U		0.000574	0.00287	1	02/02/2019 16:50	WG1231708
1,2,3-Trichloropropane	U		0.00585	0.0143	1	02/02/2019 16:50	WG1231708
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	02/02/2019 16:50	WG1231708
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	02/02/2019 16:50	WG1231708
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	02/02/2019 16:50	WG1231708
Vinyl acetate	U		0.00404	0.0143	1	02/02/2019 16:50	WG1231708
Vinyl chloride	U		0.000784	0.00287	1	02/02/2019 16:50	WG1231708
Xylenes, Total	U		0.00548	0.00746	1	02/02/2019 16:50	WG1231708
(S) Toluene-d8	*112*			*75.0-131*		*02/02/2019 16:50*	WG1231708
(S) Toluene-d8	*94.2*			*75.0-131*		*02/03/2019 14:22*	WG1231857
(S) Dibromofluoromethane	*83.2*			*65.0-129*		*02/02/2019 16:50*	WG1231708
(S) Dibromofluoromethane	*118*			*65.0-129*		*02/03/2019 14:22*	WG1231857
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*02/02/2019 16:50*	WG1231708
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*02/03/2019 14:22*	WG1231857

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	02/01/2019 13:11	WG1231192

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0227 J	J	0.0160	0.0292	1	02/03/2019 14:41	WG1231857	
Acrylonitrile	U		0.00222	0.0146	1	02/02/2019 17:10	WG1231708	
Benzene	U		0.000467	0.00117	1	02/02/2019 17:10	WG1231708	
Bromobenzene	U		0.00123	0.0146	1	02/02/2019 17:10	WG1231708	
Bromodichloromethane	U		0.000920	0.00292	1	02/02/2019 17:10	WG1231708	
Bromochloromethane	U		0.00132	0.00584	1	02/02/2019 17:10	WG1231708	
Bromoform	U		0.00698	0.0292	1	02/02/2019 17:10	WG1231708	
Bromomethane	U		0.00432	0.0146	1	02/02/2019 17:10	WG1231708	
n-Butylbenzene	U		0.00448	0.0146	1	02/02/2019 17:10	WG1231708	
sec-Butylbenzene	U		0.00295	0.0146	1	02/02/2019 17:10	WG1231708	
tert-Butylbenzene	U		0.00181	0.00584	1	02/02/2019 17:10	WG1231708	
Carbon disulfide	U UJ	J0	0.00474	0.0146	1	02/02/2019 17:10	WG1231708	
Carbon tetrachloride	U		0.00126	0.00584	1	02/02/2019 17:10	WG1231708	
Chlorobenzene	U		0.000669	0.00292	1	02/02/2019 17:10	WG1231708	
Chlorodibromomethane	U		0.000525	0.00292	1	02/02/2019 17:10	WG1231708	
Chloroethane	U		0.00126	0.00584	1	02/02/2019 17:10	WG1231708	
Chloroform	U		0.000485	0.00292	1	02/02/2019 17:10	WG1231708	
Chloromethane	U		0.00162	0.0146	1	02/02/2019 17:10	WG1231708	
2-Chlorotoluene	U		0.00107	0.00292	1	02/02/2019 17:10	WG1231708	
4-Chlorotoluene	U		0.00132	0.00584	1	02/02/2019 17:10	WG1231708	
1,2-Dibromo-3-Chloropropane	U		0.00595	0.0292	1	02/02/2019 17:10	WG1231708	
1,2-Dibromoethane	U		0.000613	0.00292	1	02/02/2019 17:10	WG1231708	
Dibromomethane	U		0.00117	0.00584	1	02/02/2019 17:10	WG1231708	
1,2-Dichlorobenzene	U		0.00169	0.00584	1	02/02/2019 17:10	WG1231708	
1,3-Dichlorobenzene	U		0.00198	0.00584	1	02/02/2019 17:10	WG1231708	
1,4-Dichlorobenzene	U		0.00230	0.00584	1	02/02/2019 17:10	WG1231708	
Dichlorodifluoromethane	U		0.000955	0.00292	1	02/02/2019 17:10	WG1231708	
1,1-Dichloroethane	U		0.000671	0.00292	1	02/02/2019 17:10	WG1231708	
1,2-Dichloroethane	U		0.000555	0.00292	1	02/02/2019 17:10	WG1231708	
1,1-Dichloroethene	U		0.000584	0.00292	1	02/02/2019 17:10	WG1231708	
cis-1,2-Dichloroethene	0.00108 J	J	0.000806	0.00292	1	02/02/2019 17:10	WG1231708	
trans-1,2-Dichloroethene	U		0.00167	0.00584	1	02/02/2019 17:10	WG1231708	
1,2-Dichloropropane	U		0.00148	0.00584	1	02/03/2019 14:41	WG1231857	
1,1-Dichloropropene	U		0.000817	0.00292	1	02/02/2019 17:10	WG1231708	
1,3-Dichloropropane	U		0.00204	0.00584	1	02/02/2019 17:10	WG1231708	
cis-1,3-Dichloropropene	U		0.000792	0.00292	1	02/02/2019 17:10	WG1231708	
trans-1,3-Dichloropropene	U		0.00179	0.00584	1	02/02/2019 17:10	WG1231708	
trans-1,4-Dichloro-2-butene	U		0.00163	0.00584	1	02/02/2019 17:10	WG1231708	
2,2-Dichloropropane	U		0.000926	0.00292	1	02/02/2019 17:10	WG1231708	
Di-isopropyl ether	U		0.000409	0.00117	1	02/02/2019 17:10	WG1231708	
Ethylbenzene	U		0.000619	0.00292	1	02/02/2019 17:10	WG1231708	
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	02/02/2019 17:10	WG1231708	
2-Hexanone	U		0.0117	0.0292	1	02/02/2019 17:10	WG1231708	
n-Hexane	U		0.00124	0.00584	1	02/02/2019 17:10	WG1231708	
Iodomethane	U		0.00706	0.0146	1	02/02/2019 17:10	WG1231708	
Isopropylbenzene	U		0.00101	0.00292	1	02/02/2019 17:10	WG1231708	
p-Isopropyltoluene	U		0.00272	0.00584	1	02/02/2019 17:10	WG1231708	
2-Butanone (MEK)	0.0200 J	J	0.0146	0.0292	1	02/03/2019 14:41	WG1231857	JC 3/18/19
Methylene Chloride	U		0.00775	0.0292	1	02/02/2019 17:10	WG1231708	
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	02/02/2019 17:10	WG1231708	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	02/02/2019 17:10	WG1231708
Naphthalene	U		0.00364	0.0146	1	02/02/2019 17:10	WG1231708
n-Propylbenzene	U		0.00138	0.00584	1	02/02/2019 17:10	WG1231708
Styrene	U		0.00319	0.0146	1	02/02/2019 17:10	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000584	0.00292	1	02/02/2019 17:10	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000455	0.00292	1	02/02/2019 17:10	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000788	0.00292	1	02/02/2019 17:10	WG1231708
Tetrachloroethene	0.00679 J	J4	0.000817	0.00292	1	02/02/2019 17:10	WG1231708
Toluene	U		0.00146	0.00584	1	02/02/2019 17:10	WG1231708
1,2,3-Trichlorobenzene	U		0.000730	0.00292	1	02/02/2019 17:10	WG1231708
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1	02/02/2019 17:10	WG1231708
1,1,1-Trichloroethane	U		0.000321	0.00292	1	02/02/2019 17:10	WG1231708
1,1,2-Trichloroethane	U		0.00103	0.00292	1	02/02/2019 17:10	WG1231708
Trichloroethene	U		0.000467	0.00117	1	02/02/2019 17:10	WG1231708
Trichlorofluoromethane	U		0.000584	0.00292	1	02/02/2019 17:10	WG1231708
1,2,3-Trichloropropane	U		0.00595	0.0146	1	02/02/2019 17:10	WG1231708
1,2,4-Trimethylbenzene	U		0.00135	0.00584	1	02/02/2019 17:10	WG1231708
1,2,3-Trimethylbenzene	U		0.00134	0.00584	1	02/02/2019 17:10	WG1231708
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1	02/02/2019 17:10	WG1231708
Vinyl acetate	U		0.00411	0.0146	1	02/02/2019 17:10	WG1231708
Vinyl chloride	U		0.000797	0.00292	1	02/02/2019 17:10	WG1231708
Xylenes, Total	U		0.00558	0.00759	1	02/02/2019 17:10	WG1231708
(S) Toluene-d8	*112*			*75.0-131*		*02/02/2019 17:10*	WG1231708
(S) Toluene-d8	*98.8*			*75.0-131*		*02/03/2019 14:41*	WG1231857
(S) Dibromofluoromethane	*81.9*			*65.0-129*		*02/02/2019 17:10*	WG1231708
(S) Dibromofluoromethane	*113*			*65.0-129*		*02/03/2019 14:41*	WG1231857
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*02/02/2019 17:10*	WG1231708
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*02/03/2019 14:41*	WG1231857

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.0		1	02/01/2019 13:11	WG1231192

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0259	J	J	0.0154	0.0281	1	02/03/2019 15:00	WG1231857
Acrylonitrile	U			0.00214	0.0141	1	02/02/2019 17:31	WG1231708
Benzene	U			0.000450	0.00112	1	02/02/2019 17:31	WG1231708
Bromobenzene	U			0.00118	0.0141	1	02/02/2019 17:31	WG1231708
Bromodichloromethane	U			0.000886	0.00281	1	02/02/2019 17:31	WG1231708
Bromochloromethane	U			0.00127	0.00562	1	02/02/2019 17:31	WG1231708
Bromoform	U			0.00672	0.0281	1	02/02/2019 17:31	WG1231708
Bromomethane	U			0.00416	0.0141	1	02/02/2019 17:31	WG1231708
n-Butylbenzene	U			0.00432	0.0141	1	02/02/2019 17:31	WG1231708
sec-Butylbenzene	U			0.00284	0.0141	1	02/02/2019 17:31	WG1231708
tert-Butylbenzene	U			0.00174	0.00562	1	02/02/2019 17:31	WG1231708
Carbon disulfide	U	UJ	J0	0.00456	0.0141	1	02/02/2019 17:31	WG1231708
Carbon tetrachloride	U			0.00121	0.00562	1	02/02/2019 17:31	WG1231708
Chlorobenzene	U			0.000644	0.00281	1	02/02/2019 17:31	WG1231708
Chlorodibromomethane	U			0.000506	0.00281	1	02/02/2019 17:31	WG1231708
Chloroethane	U			0.00121	0.00562	1	02/02/2019 17:31	WG1231708
Chloroform	U			0.000466	0.00281	1	02/02/2019 17:31	WG1231708
Chloromethane	U			0.00156	0.0141	1	02/02/2019 17:31	WG1231708
2-Chlorotoluene	U			0.00103	0.00281	1	02/02/2019 17:31	WG1231708
4-Chlorotoluene	U			0.00127	0.00562	1	02/02/2019 17:31	WG1231708
1,2-Dibromo-3-Chloropropane	U			0.00573	0.0281	1	02/02/2019 17:31	WG1231708
1,2-Dibromoethane	U			0.000590	0.00281	1	02/02/2019 17:31	WG1231708
Dibromomethane	U			0.00112	0.00562	1	02/02/2019 17:31	WG1231708
1,2-Dichlorobenzene	U			0.00163	0.00562	1	02/02/2019 17:31	WG1231708
1,3-Dichlorobenzene	U			0.00191	0.00562	1	02/02/2019 17:31	WG1231708
1,4-Dichlorobenzene	U			0.00221	0.00562	1	02/02/2019 17:31	WG1231708
Dichlorodifluoromethane	U			0.000920	0.00281	1	02/02/2019 17:31	WG1231708
1,1-Dichloroethane	U			0.000646	0.00281	1	02/02/2019 17:31	WG1231708
1,2-Dichloroethane	U			0.000534	0.00281	1	02/02/2019 17:31	WG1231708
1,1-Dichloroethene	U			0.000562	0.00281	1	02/02/2019 17:31	WG1231708
cis-1,2-Dichloroethene	0.00206	J	J	0.000776	0.00281	1	02/02/2019 17:31	WG1231708
trans-1,2-Dichloroethene	U			0.00161	0.00562	1	02/02/2019 17:31	WG1231708
1,2-Dichloropropane	U			0.00143	0.00562	1	02/03/2019 15:00	WG1231857
1,1-Dichloropropene	U			0.000787	0.00281	1	02/02/2019 17:31	WG1231708
1,3-Dichloropropane	U			0.00197	0.00562	1	02/02/2019 17:31	WG1231708
cis-1,3-Dichloropropene	U			0.000762	0.00281	1	02/02/2019 17:31	WG1231708
trans-1,3-Dichloropropene	U			0.00172	0.00562	1	02/02/2019 17:31	WG1231708
trans-1,4-Dichloro-2-butene	U			0.00157	0.00562	1	02/02/2019 17:31	WG1231708
2,2-Dichloropropane	U			0.000891	0.00281	1	02/02/2019 17:31	WG1231708
Di-isopropyl ether	U			0.000393	0.00112	1	02/02/2019 17:31	WG1231708
Ethylbenzene	U			0.000596	0.00281	1	02/02/2019 17:31	WG1231708
Hexachloro-1,3-butadiene	U			0.0143	0.0281	1	02/02/2019 17:31	WG1231708
2-Hexanone	U			0.0112	0.0281	1	02/02/2019 17:31	WG1231708
n-Hexane	U			0.00119	0.00562	1	02/02/2019 17:31	WG1231708
Iodomethane	U			0.00680	0.0141	1	02/02/2019 17:31	WG1231708
Isopropylbenzene	U			0.000970	0.00281	1	02/02/2019 17:31	WG1231708
p-Isopropyltoluene	U			0.00262	0.00562	1	02/02/2019 17:31	WG1231708
2-Butanone (MEK)	0.0251	J	J	0.0141	0.0281	1	02/03/2019 15:00	WG1231857
Methylene Chloride	U			0.00746	0.0281	1	02/02/2019 17:31	WG1231708
4-Methyl-2-pentanone (MIBK)	U			0.0112	0.0281	1	02/02/2019 17:31	WG1231708

JC 3/18/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00112	1	02/02/2019 17:31	WG1231708
Naphthalene	U		0.00351	0.0141	1	02/02/2019 17:31	WG1231708
n-Propylbenzene	U		0.00133	0.00562	1	02/02/2019 17:31	WG1231708
Styrene	U		0.00307	0.0141	1	02/02/2019 17:31	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	02/02/2019 17:31	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	02/02/2019 17:31	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000759	0.00281	1	02/02/2019 17:31	WG1231708
Tetrachloroethene	0.0269 J	J4	0.000787	0.00281	1	02/02/2019 17:31	WG1231708
Toluene	U		0.00141	0.00562	1	02/02/2019 17:31	WG1231708
1,2,3-Trichlorobenzene	U		0.000703	0.00281	1	02/02/2019 17:31	WG1231708
1,2,4-Trichlorobenzene	U		0.00542	0.0141	1	02/02/2019 17:31	WG1231708
1,1,1-Trichloroethane	U		0.000309	0.00281	1	02/02/2019 17:31	WG1231708
1,1,2-Trichloroethane	U		0.000993	0.00281	1	02/02/2019 17:31	WG1231708
Trichloroethene	0.00349		0.000450	0.00112	1	02/02/2019 17:31	WG1231708
Trichlorofluoromethane	U		0.000562	0.00281	1	02/02/2019 17:31	WG1231708
1,2,3-Trichloropropane	U		0.00573	0.0141	1	02/02/2019 17:31	WG1231708
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	02/02/2019 17:31	WG1231708
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	02/02/2019 17:31	WG1231708
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	02/02/2019 17:31	WG1231708
Vinyl acetate	U		0.00396	0.0141	1	02/02/2019 17:31	WG1231708
Vinyl chloride	U		0.000768	0.00281	1	02/02/2019 17:31	WG1231708
Xylenes, Total	U		0.00537	0.00731	1	02/02/2019 17:31	WG1231708
(S) Toluene-d8	*116*			*75.0-131*		*02/02/2019 17:31*	WG1231708
(S) Toluene-d8	*95.6*			*75.0-131*		*02/03/2019 15:00*	WG1231857
(S) Dibromofluoromethane	*84.2*			*65.0-129*		*02/02/2019 17:31*	WG1231708
(S) Dibromofluoromethane	*116*			*65.0-129*		*02/03/2019 15:00*	WG1231857
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*02/02/2019 17:31*	WG1231708
(S) 4-Bromofluorobenzene	*114*			*67.0-138*		*02/03/2019 15:00*	WG1231857

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-162-110
Collected date/time: 01/28/19 14:47

SAMPLE RESULTS - 13

L1065738

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.4		1	02/01/2019 13:11	WG1231192

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0196	J	J	0.0150	0.0274	1	02/03/2019 15:19	WG1231857
Acrylonitrile	U			0.00208	0.0137	1	02/02/2019 17:51	WG1231708
Benzene	U			0.000438	0.00109	1	02/02/2019 17:51	WG1231708
Bromobenzene	U			0.00115	0.0137	1	02/02/2019 17:51	WG1231708
Bromodichloromethane	U			0.000862	0.00274	1	02/02/2019 17:51	WG1231708
Bromochloromethane	U			0.00124	0.00547	1	02/02/2019 17:51	WG1231708
Bromoform	U			0.00655	0.0274	1	02/02/2019 17:51	WG1231708
Bromomethane	U			0.00405	0.0137	1	02/02/2019 17:51	WG1231708
n-Butylbenzene	U			0.00420	0.0137	1	02/02/2019 17:51	WG1231708
sec-Butylbenzene	U			0.00277	0.0137	1	02/02/2019 17:51	WG1231708
tert-Butylbenzene	U			0.00170	0.00547	1	02/02/2019 17:51	WG1231708
Carbon disulfide	U	UJ	J0	0.00444	0.0137	1	02/02/2019 17:51	WG1231708
Carbon tetrachloride	U			0.00118	0.00547	1	02/02/2019 17:51	WG1231708
Chlorobenzene	U			0.000627	0.00274	1	02/02/2019 17:51	WG1231708
Chlorodibromomethane	U			0.000493	0.00274	1	02/02/2019 17:51	WG1231708
Chloroethane	U			0.00118	0.00547	1	02/02/2019 17:51	WG1231708
Chloroform	U			0.000454	0.00274	1	02/02/2019 17:51	WG1231708
Chloromethane	U			0.00152	0.0137	1	02/02/2019 17:51	WG1231708
2-Chlorotoluene	U			0.00101	0.00274	1	02/02/2019 17:51	WG1231708
4-Chlorotoluene	U			0.00124	0.00547	1	02/02/2019 17:51	WG1231708
1,2-Dibromo-3-Chloropropane	U			0.00558	0.0274	1	02/02/2019 17:51	WG1231708
1,2-Dibromoethane	U			0.000575	0.00274	1	02/02/2019 17:51	WG1231708
Dibromomethane	U			0.00109	0.00547	1	02/02/2019 17:51	WG1231708
1,2-Dichlorobenzene	U			0.00159	0.00547	1	02/02/2019 17:51	WG1231708
1,3-Dichlorobenzene	U			0.00186	0.00547	1	02/02/2019 17:51	WG1231708
1,4-Dichlorobenzene	U			0.00216	0.00547	1	02/02/2019 17:51	WG1231708
Dichlorodifluoromethane	U			0.000895	0.00274	1	02/02/2019 17:51	WG1231708
1,1-Dichloroethane	U			0.000629	0.00274	1	02/02/2019 17:51	WG1231708
1,2-Dichloroethane	U			0.000520	0.00274	1	02/02/2019 17:51	WG1231708
1,1-Dichloroethene	U			0.000547	0.00274	1	02/02/2019 17:51	WG1231708
cis-1,2-Dichloroethene	U			0.000755	0.00274	1	02/02/2019 17:51	WG1231708
trans-1,2-Dichloroethene	U			0.00157	0.00547	1	02/02/2019 17:51	WG1231708
1,2-Dichloropropane	U			0.00139	0.00547	1	02/03/2019 15:19	WG1231857
1,1-Dichloropropene	U			0.000766	0.00274	1	02/02/2019 17:51	WG1231708
1,3-Dichloropropane	U			0.00192	0.00547	1	02/02/2019 17:51	WG1231708
cis-1,3-Dichloropropene	U			0.000742	0.00274	1	02/02/2019 17:51	WG1231708
trans-1,3-Dichloropropene	U			0.00167	0.00547	1	02/02/2019 17:51	WG1231708
trans-1,4-Dichloro-2-butene	U			0.00153	0.00547	1	02/02/2019 17:51	WG1231708
2,2-Dichloropropane	U			0.000868	0.00274	1	02/02/2019 17:51	WG1231708
Di-isopropyl ether	U			0.000383	0.00109	1	02/02/2019 17:51	WG1231708
Ethylbenzene	U			0.000580	0.00274	1	02/02/2019 17:51	WG1231708
Hexachloro-1,3-butadiene	U			0.0139	0.0274	1	02/02/2019 17:51	WG1231708
2-Hexanone	U			0.0109	0.0274	1	02/02/2019 17:51	WG1231708
n-Hexane	U			0.00116	0.00547	1	02/02/2019 17:51	WG1231708
Iodomethane	U			0.00662	0.0137	1	02/02/2019 17:51	WG1231708
Isopropylbenzene	U			0.000945	0.00274	1	02/02/2019 17:51	WG1231708
p-Isopropyltoluene	U			0.00255	0.00547	1	02/02/2019 17:51	WG1231708
2-Butanone (MEK)	0.0213	J	J	0.0137	0.0274	1	02/03/2019 15:19	WG1231857
Methylene Chloride	U			0.00727	0.0274	1	02/02/2019 17:51	WG1231708
4-Methyl-2-pentanone (MIBK)	U			0.0109	0.0274	1	02/02/2019 17:51	WG1231708

JC 3/18/19

MW-162-110
Collected date/time: 01/28/19 14:47

SAMPLE RESULTS - 13

L1065738

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00109	1	02/02/2019 17:51	WG1231708
Naphthalene	U		0.00341	0.0137	1	02/02/2019 17:51	WG1231708
n-Propylbenzene	U		0.00129	0.00547	1	02/02/2019 17:51	WG1231708
Styrene	U		0.00299	0.0137	1	02/02/2019 17:51	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000547	0.00274	1	02/02/2019 17:51	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000427	0.00274	1	02/02/2019 17:51	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000739	0.00274	1	02/02/2019 17:51	WG1231708
Tetrachloroethene	0.00190 J	J J4	0.000766	0.00274	1	02/02/2019 17:51	WG1231708
Toluene	U		0.00137	0.00547	1	02/02/2019 17:51	WG1231708
1,2,3-Trichlorobenzene	U		0.000684	0.00274	1	02/02/2019 17:51	WG1231708
1,2,4-Trichlorobenzene	U		0.00528	0.0137	1	02/02/2019 17:51	WG1231708
1,1,1-Trichloroethane	U		0.000301	0.00274	1	02/02/2019 17:51	WG1231708
1,1,2-Trichloroethane	U		0.000966	0.00274	1	02/02/2019 17:51	WG1231708
Trichloroethene	U		0.000438	0.00109	1	02/02/2019 17:51	WG1231708
Trichlorofluoromethane	U		0.000547	0.00274	1	02/02/2019 17:51	WG1231708
1,2,3-Trichloropropane	U		0.00558	0.0137	1	02/02/2019 17:51	WG1231708
1,2,4-Trimethylbenzene	U		0.00127	0.00547	1	02/02/2019 17:51	WG1231708
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	02/02/2019 17:51	WG1231708
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	02/02/2019 17:51	WG1231708
Vinyl acetate	U		0.00385	0.0137	1	02/02/2019 17:51	WG1231708
Vinyl chloride	U		0.000748	0.00274	1	02/02/2019 17:51	WG1231708
Xylenes, Total	U		0.00523	0.00711	1	02/02/2019 17:51	WG1231708
(S) Toluene-d8	*113*			*75.0-131*		*02/02/2019 17:51*	WG1231708
(S) Toluene-d8	*95.8*			*75.0-131*		*02/03/2019 15:19*	WG1231857
(S) Dibromofluoromethane	*82.5*			*65.0-129*		*02/02/2019 17:51*	WG1231708
(S) Dibromofluoromethane	*112*			*65.0-129*		*02/03/2019 15:19*	WG1231857
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*02/02/2019 17:51*	WG1231708
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*02/03/2019 15:19*	WG1231857

JC 3/18/19

MW-163-47

Collected date/time: 01/29/19 11:03

SAMPLE RESULTS - 14

L1065738

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	02/01/2019 13:11	WG1231192

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	1.30	J		0.306	0.559	20	02/03/2019 18:09	WG1231857
Acrylonitrile	U			0.00212	0.0140	1	02/02/2019 18:11	WG1231708
Benzene	0.000517	J	J	0.000447	0.00112	1	02/02/2019 18:11	WG1231708
Bromobenzene	U			0.00117	0.0140	1	02/02/2019 18:11	WG1231708
Bromodichloromethane	U			0.000881	0.00280	1	02/02/2019 18:11	WG1231708
Bromochloromethane	U			0.00126	0.00559	1	02/02/2019 18:11	WG1231708
Bromoform	U			0.00669	0.0280	1	02/02/2019 18:11	WG1231708
Bromomethane	U			0.00414	0.0140	1	02/02/2019 18:11	WG1231708
n-Butylbenzene	U			0.00429	0.0140	1	02/02/2019 18:11	WG1231708
sec-Butylbenzene	U			0.00283	0.0140	1	02/02/2019 18:11	WG1231708
tert-Butylbenzene	U			0.00173	0.00559	1	02/02/2019 18:11	WG1231708
Carbon disulfide	U	UJ	J0	0.00454	0.0140	1	02/02/2019 18:11	WG1231708
Carbon tetrachloride	U			0.00121	0.00559	1	02/02/2019 18:11	WG1231708
Chlorobenzene	U			0.000641	0.00280	1	02/02/2019 18:11	WG1231708
Chlorodibromomethane	U			0.000503	0.00280	1	02/02/2019 18:11	WG1231708
Chloroethane	U			0.00121	0.00559	1	02/02/2019 18:11	WG1231708
Chloroform	U			0.000464	0.00280	1	02/02/2019 18:11	WG1231708
Chloromethane	U			0.00155	0.0140	1	02/02/2019 18:11	WG1231708
2-Chlorotoluene	U			0.00103	0.00280	1	02/02/2019 18:11	WG1231708
4-Chlorotoluene	U			0.00126	0.00559	1	02/02/2019 18:11	WG1231708
1,2-Dibromo-3-Chloropropane	U			0.00570	0.0280	1	02/02/2019 18:11	WG1231708
1,2-Dibromoethane	U			0.000587	0.00280	1	02/02/2019 18:11	WG1231708
Dibromomethane	U			0.00112	0.00559	1	02/02/2019 18:11	WG1231708
1,2-Dichlorobenzene	U			0.00162	0.00559	1	02/02/2019 18:11	WG1231708
1,3-Dichlorobenzene	U			0.00190	0.00559	1	02/02/2019 18:11	WG1231708
1,4-Dichlorobenzene	U			0.00220	0.00559	1	02/02/2019 18:11	WG1231708
Dichlorodifluoromethane	U			0.000915	0.00280	1	02/02/2019 18:11	WG1231708
1,1-Dichloroethane	U			0.000643	0.00280	1	02/02/2019 18:11	WG1231708
1,2-Dichloroethane	U			0.000531	0.00280	1	02/02/2019 18:11	WG1231708
1,1-Dichloroethene	0.00751			0.000559	0.00280	1	02/02/2019 18:11	WG1231708
cis-1,2-Dichloroethene	5.83	J		0.0154	0.0559	20	02/03/2019 18:09	WG1231857
trans-1,2-Dichloroethene	0.0358			0.00160	0.00559	1	02/02/2019 18:11	WG1231708
1,2-Dichloropropane	U			0.0284	0.112	20	02/03/2019 18:09	WG1231857
1,1-Dichloropropene	U			0.000783	0.00280	1	02/02/2019 18:11	WG1231708
1,3-Dichloropropane	U			0.00196	0.00559	1	02/02/2019 18:11	WG1231708
cis-1,3-Dichloropropene	U			0.000758	0.00280	1	02/02/2019 18:11	WG1231708
trans-1,3-Dichloropropene	U			0.00171	0.00559	1	02/02/2019 18:11	WG1231708
trans-1,4-Dichloro-2-butene	U			0.00157	0.00559	1	02/02/2019 18:11	WG1231708
2,2-Dichloropropane	U			0.000887	0.00280	1	02/02/2019 18:11	WG1231708
Di-isopropyl ether	U			0.000391	0.00112	1	02/02/2019 18:11	WG1231708
Ethylbenzene	U			0.000593	0.00280	1	02/02/2019 18:11	WG1231708
Hexachloro-1,3-butadiene	U			0.0142	0.0280	1	02/02/2019 18:11	WG1231708
2-Hexanone	U			0.0112	0.0280	1	02/02/2019 18:11	WG1231708
n-Hexane	U			0.00119	0.00559	1	02/02/2019 18:11	WG1231708
Iodomethane	U			0.00677	0.0140	1	02/02/2019 18:11	WG1231708
Isopropylbenzene	U			0.000965	0.00280	1	02/02/2019 18:11	WG1231708
p-Isopropyltoluene	U			0.00261	0.00559	1	02/02/2019 18:11	WG1231708
2-Butanone (MEK)	U			0.280	0.559	20	02/03/2019 18:09	WG1231857
Methylene Chloride	U			0.00743	0.0280	1	02/02/2019 18:11	WG1231708
4-Methyl-2-pentanone (MIBK)	U			0.0112	0.0280	1	02/02/2019 18:11	WG1231708

JC 3/18/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	02/02/2019 18:11	WG1231708
Naphthalene	U		0.00349	0.0140	1	02/02/2019 18:11	WG1231708
n-Propylbenzene	U		0.00132	0.00559	1	02/02/2019 18:11	WG1231708
Styrene	U		0.00305	0.0140	1	02/02/2019 18:11	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000559	0.00280	1	02/02/2019 18:11	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000436	0.00280	1	02/02/2019 18:11	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000755	0.00280	1	02/02/2019 18:11	WG1231708
Tetrachloroethene	7.09 J		0.0157	0.0559	20	02/03/2019 18:09	WG1231857
Toluene	0.00160 J	J	0.00140	0.00559	1	02/02/2019 18:11	WG1231708
1,2,3-Trichlorobenzene	U		0.000699	0.00280	1	02/02/2019 18:11	WG1231708
1,2,4-Trichlorobenzene	U		0.00539	0.0140	1	02/02/2019 18:11	WG1231708
1,1,1-Trichloroethane	U		0.000308	0.00280	1	02/02/2019 18:11	WG1231708
1,1,2-Trichloroethane	U		0.000988	0.00280	1	02/02/2019 18:11	WG1231708
Trichloroethene	0.745		0.000447	0.00112	1	02/02/2019 18:11	WG1231708
Trichlorofluoromethane	U		0.000559	0.00280	1	02/02/2019 18:11	WG1231708
1,2,3-Trichloropropane	U		0.00570	0.0140	1	02/02/2019 18:11	WG1231708
1,2,4-Trimethylbenzene	0.00329 J	J	0.00130	0.00559	1	02/02/2019 18:11	WG1231708
1,2,3-Trimethylbenzene	0.00144 J	J	0.00129	0.00559	1	02/02/2019 18:11	WG1231708
1,3,5-Trimethylbenzene	0.00143 J	J	0.00121	0.00559	1	02/02/2019 18:11	WG1231708
Vinyl acetate	U		0.00394	0.0140	1	02/02/2019 18:11	WG1231708
Vinyl chloride	0.0322		0.000764	0.00280	1	02/02/2019 18:11	WG1231708
Xylenes, Total	U		0.00535	0.00727	1	02/02/2019 18:11	WG1231708
(S) Toluene-d8	*107*			*75.0-131*		*02/02/2019 18:11*	WG1231708
(S) Toluene-d8	*90.3*			*75.0-131*		*02/03/2019 18:09*	WG1231857
(S) Dibromofluoromethane	*83.2*			*65.0-129*		*02/02/2019 18:11*	WG1231708
(S) Dibromofluoromethane	*131*	J1		*65.0-129*		*02/03/2019 18:09*	WG1231857
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*02/02/2019 18:11*	WG1231708
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*02/03/2019 18:09*	WG1231857

Sample Narrative:

L1065738-14 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-14 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.6		1	02/01/2019 13:11	WG1231192

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.797 J		0.296	0.540	20	02/03/2019 18:29	WG1231857
Acrylonitrile	U		0.00205	0.0135	1	02/02/2019 18:31	WG1231708
Benzene	0.000594 J	J	0.000432	0.00108	1	02/02/2019 18:31	WG1231708
Bromobenzene	U		0.00113	0.0135	1	02/02/2019 18:31	WG1231708
Bromodichloromethane	U		0.000851	0.00270	1	02/02/2019 18:31	WG1231708
Bromochloromethane	U		0.00122	0.00540	1	02/02/2019 18:31	WG1231708
Bromoform	U		0.00646	0.0270	1	02/02/2019 18:31	WG1231708
Bromomethane	U		0.00400	0.0135	1	02/02/2019 18:31	WG1231708
n-Butylbenzene	U		0.00415	0.0135	1	02/02/2019 18:31	WG1231708
sec-Butylbenzene	U		0.00273	0.0135	1	02/02/2019 18:31	WG1231708
tert-Butylbenzene	U		0.00167	0.00540	1	02/02/2019 18:31	WG1231708
Carbon disulfide	U UJ	J0	0.00439	0.0135	1	02/02/2019 18:31	WG1231708
Carbon tetrachloride	U		0.00117	0.00540	1	02/02/2019 18:31	WG1231708
Chlorobenzene	U		0.000619	0.00270	1	02/02/2019 18:31	WG1231708
Chlorodibromomethane	U		0.000486	0.00270	1	02/02/2019 18:31	WG1231708
Chloroethane	U		0.00117	0.00540	1	02/02/2019 18:31	WG1231708
Chloroform	U		0.000448	0.00270	1	02/02/2019 18:31	WG1231708
Chloromethane	U		0.00150	0.0135	1	02/02/2019 18:31	WG1231708
2-Chlorotoluene	U		0.000994	0.00270	1	02/02/2019 18:31	WG1231708
4-Chlorotoluene	U		0.00122	0.00540	1	02/02/2019 18:31	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00551	0.0270	1	02/02/2019 18:31	WG1231708
1,2-Dibromoethane	U		0.000567	0.00270	1	02/02/2019 18:31	WG1231708
Dibromomethane	U		0.00108	0.00540	1	02/02/2019 18:31	WG1231708
1,2-Dichlorobenzene	U		0.00157	0.00540	1	02/02/2019 18:31	WG1231708
1,3-Dichlorobenzene	U		0.00184	0.00540	1	02/02/2019 18:31	WG1231708
1,4-Dichlorobenzene	U		0.00213	0.00540	1	02/02/2019 18:31	WG1231708
Dichlorodifluoromethane	U		0.000884	0.00270	1	02/02/2019 18:31	WG1231708
1,1-Dichloroethane	U		0.000621	0.00270	1	02/02/2019 18:31	WG1231708
1,2-Dichloroethane	U		0.000513	0.00270	1	02/02/2019 18:31	WG1231708
1,1-Dichloroethene	0.0283		0.000540	0.00270	1	02/02/2019 18:31	WG1231708
cis-1,2-Dichloroethene	16.6 J		0.0149	0.0540	20	02/03/2019 18:29	WG1231857
trans-1,2-Dichloroethene	0.132		0.00154	0.00540	1	02/02/2019 18:31	WG1231708
1,2-Dichloropropane	U		0.0274	0.108	20	02/03/2019 18:29	WG1231857
1,1-Dichloropropene	U		0.000756	0.00270	1	02/02/2019 18:31	WG1231708
1,3-Dichloropropane	U		0.00189	0.00540	1	02/02/2019 18:31	WG1231708
cis-1,3-Dichloropropene	U		0.000732	0.00270	1	02/02/2019 18:31	WG1231708
trans-1,3-Dichloropropene	U		0.00165	0.00540	1	02/02/2019 18:31	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00151	0.00540	1	02/02/2019 18:31	WG1231708
2,2-Dichloropropane	U		0.000857	0.00270	1	02/02/2019 18:31	WG1231708
Di-isopropyl ether	U		0.000378	0.00108	1	02/02/2019 18:31	WG1231708
Ethylbenzene	U		0.000573	0.00270	1	02/02/2019 18:31	WG1231708
Hexachloro-1,3-butadiene	U		0.0137	0.0270	1	02/02/2019 18:31	WG1231708
2-Hexanone	U		0.0108	0.0270	1	02/02/2019 18:31	WG1231708
n-Hexane	U		0.00115	0.00540	1	02/02/2019 18:31	WG1231708
Iodomethane	U		0.00654	0.0135	1	02/02/2019 18:31	WG1231708
Isopropylbenzene	U		0.000932	0.00270	1	02/02/2019 18:31	WG1231708
p-Isopropyltoluene	U		0.00252	0.00540	1	02/02/2019 18:31	WG1231708
2-Butanone (MEK)	U		0.270	0.540	20	02/03/2019 18:29	WG1231857
Methylene Chloride	U		0.00717	0.0270	1	02/02/2019 18:31	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0270	1	02/02/2019 18:31	WG1231708

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000319	0.00108	1	02/02/2019 18:31	WG1231708
Naphthalene	U		0.00337	0.0135	1	02/02/2019 18:31	WG1231708
n-Propylbenzene	U		0.00127	0.00540	1	02/02/2019 18:31	WG1231708
Styrene	U		0.00295	0.0135	1	02/02/2019 18:31	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000540	0.00270	1	02/02/2019 18:31	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000421	0.00270	1	02/02/2019 18:31	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000729	0.00270	1	02/02/2019 18:31	WG1231708
Tetrachloroethene	2.61 J		0.0151	0.0540	20	02/03/2019 18:29	WG1231857
Toluene	0.00254 J	J	0.00135	0.00540	1	02/02/2019 18:31	WG1231708
1,2,3-Trichlorobenzene	U		0.000675	0.00270	1	02/02/2019 18:31	WG1231708
1,2,4-Trichlorobenzene	U		0.00521	0.0135	1	02/02/2019 18:31	WG1231708
1,1,1-Trichloroethane	U		0.000297	0.00270	1	02/02/2019 18:31	WG1231708
1,1,2-Trichloroethane	U		0.000954	0.00270	1	02/02/2019 18:31	WG1231708
Trichloroethene	0.128		0.000432	0.00108	1	02/02/2019 18:31	WG1231708
Trichlorofluoromethane	U		0.000540	0.00270	1	02/02/2019 18:31	WG1231708
1,2,3-Trichloropropane	U		0.00551	0.0135	1	02/02/2019 18:31	WG1231708
1,2,4-Trimethylbenzene	0.00129 J	J	0.00125	0.00540	1	02/02/2019 18:31	WG1231708
1,2,3-Trimethylbenzene	0.00125 J	J	0.00124	0.00540	1	02/02/2019 18:31	WG1231708
1,3,5-Trimethylbenzene	U		0.00117	0.00540	1	02/02/2019 18:31	WG1231708
Vinyl acetate	U		0.00380	0.0135	1	02/02/2019 18:31	WG1231708
Vinyl chloride	0.189		0.000738	0.00270	1	02/02/2019 18:31	WG1231708
Xylenes, Total	U		0.00516	0.00702	1	02/02/2019 18:31	WG1231708
(S) Toluene-d8	*96.0*			*75.0-131*		*02/02/2019 18:31*	WG1231708
(S) Toluene-d8	*94.7*			*75.0-131*		*02/03/2019 18:29*	WG1231857
(S) Dibromofluoromethane	*85.1*			*65.0-129*		*02/02/2019 18:31*	WG1231708
(S) Dibromofluoromethane	*132*	J1		*65.0-129*		*02/03/2019 18:29*	WG1231857
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*02/02/2019 18:31*	WG1231708
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*02/03/2019 18:29*	WG1231857

Sample Narrative:

L1065738-15 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-15 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

JC 3/18/19

MW-163-55

Collected date/time: 01/29/19 11:07

SAMPLE RESULTS - 16

L1065738

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.4		1	02/01/2019 13:11	WG1231192

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	1.36 J		0.336	0.613	22.4	02/03/2019 18:47	WG1231857
Acrylonitrile	U		0.00233	0.0153	1.12	02/02/2019 18:52	WG1231708
Benzene	0.000680 J	J	0.000490	0.00123	1.12	02/02/2019 18:52	WG1231708
Bromobenzene	U		0.00129	0.0153	1.12	02/02/2019 18:52	WG1231708
Bromodichloromethane	U		0.000965	0.00306	1.12	02/02/2019 18:52	WG1231708
Bromochloromethane	U		0.00138	0.00613	1.12	02/02/2019 18:52	WG1231708
Bromoform	U		0.00733	0.0306	1.12	02/02/2019 18:52	WG1231708
Bromomethane	U		0.00453	0.0153	1.12	02/02/2019 18:52	WG1231708
n-Butylbenzene	U		0.00471	0.0153	1.12	02/02/2019 18:52	WG1231708
sec-Butylbenzene	U		0.00310	0.0153	1.12	02/02/2019 18:52	WG1231708
tert-Butylbenzene	U		0.00190	0.00613	1.12	02/02/2019 18:52	WG1231708
Carbon disulfide	U UJ	J0	0.00498	0.0153	1.12	02/02/2019 18:52	WG1231708
Carbon tetrachloride	U		0.00132	0.00613	1.12	02/02/2019 18:52	WG1231708
Chlorobenzene	U		0.000703	0.00306	1.12	02/02/2019 18:52	WG1231708
Chlorodibromomethane	U		0.000552	0.00306	1.12	02/02/2019 18:52	WG1231708
Chloroethane	U		0.00132	0.00613	1.12	02/02/2019 18:52	WG1231708
Chloroform	U		0.000509	0.00306	1.12	02/02/2019 18:52	WG1231708
Chloromethane	U		0.00171	0.0153	1.12	02/02/2019 18:52	WG1231708
2-Chlorotoluene	U		0.00113	0.00306	1.12	02/02/2019 18:52	WG1231708
4-Chlorotoluene	U		0.00138	0.00613	1.12	02/02/2019 18:52	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00625	0.0306	1.12	02/02/2019 18:52	WG1231708
1,2-Dibromoethane	U		0.000643	0.00306	1.12	02/02/2019 18:52	WG1231708
Dibromomethane	U		0.00123	0.00613	1.12	02/02/2019 18:52	WG1231708
1,2-Dichlorobenzene	U		0.00177	0.00613	1.12	02/02/2019 18:52	WG1231708
1,3-Dichlorobenzene	U		0.00208	0.00613	1.12	02/02/2019 18:52	WG1231708
1,4-Dichlorobenzene	U		0.00242	0.00613	1.12	02/02/2019 18:52	WG1231708
Dichlorodifluoromethane	U		0.00100	0.00306	1.12	02/02/2019 18:52	WG1231708
1,1-Dichloroethane	U		0.000705	0.00306	1.12	02/02/2019 18:52	WG1231708
1,2-Dichloroethane	U		0.000582	0.00306	1.12	02/02/2019 18:52	WG1231708
1,1-Dichloroethene	0.0286		0.000613	0.00306	1.12	02/02/2019 18:52	WG1231708
cis-1,2-Dichloroethene	6.47 J		0.0169	0.0613	22.4	02/03/2019 18:47	WG1231857
trans-1,2-Dichloroethene	0.0326		0.00175	0.00613	1.12	02/02/2019 18:52	WG1231708
1,2-Dichloropropane	U		0.0311	0.123	22.4	02/03/2019 18:47	WG1231857
1,1-Dichloropropene	U		0.000858	0.00306	1.12	02/02/2019 18:52	WG1231708
1,3-Dichloropropane	U		0.00214	0.00613	1.12	02/02/2019 18:52	WG1231708
cis-1,3-Dichloropropene	U		0.000831	0.00306	1.12	02/02/2019 18:52	WG1231708
trans-1,3-Dichloropropene	U		0.00187	0.00613	1.12	02/02/2019 18:52	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00172	0.00613	1.12	02/02/2019 18:52	WG1231708
2,2-Dichloropropane	U		0.000972	0.00306	1.12	02/02/2019 18:52	WG1231708
Di-isopropyl ether	U		0.000429	0.00123	1.12	02/02/2019 18:52	WG1231708
Ethylbenzene	U		0.000650	0.00306	1.12	02/02/2019 18:52	WG1231708
Hexachloro-1,3-butadiene	U		0.0155	0.0306	1.12	02/02/2019 18:52	WG1231708
2-Hexanone	U		0.0123	0.0306	1.12	02/02/2019 18:52	WG1231708
n-Hexane	U		0.00130	0.00613	1.12	02/02/2019 18:52	WG1231708
Iodomethane	U		0.00742	0.0153	1.12	02/02/2019 18:52	WG1231708
Isopropylbenzene	U		0.00106	0.00306	1.12	02/02/2019 18:52	WG1231708
p-Isopropyltoluene	U		0.00286	0.00613	1.12	02/02/2019 18:52	WG1231708
2-Butanone (MEK)	U		0.306	0.613	22.4	02/03/2019 18:47	WG1231857
Methylene Chloride	U		0.00814	0.0306	1.12	02/02/2019 18:52	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0306	1.12	02/02/2019 18:52	WG1231708

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000361	0.00123	1.12	02/02/2019 18:52	WG1231708
Naphthalene	U		0.00382	0.0153	1.12	02/02/2019 18:52	WG1231708
n-Propylbenzene	U		0.00144	0.00613	1.12	02/02/2019 18:52	WG1231708
Styrene	U		0.00335	0.0153	1.12	02/02/2019 18:52	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000613	0.00306	1.12	02/02/2019 18:52	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000478	0.00306	1.12	02/02/2019 18:52	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000827	0.00306	1.12	02/02/2019 18:52	WG1231708
Tetrachloroethene	1.66 J	J4	0.000858	0.00306	1.12	02/02/2019 18:52	WG1231708
Toluene	0.00286 J	J	0.00153	0.00613	1.12	02/02/2019 18:52	WG1231708
1,2,3-Trichlorobenzene	U		0.000766	0.00306	1.12	02/02/2019 18:52	WG1231708
1,2,4-Trichlorobenzene	U		0.00591	0.0153	1.12	02/02/2019 18:52	WG1231708
1,1,1-Trichloroethane	U		0.000337	0.00306	1.12	02/02/2019 18:52	WG1231708
1,1,2-Trichloroethane	U		0.00108	0.00306	1.12	02/02/2019 18:52	WG1231708
Trichloroethene	2.32		0.000490	0.00123	1.12	02/02/2019 18:52	WG1231708
Trichlorofluoromethane	U		0.000613	0.00306	1.12	02/02/2019 18:52	WG1231708
1,2,3-Trichloropropane	U		0.00625	0.0153	1.12	02/02/2019 18:52	WG1231708
1,2,4-Trimethylbenzene	U		0.00142	0.00613	1.12	02/02/2019 18:52	WG1231708
1,2,3-Trimethylbenzene	U		0.00141	0.00613	1.12	02/02/2019 18:52	WG1231708
1,3,5-Trimethylbenzene	U		0.00132	0.00613	1.12	02/02/2019 18:52	WG1231708
Vinyl acetate	U		0.00431	0.0153	1.12	02/02/2019 18:52	WG1231708
Vinyl chloride	0.00971		0.000837	0.00306	1.12	02/02/2019 18:52	WG1231708
Xylenes, Total	U		0.00585	0.00797	1.12	02/02/2019 18:52	WG1231708
(S) Toluene-d8	*101*			*75.0-131*		*02/02/2019 18:52*	WG1231708
(S) Toluene-d8	*95.0*			*75.0-131*		*02/03/2019 18:47*	WG1231857
(S) Dibromofluoromethane	*85.2*			*65.0-129*		*02/02/2019 18:52*	WG1231708
(S) Dibromofluoromethane	*132*	J1		*65.0-129*		*02/03/2019 18:47*	WG1231857
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*02/02/2019 18:52*	WG1231708
(S) 4-Bromofluorobenzene	*122*			*67.0-138*		*02/03/2019 18:47*	WG1231857

Sample Narrative:

L1065738-16 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-16 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

JC 3/18/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.3		1	02/01/2019 13:11	WG1231192

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.658	J	0.310	0.566	20	02/03/2019 19:06	WG1231857
Acrylonitrile	U		0.00215	0.0142	1	02/02/2019 19:12	WG1231708
Benzene	U		0.000453	0.00113	1	02/02/2019 19:12	WG1231708
Bromobenzene	U		0.00119	0.0142	1	02/02/2019 19:12	WG1231708
Bromodichloromethane	U		0.000892	0.00283	1	02/02/2019 19:12	WG1231708
Bromochloromethane	U		0.00128	0.00566	1	02/02/2019 19:12	WG1231708
Bromoform	U		0.00677	0.0283	1	02/02/2019 19:12	WG1231708
Bromomethane	U		0.00419	0.0142	1	02/02/2019 19:12	WG1231708
n-Butylbenzene	U		0.00435	0.0142	1	02/02/2019 19:12	WG1231708
sec-Butylbenzene	U		0.00286	0.0142	1	02/02/2019 19:12	WG1231708
tert-Butylbenzene	U		0.00175	0.00566	1	02/02/2019 19:12	WG1231708
Carbon disulfide	U	UJ J0	0.00460	0.0142	1	02/02/2019 19:12	WG1231708
Carbon tetrachloride	U		0.00122	0.00566	1	02/02/2019 19:12	WG1231708
Chlorobenzene	U		0.000649	0.00283	1	02/02/2019 19:12	WG1231708
Chlorodibromomethane	U		0.000509	0.00283	1	02/02/2019 19:12	WG1231708
Chloroethane	U		0.00122	0.00566	1	02/02/2019 19:12	WG1231708
Chloroform	U		0.000470	0.00283	1	02/02/2019 19:12	WG1231708
Chloromethane	U		0.00157	0.0142	1	02/02/2019 19:12	WG1231708
2-Chlorotoluene	U		0.00104	0.00283	1	02/02/2019 19:12	WG1231708
4-Chlorotoluene	U		0.00128	0.00566	1	02/02/2019 19:12	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00577	0.0283	1	02/02/2019 19:12	WG1231708
1,2-Dibromoethane	U		0.000594	0.00283	1	02/02/2019 19:12	WG1231708
Dibromomethane	U		0.00113	0.00566	1	02/02/2019 19:12	WG1231708
1,2-Dichlorobenzene	U		0.00164	0.00566	1	02/02/2019 19:12	WG1231708
1,3-Dichlorobenzene	U		0.00192	0.00566	1	02/02/2019 19:12	WG1231708
1,4-Dichlorobenzene	U		0.00223	0.00566	1	02/02/2019 19:12	WG1231708
Dichlorodifluoromethane	U		0.000926	0.00283	1	02/02/2019 19:12	WG1231708
1,1-Dichloroethane	U		0.000651	0.00283	1	02/02/2019 19:12	WG1231708
1,2-Dichloroethane	U		0.000538	0.00283	1	02/02/2019 19:12	WG1231708
1,1-Dichloroethene	0.0226		0.000566	0.00283	1	02/02/2019 19:12	WG1231708
cis-1,2-Dichloroethene	4.64	J	0.0156	0.0566	20	02/03/2019 19:06	WG1231857
trans-1,2-Dichloroethene	0.0192		0.00162	0.00566	1	02/02/2019 19:12	WG1231708
1,2-Dichloropropane	U		0.0288	0.113	20	02/03/2019 19:06	WG1231857
1,1-Dichloropropene	U		0.000792	0.00283	1	02/02/2019 19:12	WG1231708
1,3-Dichloropropane	U		0.00198	0.00566	1	02/02/2019 19:12	WG1231708
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	02/02/2019 19:12	WG1231708
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	02/02/2019 19:12	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00158	0.00566	1	02/02/2019 19:12	WG1231708
2,2-Dichloropropane	U		0.000898	0.00283	1	02/02/2019 19:12	WG1231708
Di-isopropyl ether	U		0.000396	0.00113	1	02/02/2019 19:12	WG1231708
Ethylbenzene	U		0.000600	0.00283	1	02/02/2019 19:12	WG1231708
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	02/02/2019 19:12	WG1231708
2-Hexanone	U		0.0113	0.0283	1	02/02/2019 19:12	WG1231708
n-Hexane	U		0.00120	0.00566	1	02/02/2019 19:12	WG1231708
Iodomethane	U		0.00685	0.0142	1	02/02/2019 19:12	WG1231708
Isopropylbenzene	U		0.000977	0.00283	1	02/02/2019 19:12	WG1231708
p-Isopropyltoluene	U		0.00264	0.00566	1	02/02/2019 19:12	WG1231708
2-Butanone (MEK)	U		0.283	0.566	20	02/03/2019 19:06	WG1231857
Methylene Chloride	U		0.00752	0.0283	1	02/02/2019 19:12	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	02/02/2019 19:12	WG1231708

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	02/02/2019 19:12	WG1231708
Naphthalene	U		0.00353	0.0142	1	02/02/2019 19:12	WG1231708
n-Propylbenzene	U		0.00134	0.00566	1	02/02/2019 19:12	WG1231708
Styrene	U		0.00309	0.0142	1	02/02/2019 19:12	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	02/02/2019 19:12	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	02/02/2019 19:12	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	02/02/2019 19:12	WG1231708
Tetrachloroethene	6.69 J		0.0158	0.0566	20	02/03/2019 19:06	WG1231857
Toluene	0.00189	J	0.00142	0.00566	1	02/02/2019 19:12	WG1231708
1,2,3-Trichlorobenzene	U		0.000708	0.00283	1	02/02/2019 19:12	WG1231708
1,2,4-Trichlorobenzene	U		0.00546	0.0142	1	02/02/2019 19:12	WG1231708
1,1,1-Trichloroethane	U		0.000311	0.00283	1	02/02/2019 19:12	WG1231708
1,1,2-Trichloroethane	U		0.00100	0.00283	1	02/02/2019 19:12	WG1231708
Trichloroethene	3.59 J	~~J4~~	0.00906	0.0226	20	02/03/2019 19:06	WG1231857
Trichlorofluoromethane	U		0.000566	0.00283	1	02/02/2019 19:12	WG1231708
1,2,3-Trichloropropane	U		0.00577	0.0142	1	02/02/2019 19:12	WG1231708
1,2,4-Trimethylbenzene	0.00318 J	J	0.00131	0.00566	1	02/02/2019 19:12	WG1231708
1,2,3-Trimethylbenzene	0.00146 J	J	0.00130	0.00566	1	02/02/2019 19:12	WG1231708
1,3,5-Trimethylbenzene	0.00147 J	J	0.00122	0.00566	1	02/02/2019 19:12	WG1231708
Vinyl acetate	U		0.00398	0.0142	1	02/02/2019 19:12	WG1231708
Vinyl chloride	0.00599		0.000773	0.00283	1	02/02/2019 19:12	WG1231708
Xylenes, Total	U		0.00541	0.00736	1	02/02/2019 19:12	WG1231708
(S) Toluene-d8	*101*			*75.0-131*		*02/02/2019 19:12*	WG1231708
(S) Toluene-d8	*88.4*			*75.0-131*		*02/03/2019 19:06*	WG1231857
(S) Dibromofluoromethane	*84.1*			*65.0-129*		*02/02/2019 19:12*	WG1231708
(S) Dibromofluoromethane	*134*	J1		*65.0-129*		*02/03/2019 19:06*	WG1231857
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*02/02/2019 19:12*	WG1231708
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*02/03/2019 19:06*	WG1231857

Sample Narrative:

L1065738-17 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-17 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.9		1	02/01/2019 11:16	WG1231193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0178 J	J	0.0156	0.0284	1	02/03/2019 15:38	WG1231857
Acrylonitrile	U		0.00216	0.0142	1	02/02/2019 19:32	WG1231708
Benzene	U		0.000455	0.00114	1	02/02/2019 19:32	WG1231708
Bromobenzene	U		0.00119	0.0142	1	02/02/2019 19:32	WG1231708
Bromodichloromethane	U		0.000896	0.00284	1	02/02/2019 19:32	WG1231708
Bromochloromethane	U		0.00128	0.00569	1	02/02/2019 19:32	WG1231708
Bromoform	U		0.00680	0.0284	1	02/02/2019 19:32	WG1231708
Bromomethane	U		0.00421	0.0142	1	02/02/2019 19:32	WG1231708
n-Butylbenzene	U		0.00437	0.0142	1	02/02/2019 19:32	WG1231708
sec-Butylbenzene	U		0.00288	0.0142	1	02/02/2019 19:32	WG1231708
tert-Butylbenzene	U		0.00176	0.00569	1	02/02/2019 19:32	WG1231708
Carbon disulfide	U UJ	J0	0.00462	0.0142	1	02/02/2019 19:32	WG1231708
Carbon tetrachloride	U		0.00123	0.00569	1	02/02/2019 19:32	WG1231708
Chlorobenzene	U		0.000652	0.00284	1	02/02/2019 19:32	WG1231708
Chlorodibromomethane	U		0.000512	0.00284	1	02/02/2019 19:32	WG1231708
Chloroethane	U		0.00123	0.00569	1	02/02/2019 19:32	WG1231708
Chloroform	U		0.000472	0.00284	1	02/02/2019 19:32	WG1231708
Chloromethane	U		0.00158	0.0142	1	02/02/2019 19:32	WG1231708
2-Chlorotoluene	U		0.00105	0.00284	1	02/02/2019 19:32	WG1231708
4-Chlorotoluene	U		0.00128	0.00569	1	02/02/2019 19:32	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00580	0.0284	1	02/02/2019 19:32	WG1231708
1,2-Dibromoethane	U		0.000597	0.00284	1	02/02/2019 19:32	WG1231708
Dibromomethane	U		0.00114	0.00569	1	02/02/2019 19:32	WG1231708
1,2-Dichlorobenzene	U		0.00165	0.00569	1	02/02/2019 19:32	WG1231708
1,3-Dichlorobenzene	U		0.00193	0.00569	1	02/02/2019 19:32	WG1231708
1,4-Dichlorobenzene	U		0.00224	0.00569	1	02/02/2019 19:32	WG1231708
Dichlorodifluoromethane	U		0.000930	0.00284	1	02/02/2019 19:32	WG1231708
1,1-Dichloroethane	U		0.000654	0.00284	1	02/02/2019 19:32	WG1231708
1,2-Dichloroethane	U		0.000540	0.00284	1	02/02/2019 19:32	WG1231708
1,1-Dichloroethene	0.00410		0.000569	0.00284	1	02/02/2019 19:32	WG1231708
cis-1,2-Dichloroethene	0.0732		0.000785	0.00284	1	02/03/2019 15:38	WG1231857
trans-1,2-Dichloroethene	0.00306 J	J	0.00163	0.00569	1	02/02/2019 19:32	WG1231708
1,2-Dichloropropane	U		0.00144	0.00569	1	02/03/2019 15:38	WG1231857
1,1-Dichloropropene	U		0.000796	0.00284	1	02/02/2019 19:32	WG1231708
1,3-Dichloropropane	U		0.00199	0.00569	1	02/02/2019 19:32	WG1231708
cis-1,3-Dichloropropene	U		0.000771	0.00284	1	02/02/2019 19:32	WG1231708
trans-1,3-Dichloropropene	U		0.00174	0.00569	1	02/02/2019 19:32	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00159	0.00569	1	02/02/2019 19:32	WG1231708
2,2-Dichloropropane	U		0.000902	0.00284	1	02/02/2019 19:32	WG1231708
Di-isopropyl ether	U		0.000398	0.00114	1	02/02/2019 19:32	WG1231708
Ethylbenzene	U		0.000603	0.00284	1	02/02/2019 19:32	WG1231708
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	02/02/2019 19:32	WG1231708
2-Hexanone	U		0.0114	0.0284	1	02/02/2019 19:32	WG1231708
n-Hexane	U		0.00121	0.00569	1	02/02/2019 19:32	WG1231708
Iodomethane	U		0.00688	0.0142	1	02/02/2019 19:32	WG1231708
Isopropylbenzene	U		0.000981	0.00284	1	02/02/2019 19:32	WG1231708
p-Isopropyltoluene	U		0.00265	0.00569	1	02/02/2019 19:32	WG1231708
2-Butanone (MEK)	0.0218 J	J	0.0142	0.0284	1	02/03/2019 15:38	WG1231857
Methylene Chloride	U		0.00755	0.0284	1	02/02/2019 19:32	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0284	1	02/02/2019 19:32	WG1231708

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000335	0.00114	1	02/02/2019 19:32	WG1231708
Naphthalene	U		0.00355	0.0142	1	02/02/2019 19:32	WG1231708
n-Propylbenzene	U		0.00134	0.00569	1	02/02/2019 19:32	WG1231708
Styrene	U		0.00310	0.0142	1	02/02/2019 19:32	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000569	0.00284	1	02/02/2019 19:32	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000443	0.00284	1	02/02/2019 19:32	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000768	0.00284	1	02/02/2019 19:32	WG1231708
Tetrachloroethene	0.0191		0.000796	0.00284	1	02/03/2019 15:38	WG1231857
Toluene	U		0.00142	0.00569	1	02/02/2019 19:32	WG1231708
1,2,3-Trichlorobenzene	U		0.000711	0.00284	1	02/02/2019 19:32	WG1231708
1,2,4-Trichlorobenzene	U		0.00548	0.0142	1	02/02/2019 19:32	WG1231708
1,1,1-Trichloroethane	U		0.000313	0.00284	1	02/02/2019 19:32	WG1231708
1,1,2-Trichloroethane	U		0.00100	0.00284	1	02/02/2019 19:32	WG1231708
Trichloroethene	0.0388	~~J4~~	0.000455	0.00114	1	02/03/2019 15:38	WG1231857
Trichlorofluoromethane	U		0.000569	0.00284	1	02/02/2019 19:32	WG1231708
1,2,3-Trichloropropane	U		0.00580	0.0142	1	02/02/2019 19:32	WG1231708
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	02/02/2019 19:32	WG1231708
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	02/02/2019 19:32	WG1231708
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	02/02/2019 19:32	WG1231708
Vinyl acetate	U		0.00400	0.0142	1	02/02/2019 19:32	WG1231708
Vinyl chloride	U		0.000777	0.00284	1	02/02/2019 19:32	WG1231708
Xylenes, Total	U		0.00544	0.00739	1	02/02/2019 19:32	WG1231708
(S) Toluene-d8	*113*			*75.0-131*		*02/02/2019 19:32*	WG1231708
(S) Toluene-d8	*91.6*			*75.0-131*		*02/03/2019 15:38*	WG1231857
(S) Dibromofluoromethane	*83.5*			*65.0-129*		*02/02/2019 19:32*	WG1231708
(S) Dibromofluoromethane	*121*			*65.0-129*		*02/03/2019 15:38*	WG1231857
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*02/02/2019 19:32*	WG1231708
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*02/03/2019 15:38*	WG1231857

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MW-163-85

Collected date/time: 01/29/19 11:57

SAMPLE RESULTS - 19

L1065738

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.5		1	02/01/2019 11:16	WG1231193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0289	J	0.0162	0.0296	1	02/03/2019 15:57	WG1231857
Acrylonitrile	U		0.00225	0.0148	1	02/02/2019 19:53	WG1231708
Benzene	U		0.000473	0.00118	1	02/02/2019 19:53	WG1231708
Bromobenzene	U		0.00124	0.0148	1	02/02/2019 19:53	WG1231708
Bromodichloromethane	U		0.000933	0.00296	1	02/02/2019 19:53	WG1231708
Bromochloromethane	U		0.00134	0.00592	1	02/02/2019 19:53	WG1231708
Bromoform	U		0.00708	0.0296	1	02/02/2019 19:53	WG1231708
Bromomethane	U		0.00438	0.0148	1	02/02/2019 19:53	WG1231708
n-Butylbenzene	U		0.00454	0.0148	1	02/02/2019 19:53	WG1231708
sec-Butylbenzene	U		0.00299	0.0148	1	02/02/2019 19:53	WG1231708
tert-Butylbenzene	U		0.00183	0.00592	1	02/02/2019 19:53	WG1231708
Carbon disulfide	U UJ	J0	0.00481	0.0148	1	02/02/2019 19:53	WG1231708
Carbon tetrachloride	U		0.00128	0.00592	1	02/02/2019 19:53	WG1231708
Chlorobenzene	U		0.000678	0.00296	1	02/02/2019 19:53	WG1231708
Chlorodibromomethane	U		0.000533	0.00296	1	02/02/2019 19:53	WG1231708
Chloroethane	U		0.00128	0.00592	1	02/02/2019 19:53	WG1231708
Chloroform	U		0.000491	0.00296	1	02/02/2019 19:53	WG1231708
Chloromethane	U		0.00165	0.0148	1	02/02/2019 19:53	WG1231708
2-Chlorotoluene	U		0.00109	0.00296	1	02/02/2019 19:53	WG1231708
4-Chlorotoluene	U		0.00134	0.00592	1	02/02/2019 19:53	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00604	0.0296	1	02/02/2019 19:53	WG1231708
1,2-Dibromoethane	U		0.000621	0.00296	1	02/02/2019 19:53	WG1231708
Dibromomethane	U		0.00118	0.00592	1	02/02/2019 19:53	WG1231708
1,2-Dichlorobenzene	U		0.00172	0.00592	1	02/02/2019 19:53	WG1231708
1,3-Dichlorobenzene	U		0.00201	0.00592	1	02/02/2019 19:53	WG1231708
1,4-Dichlorobenzene	U		0.00233	0.00592	1	02/02/2019 19:53	WG1231708
Dichlorodifluoromethane	U		0.000968	0.00296	1	02/02/2019 19:53	WG1231708
1,1-Dichloroethane	U		0.000681	0.00296	1	02/02/2019 19:53	WG1231708
1,2-Dichloroethane	U		0.000562	0.00296	1	02/02/2019 19:53	WG1231708
1,1-Dichloroethene	U		0.000592	0.00296	1	02/02/2019 19:53	WG1231708
cis-1,2-Dichloroethene	0.000916 J	J	0.000817	0.00296	1	02/03/2019 15:57	WG1231857
trans-1,2-Dichloroethene	U		0.00169	0.00592	1	02/02/2019 19:53	WG1231708
1,2-Dichloropropane	U		0.00150	0.00592	1	02/03/2019 15:57	WG1231857
1,1-Dichloropropene	U		0.000828	0.00296	1	02/02/2019 19:53	WG1231708
1,3-Dichloropropane	U		0.00207	0.00592	1	02/02/2019 19:53	WG1231708
cis-1,3-Dichloropropene	U		0.000802	0.00296	1	02/02/2019 19:53	WG1231708
trans-1,3-Dichloropropene	U		0.00181	0.00592	1	02/02/2019 19:53	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00166	0.00592	1	02/02/2019 19:53	WG1231708
2,2-Dichloropropane	U		0.000939	0.00296	1	02/02/2019 19:53	WG1231708
Di-isopropyl ether	U		0.000414	0.00118	1	02/02/2019 19:53	WG1231708
Ethylbenzene	U		0.000627	0.00296	1	02/02/2019 19:53	WG1231708
Hexachloro-1,3-butadiene	U		0.0150	0.0296	1	02/02/2019 19:53	WG1231708
2-Hexanone	U		0.0118	0.0296	1	02/02/2019 19:53	WG1231708
n-Hexane	U		0.00125	0.00592	1	02/02/2019 19:53	WG1231708
Iodomethane	U		0.00716	0.0148	1	02/02/2019 19:53	WG1231708
Isopropylbenzene	U		0.00102	0.00296	1	02/02/2019 19:53	WG1231708
p-Isopropyltoluene	U		0.00276	0.00592	1	02/02/2019 19:53	WG1231708
2-Butanone (MEK)	0.0227 J	J	0.0148	0.0296	1	02/03/2019 15:57	WG1231857
Methylene Chloride	U		0.00786	0.0296	1	02/02/2019 19:53	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0296	1	02/02/2019 19:53	WG1231708

JC 3/18/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000349	0.00118	1	02/02/2019 19:53	WG1231708
Naphthalene	U		0.00369	0.0148	1	02/02/2019 19:53	WG1231708
n-Propylbenzene	U		0.00140	0.00592	1	02/02/2019 19:53	WG1231708
Styrene	U		0.00323	0.0148	1	02/02/2019 19:53	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000592	0.00296	1	02/02/2019 19:53	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000462	0.00296	1	02/02/2019 19:53	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000799	0.00296	1	02/02/2019 19:53	WG1231708
Tetrachloroethene	0.00202 J	J	0.000828	0.00296	1	02/03/2019 15:57	WG1231857
Toluene	U		0.00148	0.00592	1	02/02/2019 19:53	WG1231708
1,2,3-Trichlorobenzene	U		0.000740	0.00296	1	02/02/2019 19:53	WG1231708
1,2,4-Trichlorobenzene	U		0.00570	0.0148	1	02/02/2019 19:53	WG1231708
1,1,1-Trichloroethane	U		0.000325	0.00296	1	02/02/2019 19:53	WG1231708
1,1,2-Trichloroethane	U		0.00105	0.00296	1	02/02/2019 19:53	WG1231708
Trichloroethene	U	~~J4~~	0.000473	0.00118	1	02/03/2019 15:57	WG1231857
Trichlorofluoromethane	U		0.000592	0.00296	1	02/02/2019 19:53	WG1231708
1,2,3-Trichloropropane	U		0.00604	0.0148	1	02/02/2019 19:53	WG1231708
1,2,4-Trimethylbenzene	U		0.00137	0.00592	1	02/02/2019 19:53	WG1231708
1,2,3-Trimethylbenzene	U		0.00136	0.00592	1	02/02/2019 19:53	WG1231708
1,3,5-Trimethylbenzene	U		0.00128	0.00592	1	02/02/2019 19:53	WG1231708
Vinyl acetate	U		0.00417	0.0148	1	02/02/2019 19:53	WG1231708
Vinyl chloride	U		0.000808	0.00296	1	02/02/2019 19:53	WG1231708
Xylenes, Total	U		0.00566	0.00769	1	02/02/2019 19:53	WG1231708
(S) Toluene-d8	*111*			*75.0-131*		*02/02/2019 19:53*	WG1231708
(S) Toluene-d8	*81.6*			*75.0-131*		*02/03/2019 15:57*	WG1231857
(S) Dibromofluoromethane	*82.7*			*65.0-129*		*02/02/2019 19:53*	WG1231708
(S) Dibromofluoromethane	*116*			*65.0-129*		*02/03/2019 15:57*	WG1231857
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*02/02/2019 19:53*	WG1231708
(S) 4-Bromofluorobenzene	*116*			*67.0-138*		*02/03/2019 15:57*	WG1231857

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.2		1	02/01/2019 11:16	WG1231193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0249	J	J	0.0149	0.0271	1	02/03/2019 16:16	WG1231857
Acrylonitrile	U			0.00206	0.0136	1	02/02/2019 20:13	WG1231708
Benzene	U			0.000434	0.00108	1	02/02/2019 20:13	WG1231708
Bromobenzene	U			0.00114	0.0136	1	02/02/2019 20:13	WG1231708
Bromodichloromethane	U			0.000855	0.00271	1	02/02/2019 20:13	WG1231708
Bromochloromethane	U			0.00123	0.00542	1	02/02/2019 20:13	WG1231708
Bromoform	U			0.00648	0.0271	1	02/02/2019 20:13	WG1231708
Bromomethane	U			0.00401	0.0136	1	02/02/2019 20:13	WG1231708
n-Butylbenzene	U			0.00416	0.0136	1	02/02/2019 20:13	WG1231708
sec-Butylbenzene	U			0.00274	0.0136	1	02/02/2019 20:13	WG1231708
tert-Butylbenzene	U			0.00168	0.00542	1	02/02/2019 20:13	WG1231708
Carbon disulfide	U	UJ	J0	0.00440	0.0136	1	02/02/2019 20:13	WG1231708
Carbon tetrachloride	U			0.00117	0.00542	1	02/02/2019 20:13	WG1231708
Chlorobenzene	U			0.000621	0.00271	1	02/02/2019 20:13	WG1231708
Chlorodibromomethane	U			0.000488	0.00271	1	02/02/2019 20:13	WG1231708
Chloroethane	U			0.00117	0.00542	1	02/02/2019 20:13	WG1231708
Chloroform	U			0.000450	0.00271	1	02/02/2019 20:13	WG1231708
Chloromethane	U			0.00151	0.0136	1	02/02/2019 20:13	WG1231708
2-Chlorotoluene	U			0.000998	0.00271	1	02/02/2019 20:13	WG1231708
4-Chlorotoluene	U			0.00123	0.00542	1	02/02/2019 20:13	WG1231708
1,2-Dibromo-3-Chloropropane	U			0.00553	0.0271	1	02/02/2019 20:13	WG1231708
1,2-Dibromoethane	U			0.000569	0.00271	1	02/02/2019 20:13	WG1231708
Dibromomethane	U			0.00108	0.00542	1	02/02/2019 20:13	WG1231708
1,2-Dichlorobenzene	U			0.00157	0.00542	1	02/02/2019 20:13	WG1231708
1,3-Dichlorobenzene	U			0.00184	0.00542	1	02/02/2019 20:13	WG1231708
1,4-Dichlorobenzene	U			0.00214	0.00542	1	02/02/2019 20:13	WG1231708
Dichlorodifluoromethane	U			0.000887	0.00271	1	02/02/2019 20:13	WG1231708
1,1-Dichloroethane	U			0.000624	0.00271	1	02/02/2019 20:13	WG1231708
1,2-Dichloroethane	U			0.000515	0.00271	1	02/02/2019 20:13	WG1231708
1,1-Dichloroethene	0.00490			0.000542	0.00271	1	02/02/2019 20:13	WG1231708
cis-1,2-Dichloroethene	0.136			0.000748	0.00271	1	02/02/2019 20:13	WG1231708
trans-1,2-Dichloroethene	0.00614			0.00155	0.00542	1	02/02/2019 20:13	WG1231708
1,2-Dichloropropane	U			0.00138	0.00542	1	02/03/2019 16:16	WG1231857
1,1-Dichloropropene	U			0.000759	0.00271	1	02/02/2019 20:13	WG1231708
1,3-Dichloropropane	U			0.00190	0.00542	1	02/02/2019 20:13	WG1231708
cis-1,3-Dichloropropene	U			0.000735	0.00271	1	02/02/2019 20:13	WG1231708
trans-1,3-Dichloropropene	U			0.00166	0.00542	1	02/02/2019 20:13	WG1231708
trans-1,4-Dichloro-2-butene	U			0.00152	0.00542	1	02/02/2019 20:13	WG1231708
2,2-Dichloropropane	U			0.000860	0.00271	1	02/02/2019 20:13	WG1231708
Di-isopropyl ether	U			0.000380	0.00108	1	02/02/2019 20:13	WG1231708
Ethylbenzene	U			0.000575	0.00271	1	02/02/2019 20:13	WG1231708
Hexachloro-1,3-butadiene	U			0.0138	0.0271	1	02/02/2019 20:13	WG1231708
2-Hexanone	U			0.0108	0.0271	1	02/02/2019 20:13	WG1231708
n-Hexane	U			0.00115	0.00542	1	02/02/2019 20:13	WG1231708
Iodomethane	U			0.00656	0.0136	1	02/02/2019 20:13	WG1231708
Isopropylbenzene	U			0.000936	0.00271	1	02/02/2019 20:13	WG1231708
p-Isopropyltoluene	U			0.00253	0.00542	1	02/02/2019 20:13	WG1231708
2-Butanone (MEK)	0.0197	J	J	0.0136	0.0271	1	02/03/2019 16:16	WG1231857
Methylene Chloride	U			0.00720	0.0271	1	02/02/2019 20:13	WG1231708
4-Methyl-2-pentanone (MIBK)	U			0.0108	0.0271	1	02/02/2019 20:13	WG1231708

JC 3/18/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00108	1	02/02/2019 20:13	WG1231708
Naphthalene	U		0.00338	0.0136	1	02/02/2019 20:13	WG1231708
n-Propylbenzene	U		0.00128	0.00542	1	02/02/2019 20:13	WG1231708
Styrene	U		0.00296	0.0136	1	02/02/2019 20:13	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000542	0.00271	1	02/02/2019 20:13	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	02/02/2019 20:13	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000732	0.00271	1	02/02/2019 20:13	WG1231708
Tetrachloroethene	0.0806 J	J4	0.000759	0.00271	1	02/02/2019 20:13	WG1231708
Toluene	U		0.00136	0.00542	1	02/02/2019 20:13	WG1231708
1,2,3-Trichlorobenzene	U		0.000678	0.00271	1	02/02/2019 20:13	WG1231708
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	02/02/2019 20:13	WG1231708
1,1,1-Trichloroethane	U		0.000298	0.00271	1	02/02/2019 20:13	WG1231708
1,1,2-Trichloroethane	U		0.000958	0.00271	1	02/02/2019 20:13	WG1231708
Trichloroethene	0.0834		0.000434	0.00108	1	02/02/2019 20:13	WG1231708
Trichlorofluoromethane	U		0.000542	0.00271	1	02/02/2019 20:13	WG1231708
1,2,3-Trichloropropane	U		0.00553	0.0136	1	02/02/2019 20:13	WG1231708
1,2,4-Trimethylbenzene	U		0.00126	0.00542	1	02/02/2019 20:13	WG1231708
1,2,3-Trimethylbenzene	U		0.00125	0.00542	1	02/02/2019 20:13	WG1231708
1,3,5-Trimethylbenzene	U		0.00117	0.00542	1	02/02/2019 20:13	WG1231708
Vinyl acetate	U		0.00382	0.0136	1	02/02/2019 20:13	WG1231708
Vinyl chloride	U		0.000741	0.00271	1	02/02/2019 20:13	WG1231708
Xylenes, Total	U		0.00518	0.00705	1	02/02/2019 20:13	WG1231708
(S) Toluene-d8	*112*			*75.0-131*		*02/02/2019 20:13*	WG1231708
(S) Toluene-d8	*83.0*			*75.0-131*		*02/03/2019 16:16*	WG1231857
(S) Dibromofluoromethane	*85.8*			*65.0-129*		*02/02/2019 20:13*	WG1231708
(S) Dibromofluoromethane	*113*			*65.0-129*		*02/03/2019 16:16*	WG1231857
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*02/02/2019 20:13*	WG1231708
(S) 4-Bromofluorobenzene	*116*			*67.0-138*		*02/03/2019 16:16*	WG1231857

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/01/2019 17:59	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 17:59	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 17:59	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 17:59	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 17:59	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 17:59	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 17:59	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 17:59	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 17:59	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 17:59	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 17:59	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 17:59	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 17:59	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 17:59	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 17:59	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 17:59	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 17:59	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 17:59	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 17:59	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 17:59	WG1231554
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.325	2.50	1	02/01/2019 17:59	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 17:59	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 17:59	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 17:59	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 17:59	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 17:59	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 17:59	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 17:59	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 17:59	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 17:59	WG1231554
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/01/2019 17:59	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 17:59	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 17:59	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 17:59	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 17:59	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 17:59	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 17:59	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 17:59	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 17:59	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 17:59	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 17:59	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 17:59	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 17:59	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 17:59	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 17:59	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 17:59	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 17:59	WG1231554
2-Butanone (MEK)	U UJ	J0	1.28	5.00	1	02/01/2019 17:59	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 17:59	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 17:59	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 17:59	WG1231554
Naphthalene	U UJ	J0	0.174	2.50	1	02/01/2019 17:59	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 17:59	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 17:59	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 17:59	WG1231554
1,1,2,2-Tetrachloroethane	U UJ	J0	0.130	0.500	1	02/01/2019 17:59	WG1231554

JC 3/18/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 17:59	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 17:59	WG1231554
Toluene	U		0.412	0.500	1	02/01/2019 17:59	WG1231554
1,2,3-Trichlorobenzene	U UJ	J0	0.164	0.500	1	02/01/2019 17:59	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 17:59	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 17:59	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 17:59	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 17:59	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 17:59	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 17:59	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 17:59	WG1231554
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.0739	0.500	1	02/01/2019 17:59	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 17:59	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 17:59	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/01/2019 17:59	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 17:59	WG1231554
(S) Toluene-d8	*106*			*80.0-120*		*02/01/2019 17:59*	WG1231554
(S) Dibromofluoromethane	*100*			*75.0-120*		*02/01/2019 17:59*	WG1231554
(S) 4-Bromofluorobenzene	*82.0*			*77.0-126*		*02/01/2019 17:59*	WG1231554

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.4		1	02/01/2019 11:16	WG1231193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0378			0.0162	0.0296	1	02/03/2019 12:08	WG1231920	
Acrylonitrile	U			0.00225	0.0148	1	02/02/2019 18:02	WG1231732	
Benzene	0.000633	J	J	0.000474	0.00119	1	02/02/2019 18:02	WG1231732	
Bromobenzene	U			0.00124	0.0148	1	02/02/2019 18:02	WG1231732	
Bromodichloromethane	U			0.000934	0.00296	1	02/02/2019 18:02	WG1231732	
Bromochloromethane	U			0.00134	0.00593	1	02/02/2019 18:02	WG1231732	
Bromoform	U			0.00709	0.0296	1	02/02/2019 18:02	WG1231732	
Bromomethane	U			0.00439	0.0148	1	02/02/2019 18:02	WG1231732	
n-Butylbenzene	U			0.00455	0.0148	1	02/02/2019 18:02	WG1231732	
sec-Butylbenzene	U			0.00300	0.0148	1	02/02/2019 18:02	WG1231732	
tert-Butylbenzene	U			0.00184	0.00593	1	02/02/2019 18:02	WG1231732	
Carbon disulfide	U			0.00481	0.0148	1	02/02/2019 18:02	WG1231732	
Carbon tetrachloride	U			0.00128	0.00593	1	02/02/2019 18:02	WG1231732	
Chlorobenzene	U			0.000679	0.00296	1	02/02/2019 18:02	WG1231732	
Chlorodibromomethane	U			0.000533	0.00296	1	02/02/2019 18:02	WG1231732	
Chloroethane	U			0.00128	0.00593	1	02/02/2019 18:02	WG1231732	
Chloroform	U			0.000492	0.00296	1	02/02/2019 18:02	WG1231732	
Chloromethane	U			0.00165	0.0148	1	02/02/2019 18:02	WG1231732	
2-Chlorotoluene	U			0.00109	0.00296	1	02/02/2019 18:02	WG1231732	
4-Chlorotoluene	U			0.00134	0.00593	1	02/02/2019 18:02	WG1231732	
1,2-Dibromo-3-Chloropropane	U			0.00605	0.0296	1	02/02/2019 18:02	WG1231732	
1,2-Dibromoethane	U			0.000622	0.00296	1	02/02/2019 18:02	WG1231732	
Dibromomethane	U			0.00119	0.00593	1	02/02/2019 18:02	WG1231732	
1,2-Dichlorobenzene	U			0.00172	0.00593	1	02/02/2019 18:02	WG1231732	
1,3-Dichlorobenzene	U			0.00202	0.00593	1	02/02/2019 18:02	WG1231732	
1,4-Dichlorobenzene	U			0.00234	0.00593	1	02/02/2019 18:02	WG1231732	
Dichlorodifluoromethane	U			0.000970	0.00296	1	02/02/2019 18:02	WG1231732	
1,1-Dichloroethane	U			0.000682	0.00296	1	02/02/2019 18:02	WG1231732	
1,2-Dichloroethane	U			0.000563	0.00296	1	02/02/2019 18:02	WG1231732	
1,1-Dichloroethene	0.00898			0.000593	0.00296	1	02/02/2019 18:02	WG1231732	
cis-1,2-Dichloroethene	0.0255			0.000818	0.00296	1	02/02/2019 18:02	WG1231732	
trans-1,2-Dichloroethene	0.00458	J	J	0.00170	0.00593	1	02/02/2019 18:02	WG1231732	
1,2-Dichloropropane	U			0.00151	0.00593	1	02/02/2019 18:02	WG1231732	
1,1-Dichloropropene	U			0.000830	0.00296	1	02/02/2019 18:02	WG1231732	
1,3-Dichloropropane	U			0.00207	0.00593	1	02/02/2019 18:02	WG1231732	
cis-1,3-Dichloropropene	U			0.000804	0.00296	1	02/02/2019 18:02	WG1231732	
trans-1,3-Dichloropropene	U			0.00181	0.00593	1	02/02/2019 18:02	WG1231732	
trans-1,4-Dichloro-2-butene	U			0.00166	0.00593	1	02/02/2019 18:02	WG1231732	
2,2-Dichloropropane	U			0.000940	0.00296	1	02/02/2019 18:02	WG1231732	
Di-isopropyl ether	U			0.000415	0.00119	1	02/02/2019 18:02	WG1231732	
Ethylbenzene	U			0.000628	0.00296	1	02/02/2019 18:02	WG1231732	
Hexachloro-1,3-butadiene	U	UJ	J0	0.0151	0.0296	1	02/02/2019 18:02	WG1231732	
2-Hexanone	U			0.0119	0.0296	1	02/02/2019 18:02	WG1231732	
n-Hexane	U			0.00126	0.00593	1	02/02/2019 18:02	WG1231732	
Iodomethane	U			0.00717	0.0148	1	02/02/2019 18:02	WG1231732	
Isopropylbenzene	U			0.00102	0.00296	1	02/02/2019 18:02	WG1231732	
p-Isopropyltoluene	U			0.00276	0.00593	1	02/02/2019 18:02	WG1231732	
2-Butanone (MEK)	0.0289	J	J	0.0148	0.0296	1	02/02/2019 18:02	WG1231732	
Methylene Chloride	U			0.00787	0.0296	1	02/02/2019 18:02	WG1231732	JC 3/18/19
4-Methyl-2-pentanone (MIBK)	U			0.0119	0.0296	1	02/02/2019 18:02	WG1231732	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000350	0.00119	1	02/02/2019 18:02	WG1231732
Naphthalene	U	UJ	J0	0.00370	0.0148	1	02/02/2019 18:02	WG1231732
n-Propylbenzene	U			0.00140	0.00593	1	02/02/2019 18:02	WG1231732
Styrene	U			0.00324	0.0148	1	02/02/2019 18:02	WG1231732
1,1,1,2-Tetrachloroethane	U			0.000593	0.00296	1	02/02/2019 18:02	WG1231732
1,1,2,2-Tetrachloroethane	U			0.000462	0.00296	1	02/02/2019 18:02	WG1231732
1,1,2-Trichlorotrifluoroethane	U			0.000800	0.00296	1	02/02/2019 18:02	WG1231732
Tetrachloroethene	2.05			0.000830	0.00296	1	02/02/2019 18:02	WG1231732
Toluene	0.00264	J	J	0.00148	0.00593	1	02/02/2019 18:02	WG1231732
1,2,3-Trichlorobenzene	U			0.000741	0.00296	1	02/03/2019 12:08	WG1231920
1,2,4-Trichlorobenzene	U	UJ	J0	0.00571	0.0148	1	02/02/2019 18:02	WG1231732
1,1,1-Trichloroethane	U			0.000326	0.00296	1	02/02/2019 18:02	WG1231732
1,1,2-Trichloroethane	U			0.00105	0.00296	1	02/02/2019 18:02	WG1231732
Trichloroethene	0.346		~~J4~~	0.000474	0.00119	1	02/03/2019 12:08	WG1231920
Trichlorofluoromethane	U			0.000593	0.00296	1	02/02/2019 18:02	WG1231732
1,2,3-Trichloropropane	U			0.00605	0.0148	1	02/02/2019 18:02	WG1231732
1,2,4-Trimethylbenzene	U			0.00138	0.00593	1	02/02/2019 18:02	WG1231732
1,2,3-Trimethylbenzene	U			0.00136	0.00593	1	02/02/2019 18:02	WG1231732
1,3,5-Trimethylbenzene	U			0.00128	0.00593	1	02/02/2019 18:02	WG1231732
Vinyl acetate	U			0.00417	0.0148	1	02/02/2019 18:02	WG1231732
Vinyl chloride	U			0.000810	0.00296	1	02/02/2019 18:02	WG1231732
Xylenes, Total	U			0.00567	0.00771	1	02/02/2019 18:02	WG1231732
(S) Toluene-d8	*104*				*75.0-131*		*02/02/2019 18:02*	WG1231732
(S) Toluene-d8	*96.7*				*75.0-131*		*02/03/2019 12:08*	WG1231920
(S) Dibromofluoromethane	*120*				*65.0-129*		*02/03/2019 12:08*	WG1231920
(S) 4-Bromofluorobenzene	*104*				*67.0-138*		*02/02/2019 18:02*	WG1231732
(S) 4-Bromofluorobenzene	*97.6*				*67.0-138*		*02/03/2019 12:08*	WG1231920
(S) 1,2-Dichloroethane-d4	*89.6*				*70.0-130*		*02/02/2019 18:02*	WG1231732

JC 3/18/19

MW-163-100
Collected date/time: 01/29/19 14:55

SAMPLE RESULTS - 23

L1065738

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	02/01/2019 11:16	WG1231193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U			0.0157	0.0287	1	02/03/2019 12:27	WG1231920	
Acrylonitrile	U			0.00218	0.0144	1	02/02/2019 18:22	WG1231732	
Benzene	0.000590	J	J	0.000459	0.00115	1	02/02/2019 18:22	WG1231732	
Bromobenzene	U			0.00121	0.0144	1	02/02/2019 18:22	WG1231732	
Bromodichloromethane	U			0.000905	0.00287	1	02/02/2019 18:22	WG1231732	
Bromochloromethane	U			0.00130	0.00574	1	02/02/2019 18:22	WG1231732	
Bromoform	U			0.00687	0.0287	1	02/02/2019 18:22	WG1231732	
Bromomethane	U			0.00425	0.0144	1	02/02/2019 18:22	WG1231732	
n-Butylbenzene	U			0.00441	0.0144	1	02/02/2019 18:22	WG1231732	
sec-Butylbenzene	U			0.00291	0.0144	1	02/02/2019 18:22	WG1231732	
tert-Butylbenzene	U			0.00178	0.00574	1	02/02/2019 18:22	WG1231732	
Carbon disulfide	U			0.00466	0.0144	1	02/02/2019 18:22	WG1231732	
Carbon tetrachloride	U			0.00124	0.00574	1	02/02/2019 18:22	WG1231732	
Chlorobenzene	U			0.000658	0.00287	1	02/02/2019 18:22	WG1231732	
Chlorodibromomethane	U			0.000517	0.00287	1	02/02/2019 18:22	WG1231732	
Chloroethane	U			0.00124	0.00574	1	02/02/2019 18:22	WG1231732	
Chloroform	U			0.000477	0.00287	1	02/02/2019 18:22	WG1231732	
Chloromethane	U			0.00160	0.0144	1	02/02/2019 18:22	WG1231732	
2-Chlorotoluene	U			0.00106	0.00287	1	02/02/2019 18:22	WG1231732	
4-Chlorotoluene	U			0.00130	0.00574	1	02/02/2019 18:22	WG1231732	
1,2-Dibromo-3-Chloropropane	U			0.00586	0.0287	1	02/02/2019 18:22	WG1231732	
1,2-Dibromoethane	U			0.000603	0.00287	1	02/02/2019 18:22	WG1231732	
Dibromomethane	U			0.00115	0.00574	1	02/02/2019 18:22	WG1231732	
1,2-Dichlorobenzene	U			0.00167	0.00574	1	02/02/2019 18:22	WG1231732	
1,3-Dichlorobenzene	U			0.00195	0.00574	1	02/02/2019 18:22	WG1231732	
1,4-Dichlorobenzene	U			0.00226	0.00574	1	02/02/2019 18:22	WG1231732	
Dichlorodifluoromethane	U			0.000939	0.00287	1	02/02/2019 18:22	WG1231732	
1,1-Dichloroethane	U			0.000660	0.00287	1	02/02/2019 18:22	WG1231732	
1,2-Dichloroethane	U			0.000546	0.00287	1	02/02/2019 18:22	WG1231732	
1,1-Dichloroethene	U			0.000574	0.00287	1	02/02/2019 18:22	WG1231732	
cis-1,2-Dichloroethene	0.00269	J	J	0.000792	0.00287	1	02/02/2019 18:22	WG1231732	
trans-1,2-Dichloroethene	U			0.00164	0.00574	1	02/02/2019 18:22	WG1231732	
1,2-Dichloropropane	U			0.00146	0.00574	1	02/02/2019 18:22	WG1231732	
1,1-Dichloropropene	U			0.000804	0.00287	1	02/02/2019 18:22	WG1231732	
1,3-Dichloropropane	U			0.00201	0.00574	1	02/02/2019 18:22	WG1231732	
cis-1,3-Dichloropropene	U			0.000779	0.00287	1	02/02/2019 18:22	WG1231732	
trans-1,3-Dichloropropene	U			0.00176	0.00574	1	02/02/2019 18:22	WG1231732	
trans-1,4-Dichloro-2-butene	U			0.00161	0.00574	1	02/02/2019 18:22	WG1231732	
2,2-Dichloropropane	U			0.000911	0.00287	1	02/02/2019 18:22	WG1231732	
Di-isopropyl ether	U			0.000402	0.00115	1	02/02/2019 18:22	WG1231732	
Ethylbenzene	U			0.000609	0.00287	1	02/02/2019 18:22	WG1231732	
Hexachloro-1,3-butadiene	U	UJ	J0	0.0146	0.0287	1	02/02/2019 18:22	WG1231732	
2-Hexanone	U			0.0115	0.0287	1	02/02/2019 18:22	WG1231732	
n-Hexane	U			0.00122	0.00574	1	02/02/2019 18:22	WG1231732	
Iodomethane	U			0.00695	0.0144	1	02/02/2019 18:22	WG1231732	JC 3/18/19
Isopropylbenzene	U			0.000991	0.00287	1	02/02/2019 18:22	WG1231732	
p-Isopropyltoluene	U			0.00268	0.00574	1	02/02/2019 18:22	WG1231732	
2-Butanone (MEK)	0.0199	J	J	0.0144	0.0287	1	02/02/2019 18:22	WG1231732	
Methylene Chloride	U			0.00763	0.0287	1	02/02/2019 18:22	WG1231732	
4-Methyl-2-pentanone (MIBK)	U			0.0115	0.0287	1	02/02/2019 18:22	WG1231732	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000339	0.00115	1	02/02/2019 18:22	WG1231732
Naphthalene	U	UJ J0	0.00358	0.0144	1	02/02/2019 18:22	WG1231732
n-Propylbenzene	U		0.00136	0.00574	1	02/02/2019 18:22	WG1231732
Styrene	U		0.00314	0.0144	1	02/02/2019 18:22	WG1231732
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	02/02/2019 18:22	WG1231732
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	02/02/2019 18:22	WG1231732
1,1,2-Trichlorotrifluoroethane	U		0.000775	0.00287	1	02/02/2019 18:22	WG1231732
Tetrachloroethene	0.0109		0.000804	0.00287	1	02/02/2019 18:22	WG1231732
Toluene	U		0.00144	0.00574	1	02/02/2019 18:22	WG1231732
1,2,3-Trichlorobenzene	U		0.000718	0.00287	1	02/03/2019 12:27	WG1231920
1,2,4-Trichlorobenzene	U	UJ J0	0.00554	0.0144	1	02/02/2019 18:22	WG1231732
1,1,1-Trichloroethane	U		0.000316	0.00287	1	02/02/2019 18:22	WG1231732
1,1,2-Trichloroethane	U		0.00101	0.00287	1	02/02/2019 18:22	WG1231732
Trichloroethene	0.00246	~~J4~~	0.000459	0.00115	1	02/03/2019 12:27	WG1231920
Trichlorofluoromethane	U		0.000574	0.00287	1	02/02/2019 18:22	WG1231732
1,2,3-Trichloropropane	U		0.00586	0.0144	1	02/02/2019 18:22	WG1231732
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	02/02/2019 18:22	WG1231732
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	02/02/2019 18:22	WG1231732
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	02/02/2019 18:22	WG1231732
Vinyl acetate	U		0.00404	0.0144	1	02/02/2019 18:22	WG1231732
Vinyl chloride	U		0.000784	0.00287	1	02/02/2019 18:22	WG1231732
Xylenes, Total	U		0.00549	0.00746	1	02/02/2019 18:22	WG1231732
(S) Toluene-d8	*105*			*75.0-131*		*02/02/2019 18:22*	WG1231732
(S) Toluene-d8	*93.2*			*75.0-131*		*02/03/2019 12:27*	WG1231920
(S) Dibromofluoromethane	*113*			*65.0-129*		*02/03/2019 12:27*	WG1231920
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*02/02/2019 18:22*	WG1231732
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*02/03/2019 12:27*	WG1231920
(S) 1,2-Dichloroethane-d4	*91.0*			*70.0-130*		*02/02/2019 18:22*	WG1231732

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	02/01/2019 11:16	WG1231193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0157 J	J	0.0144	0.0262	1	02/03/2019 12:46	WG1231920
Acrylonitrile	U		0.00199	0.0131	1	02/02/2019 18:42	WG1231732
Benzene	U		0.000420	0.00105	1	02/02/2019 18:42	WG1231732
Bromobenzene	U		0.00110	0.0131	1	02/02/2019 18:42	WG1231732
Bromodichloromethane	U		0.000827	0.00262	1	02/02/2019 18:42	WG1231732
Bromochloromethane	U		0.00119	0.00525	1	02/02/2019 18:42	WG1231732
Bromoform	U		0.00628	0.0262	1	02/02/2019 18:42	WG1231732
Bromomethane	U		0.00388	0.0131	1	02/02/2019 18:42	WG1231732
n-Butylbenzene	U		0.00403	0.0131	1	02/02/2019 18:42	WG1231732
sec-Butylbenzene	U		0.00266	0.0131	1	02/02/2019 18:42	WG1231732
tert-Butylbenzene	U		0.00163	0.00525	1	02/02/2019 18:42	WG1231732
Carbon disulfide	U		0.00426	0.0131	1	02/02/2019 18:42	WG1231732
Carbon tetrachloride	U		0.00113	0.00525	1	02/02/2019 18:42	WG1231732
Chlorobenzene	U		0.000602	0.00262	1	02/02/2019 18:42	WG1231732
Chlorodibromomethane	U		0.000472	0.00262	1	02/02/2019 18:42	WG1231732
Chloroethane	U		0.00113	0.00525	1	02/02/2019 18:42	WG1231732
Chloroform	U		0.000436	0.00262	1	02/02/2019 18:42	WG1231732
Chloromethane	U		0.00146	0.0131	1	02/02/2019 18:42	WG1231732
2-Chlorotoluene	U		0.000966	0.00262	1	02/02/2019 18:42	WG1231732
4-Chlorotoluene	U		0.00119	0.00525	1	02/02/2019 18:42	WG1231732
1,2-Dibromo-3-Chloropropane	U		0.00535	0.0262	1	02/02/2019 18:42	WG1231732
1,2-Dibromoethane	U		0.000551	0.00262	1	02/02/2019 18:42	WG1231732
Dibromomethane	U		0.00105	0.00525	1	02/02/2019 18:42	WG1231732
1,2-Dichlorobenzene	U		0.00152	0.00525	1	02/02/2019 18:42	WG1231732
1,3-Dichlorobenzene	U		0.00178	0.00525	1	02/02/2019 18:42	WG1231732
1,4-Dichlorobenzene	U		0.00207	0.00525	1	02/02/2019 18:42	WG1231732
Dichlorodifluoromethane	U		0.000859	0.00262	1	02/02/2019 18:42	WG1231732
1,1-Dichloroethane	U		0.000604	0.00262	1	02/02/2019 18:42	WG1231732
1,2-Dichloroethane	U		0.000499	0.00262	1	02/02/2019 18:42	WG1231732
1,1-Dichloroethene	U		0.000525	0.00262	1	02/02/2019 18:42	WG1231732
cis-1,2-Dichloroethene	0.0249		0.000724	0.00262	1	02/02/2019 18:42	WG1231732
trans-1,2-Dichloroethene	U		0.00150	0.00525	1	02/02/2019 18:42	WG1231732
1,2-Dichloropropane	U		0.00133	0.00525	1	02/02/2019 18:42	WG1231732
1,1-Dichloropropene	U		0.000735	0.00262	1	02/02/2019 18:42	WG1231732
1,3-Dichloropropane	U		0.00184	0.00525	1	02/02/2019 18:42	WG1231732
cis-1,3-Dichloropropene	U		0.000712	0.00262	1	02/02/2019 18:42	WG1231732
trans-1,3-Dichloropropene	U		0.00161	0.00525	1	02/02/2019 18:42	WG1231732
trans-1,4-Dichloro-2-butene	U		0.00147	0.00525	1	02/02/2019 18:42	WG1231732
2,2-Dichloropropane	U		0.000833	0.00262	1	02/02/2019 18:42	WG1231732
Di-isopropyl ether	U		0.000367	0.00105	1	02/02/2019 18:42	WG1231732
Ethylbenzene	U		0.000556	0.00262	1	02/02/2019 18:42	WG1231732
Hexachloro-1,3-butadiene	U UJ	J0	0.0133	0.0262	1	02/02/2019 18:42	WG1231732
2-Hexanone	U		0.0105	0.0262	1	02/02/2019 18:42	WG1231732
n-Hexane	U		0.00111	0.00525	1	02/02/2019 18:42	WG1231732
Iodomethane	U		0.00635	0.0131	1	02/02/2019 18:42	WG1231732
Isopropylbenzene	U		0.000906	0.00262	1	02/02/2019 18:42	WG1231732
p-Isopropyltoluene	U		0.00245	0.00525	1	02/02/2019 18:42	WG1231732
2-Butanone (MEK)	0.0183 J	J	0.0131	0.0262	1	02/02/2019 18:42	WG1231732
Methylene Chloride	U		0.00697	0.0262	1	02/02/2019 18:42	WG1231732
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0262	1	02/02/2019 18:42	WG1231732

JC 3/18/19

MW-163-105

Collected date/time: 01/29/19 15:00

SAMPLE RESULTS - 24

L1065738

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000310	0.00105	1	02/02/2019 18:42	WG1231732
Naphthalene	U	UJ	J0	0.00328	0.0131	1	02/02/2019 18:42	WG1231732
n-Propylbenzene	U			0.00124	0.00525	1	02/02/2019 18:42	WG1231732
Styrene	U			0.00287	0.0131	1	02/02/2019 18:42	WG1231732
1,1,1,2-Tetrachloroethane	U			0.000525	0.00262	1	02/02/2019 18:42	WG1231732
1,1,2,2-Tetrachloroethane	U			0.000409	0.00262	1	02/02/2019 18:42	WG1231732
1,1,2-Trichlorotrifluoroethane	U			0.000709	0.00262	1	02/02/2019 18:42	WG1231732
Tetrachloroethene	0.00124	J	J	0.000735	0.00262	1	02/02/2019 18:42	WG1231732
Toluene	U			0.00131	0.00525	1	02/02/2019 18:42	WG1231732
1,2,3-Trichlorobenzene	U			0.000656	0.00262	1	02/03/2019 12:46	WG1231920
1,2,4-Trichlorobenzene	U	UJ	J0	0.00506	0.0131	1	02/02/2019 18:42	WG1231732
1,1,1-Trichloroethane	U			0.000289	0.00262	1	02/02/2019 18:42	WG1231732
1,1,2-Trichloroethane	U			0.000927	0.00262	1	02/02/2019 18:42	WG1231732
Trichloroethene	0.00256		~~J4~~	0.000420	0.00105	1	02/03/2019 12:46	WG1231920
Trichlorofluoromethane	U			0.000525	0.00262	1	02/02/2019 18:42	WG1231732
1,2,3-Trichloropropane	U			0.00535	0.0131	1	02/02/2019 18:42	WG1231732
1,2,4-Trimethylbenzene	U			0.00122	0.00525	1	02/02/2019 18:42	WG1231732
1,2,3-Trimethylbenzene	U			0.00121	0.00525	1	02/02/2019 18:42	WG1231732
1,3,5-Trimethylbenzene	U			0.00113	0.00525	1	02/02/2019 18:42	WG1231732
Vinyl acetate	U			0.00370	0.0131	1	02/02/2019 18:42	WG1231732
Vinyl chloride	U			0.000717	0.00262	1	02/02/2019 18:42	WG1231732
Xylenes, Total	U			0.00502	0.00682	1	02/02/2019 18:42	WG1231732
(S) Toluene-d8	*104*				*75.0-131*		*02/02/2019 18:42*	WG1231732
(S) Toluene-d8	*99.6*				*75.0-131*		*02/03/2019 12:46*	WG1231920
(S) Dibromofluoromethane	*108*				*65.0-129*		*02/03/2019 12:46*	WG1231920
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*02/02/2019 18:42*	WG1231732
(S) 4-Bromofluorobenzene	*113*				*67.0-138*		*02/03/2019 12:46*	WG1231920
(S) 1,2-Dichloroethane-d4	*95.5*				*70.0-130*		*02/02/2019 18:42*	WG1231732

JC 3/18/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.3		1	02/01/2019 11:16	WG1231193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0280			0.0152	0.0277	1	02/03/2019 13:05	WG1231920
Acrylonitrile	U			0.00211	0.0138	1	02/02/2019 19:02	WG1231732
Benzene	0.000587	J	J	0.000443	0.00111	1	02/02/2019 19:02	WG1231732
Bromobenzene	U			0.00116	0.0138	1	02/02/2019 19:02	WG1231732
Bromodichloromethane	U			0.000873	0.00277	1	02/02/2019 19:02	WG1231732
Bromochloromethane	U			0.00125	0.00554	1	02/02/2019 19:02	WG1231732
Bromoform	U			0.00663	0.0277	1	02/02/2019 19:02	WG1231732
Bromomethane	U			0.00410	0.0138	1	02/02/2019 19:02	WG1231732
n-Butylbenzene	U			0.00425	0.0138	1	02/02/2019 19:02	WG1231732
sec-Butylbenzene	U			0.00280	0.0138	1	02/02/2019 19:02	WG1231732
tert-Butylbenzene	U			0.00172	0.00554	1	02/02/2019 19:02	WG1231732
Carbon disulfide	U			0.00450	0.0138	1	02/02/2019 19:02	WG1231732
Carbon tetrachloride	U			0.00120	0.00554	1	02/02/2019 19:02	WG1231732
Chlorobenzene	U			0.000635	0.00277	1	02/02/2019 19:02	WG1231732
Chlorodibromomethane	U			0.000499	0.00277	1	02/02/2019 19:02	WG1231732
Chloroethane	U			0.00120	0.00554	1	02/02/2019 19:02	WG1231732
Chloroform	U			0.000460	0.00277	1	02/02/2019 19:02	WG1231732
Chloromethane	U			0.00154	0.0138	1	02/02/2019 19:02	WG1231732
2-Chlorotoluene	U			0.00102	0.00277	1	02/02/2019 19:02	WG1231732
4-Chlorotoluene	U			0.00125	0.00554	1	02/02/2019 19:02	WG1231732
1,2-Dibromo-3-Chloropropane	U			0.00565	0.0277	1	02/02/2019 19:02	WG1231732
1,2-Dibromoethane	U			0.000582	0.00277	1	02/02/2019 19:02	WG1231732
Dibromomethane	U			0.00111	0.00554	1	02/02/2019 19:02	WG1231732
1,2-Dichlorobenzene	U			0.00161	0.00554	1	02/02/2019 19:02	WG1231732
1,3-Dichlorobenzene	U			0.00188	0.00554	1	02/02/2019 19:02	WG1231732
1,4-Dichlorobenzene	U			0.00218	0.00554	1	02/02/2019 19:02	WG1231732
Dichlorodifluoromethane	U			0.000906	0.00277	1	02/02/2019 19:02	WG1231732
1,1-Dichloroethane	U			0.000637	0.00277	1	02/02/2019 19:02	WG1231732
1,2-Dichloroethane	U			0.000526	0.00277	1	02/02/2019 19:02	WG1231732
1,1-Dichloroethene	U			0.000554	0.00277	1	02/02/2019 19:02	WG1231732
cis-1,2-Dichloroethene	0.00194	J	J	0.000764	0.00277	1	02/02/2019 19:02	WG1231732
trans-1,2-Dichloroethene	U			0.00158	0.00554	1	02/02/2019 19:02	WG1231732
1,2-Dichloropropane	U			0.00141	0.00554	1	02/02/2019 19:02	WG1231732
1,1-Dichloropropene	U			0.000776	0.00277	1	02/02/2019 19:02	WG1231732
1,3-Dichloropropane	U			0.00194	0.00554	1	02/02/2019 19:02	WG1231732
cis-1,3-Dichloropropene	U			0.000751	0.00277	1	02/02/2019 19:02	WG1231732
trans-1,3-Dichloropropene	U			0.00170	0.00554	1	02/02/2019 19:02	WG1231732
trans-1,4-Dichloro-2-butene	U			0.00155	0.00554	1	02/02/2019 19:02	WG1231732
2,2-Dichloropropane	U			0.000879	0.00277	1	02/02/2019 19:02	WG1231732
Di-isopropyl ether	U			0.000388	0.00111	1	02/02/2019 19:02	WG1231732
Ethylbenzene	U			0.000587	0.00277	1	02/02/2019 19:02	WG1231732
Hexachloro-1,3-butadiene	U	UJ	J0	0.0141	0.0277	1	02/02/2019 19:02	WG1231732
2-Hexanone	U			0.0111	0.0277	1	02/02/2019 19:02	WG1231732
n-Hexane	U			0.00117	0.00554	1	02/02/2019 19:02	WG1231732
Iodomethane	U			0.00670	0.0138	1	02/02/2019 19:02	WG1231732
Isopropylbenzene	U			0.000956	0.00277	1	02/02/2019 19:02	WG1231732
p-Isopropyltoluene	U			0.00258	0.00554	1	02/02/2019 19:02	WG1231732
2-Butanone (MEK)	0.0220	J	J	0.0138	0.0277	1	02/02/2019 19:02	WG1231732
Methylene Chloride	U			0.00736	0.0277	1	02/02/2019 19:02	WG1231732
4-Methyl-2-pentanone (MIBK)	U			0.0111	0.0277	1	02/02/2019 19:02	WG1231732

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000327	0.00111	1	02/02/2019 19:02	WG1231732
Naphthalene	U	UJ	J0	0.00346	0.0138	1	02/02/2019 19:02	WG1231732
n-Propylbenzene	U			0.00131	0.00554	1	02/02/2019 19:02	WG1231732
Styrene	U			0.00302	0.0138	1	02/02/2019 19:02	WG1231732
1,1,1,2-Tetrachloroethane	U			0.000554	0.00277	1	02/02/2019 19:02	WG1231732
1,1,2,2-Tetrachloroethane	U			0.000432	0.00277	1	02/02/2019 19:02	WG1231732
1,1,2-Trichlorotrifluoroethane	U			0.000748	0.00277	1	02/02/2019 19:02	WG1231732
Tetrachloroethene	0.00134	J	J	0.000776	0.00277	1	02/02/2019 19:02	WG1231732
Toluene	U			0.00138	0.00554	1	02/02/2019 19:02	WG1231732
1,2,3-Trichlorobenzene	U			0.000692	0.00277	1	02/03/2019 13:05	WG1231920
1,2,4-Trichlorobenzene	U	UJ	J0	0.00534	0.0138	1	02/02/2019 19:02	WG1231732
1,1,1-Trichloroethane	U			0.000305	0.00277	1	02/02/2019 19:02	WG1231732
1,1,2-Trichloroethane	U			0.000978	0.00277	1	02/02/2019 19:02	WG1231732
Trichloroethene	0.000687	J	J ~~J4~~	0.000443	0.00111	1	02/03/2019 13:05	WG1231920
Trichlorofluoromethane	U			0.000554	0.00277	1	02/02/2019 19:02	WG1231732
1,2,3-Trichloropropane	U			0.00565	0.0138	1	02/02/2019 19:02	WG1231732
1,2,4-Trimethylbenzene	U			0.00129	0.00554	1	02/02/2019 19:02	WG1231732
1,2,3-Trimethylbenzene	U			0.00127	0.00554	1	02/02/2019 19:02	WG1231732
1,3,5-Trimethylbenzene	U			0.00120	0.00554	1	02/02/2019 19:02	WG1231732
Vinyl acetate	U			0.00390	0.0138	1	02/02/2019 19:02	WG1231732
Vinyl chloride	U			0.000757	0.00277	1	02/02/2019 19:02	WG1231732
Xylenes, Total	U			0.00530	0.00720	1	02/02/2019 19:02	WG1231732
(S) Toluene-d8	*104*				*75.0-131*		*02/02/2019 19:02*	WG1231732
(S) Toluene-d8	*99.3*				*75.0-131*		*02/03/2019 13:05*	WG1231920
(S) Dibromofluoromethane	*116*				*65.0-129*		*02/03/2019 13:05*	WG1231920
(S) 4-Bromofluorobenzene	*102*				*67.0-138*		*02/02/2019 19:02*	WG1231732
(S) 4-Bromofluorobenzene	*116*				*67.0-138*		*02/03/2019 13:05*	WG1231920
(S) 1,2-Dichloroethane-d4	*94.5*				*70.0-130*		*02/02/2019 19:02*	WG1231732

JC 3/18/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	02/12/2019 18:13	WG1235875

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0696 J	J0	0.0160	0.0292	1	02/14/2019 16:11	WG1237248
Acrylonitrile	U		0.00222	0.0146	1	02/10/2019 11:51	WG1235014
Benzene	0.00166		0.000467	0.00117	1	02/10/2019 11:51	WG1235014
Bromobenzene	U		0.00123	0.0146	1	02/10/2019 11:51	WG1235014
Bromodichloromethane	U		0.000920	0.00292	1	02/10/2019 11:51	WG1235014
Bromochloromethane	U		0.00132	0.00583	1	02/10/2019 11:51	WG1235014
Bromoform	U		0.00698	0.0292	1	02/10/2019 11:51	WG1235014
Bromomethane	U		0.00432	0.0146	1	02/10/2019 11:51	WG1235014
n-Butylbenzene	U		0.00448	0.0146	1	02/10/2019 11:51	WG1235014
sec-Butylbenzene	U		0.00295	0.0146	1	02/10/2019 11:51	WG1235014
tert-Butylbenzene	U		0.00181	0.00583	1	02/10/2019 11:51	WG1235014
Carbon disulfide	U		0.00474	0.0146	1	02/10/2019 11:51	WG1235014
Carbon tetrachloride	U		0.00126	0.00583	1	02/10/2019 11:51	WG1235014
Chlorobenzene	U		0.000669	0.00292	1	02/10/2019 11:51	WG1235014
Chlorodibromomethane	U		0.000525	0.00292	1	02/10/2019 11:51	WG1235014
Chloroethane	U		0.00126	0.00583	1	02/10/2019 11:51	WG1235014
Chloroform	U		0.000484	0.00292	1	02/10/2019 11:51	WG1235014
Chloromethane	U		0.00162	0.0146	1	02/10/2019 11:51	WG1235014
2-Chlorotoluene	U		0.00107	0.00292	1	02/10/2019 11:51	WG1235014
4-Chlorotoluene	U		0.00132	0.00583	1	02/10/2019 11:51	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00595	0.0292	1	02/10/2019 11:51	WG1235014
1,2-Dibromoethane	U		0.000613	0.00292	1	02/10/2019 11:51	WG1235014
Dibromomethane	U		0.00117	0.00583	1	02/10/2019 11:51	WG1235014
1,2-Dichlorobenzene	U		0.00169	0.00583	1	02/10/2019 11:51	WG1235014
1,3-Dichlorobenzene	U		0.00198	0.00583	1	02/10/2019 11:51	WG1235014
1,4-Dichlorobenzene	U		0.00230	0.00583	1	02/10/2019 11:51	WG1235014
Dichlorodifluoromethane	U		0.000955	0.00292	1	02/10/2019 11:51	WG1235014
1,1-Dichloroethane	U		0.000671	0.00292	1	02/10/2019 11:51	WG1235014
1,2-Dichloroethane	U		0.000554	0.00292	1	02/13/2019 14:33	WG1235339
1,1-Dichloroethene	U		0.000583	0.00292	1	02/10/2019 11:51	WG1235014
cis-1,2-Dichloroethene	0.0243		0.000805	0.00292	1	02/10/2019 11:51	WG1235014
trans-1,2-Dichloroethene	U		0.00167	0.00583	1	02/10/2019 11:51	WG1235014
1,2-Dichloropropane	U		0.00148	0.00583	1	02/13/2019 14:33	WG1235339
1,1-Dichloropropene	U		0.000817	0.00292	1	02/10/2019 11:51	WG1235014
1,3-Dichloropropane	U		0.00204	0.00583	1	02/10/2019 11:51	WG1235014
cis-1,3-Dichloropropene	U		0.000791	0.00292	1	02/10/2019 11:51	WG1235014
trans-1,3-Dichloropropene	U		0.00179	0.00583	1	02/10/2019 11:51	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00163	0.00583	1	02/10/2019 11:51	WG1235014
2,2-Dichloropropane	U		0.000925	0.00292	1	02/10/2019 11:51	WG1235014
Di-isopropyl ether	U		0.000408	0.00117	1	02/10/2019 11:51	WG1235014
Ethylbenzene	U		0.000618	0.00292	1	02/10/2019 11:51	WG1235014
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	02/10/2019 11:51	WG1235014
2-Hexanone	U		0.0117	0.0292	1	02/10/2019 11:51	WG1235014
n-Hexane	U		0.00124	0.00583	1	02/10/2019 11:51	WG1235014
Iodomethane	U		0.00706	0.0146	1	02/10/2019 11:51	WG1235014
Isopropylbenzene	U		0.00101	0.00292	1	02/10/2019 11:51	WG1235014
p-Isopropyltoluene	U		0.00272	0.00583	1	02/10/2019 11:51	WG1235014
2-Butanone (MEK)	0.0149 J	J	0.0146	0.0292	1	02/10/2019 11:51	WG1235014
Methylene Chloride	U		0.00775	0.0292	1	02/10/2019 11:51	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	02/10/2019 11:51	WG1235014 JC 3/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	02/10/2019 11:51	WG1235014
Naphthalene	U		0.00364	0.0146	1	02/10/2019 11:51	WG1235014
n-Propylbenzene	U		0.00138	0.00583	1	02/10/2019 11:51	WG1235014
Styrene	U		0.00319	0.0146	1	02/10/2019 11:51	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000583	0.00292	1	02/10/2019 11:51	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000455	0.00292	1	02/10/2019 11:51	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000788	0.00292	1	02/10/2019 11:51	WG1235014
Tetrachloroethene	0.0477		0.000817	0.00292	1	02/10/2019 11:51	WG1235014
Toluene	U		0.00146	0.00583	1	02/10/2019 11:51	WG1235014
1,2,3-Trichlorobenzene	U		0.000729	0.00292	1	02/10/2019 11:51	WG1235014
1,2,4-Trichlorobenzene	U		0.00562	0.0146	1	02/10/2019 11:51	WG1235014
1,1,1-Trichloroethane	U		0.000321	0.00292	1	02/10/2019 11:51	WG1235014
1,1,2-Trichloroethane	U		0.00103	0.00292	1	02/10/2019 11:51	WG1235014
Trichloroethene	0.0296		0.000467	0.00117	1	02/10/2019 11:51	WG1235014
Trichlorofluoromethane	U		0.000583	0.00292	1	02/10/2019 11:51	WG1235014
1,2,3-Trichloropropane	U		0.00595	0.0146	1	02/10/2019 11:51	WG1235014
1,2,4-Trimethylbenzene	U		0.00135	0.00583	1	02/10/2019 11:51	WG1235014
1,2,3-Trimethylbenzene	U		0.00134	0.00583	1	02/10/2019 11:51	WG1235014
1,3,5-Trimethylbenzene	U		0.00126	0.00583	1	02/10/2019 11:51	WG1235014
Vinyl acetate	U		0.00411	0.0146	1	02/10/2019 11:51	WG1235014
Vinyl chloride	U		0.000797	0.00292	1	02/10/2019 11:51	WG1235014
Xylenes, Total	U		0.00558	0.00759	1	02/10/2019 11:51	WG1235014
(S) Toluene-d8	*102*			*75.0-131*		*02/10/2019 11:51*	WG1235014
(S) Toluene-d8	*100*			*75.0-131*		*02/13/2019 14:33*	WG1235339
(S) Toluene-d8	*102*			*75.0-131*		*02/14/2019 16:11*	WG1237248
(S) 4-Bromofluorobenzene	*93.9*			*67.0-138*		*02/10/2019 11:51*	WG1235014
(S) 4-Bromofluorobenzene	*95.8*			*67.0-138*		*02/13/2019 14:33*	WG1235339
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*02/14/2019 16:11*	WG1237248
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*02/10/2019 11:51*	WG1235014
(S) 1,2-Dichloroethane-d4	*89.9*			*70.0-130*		*02/13/2019 14:33*	WG1235339
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*02/14/2019 16:11*	WG1237248

JC 3/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.0		1	02/12/2019 18:13	WG1235875

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0287	1	02/14/2019 16:35	WG1237248
Acrylonitrile	U		0.00218	0.0144	1	02/10/2019 12:10	WG1235014
Benzene	0.000462 J	J	0.000460	0.00115	1	02/10/2019 12:10	WG1235014
Bromobenzene	U		0.00121	0.0144	1	02/10/2019 12:10	WG1235014
Bromodichloromethane	U		0.000906	0.00287	1	02/10/2019 12:10	WG1235014
Bromochloromethane	U		0.00130	0.00575	1	02/10/2019 12:10	WG1235014
Bromoform	U		0.00687	0.0287	1	02/10/2019 12:10	WG1235014
Bromomethane	U		0.00425	0.0144	1	02/10/2019 12:10	WG1235014
n-Butylbenzene	U		0.00441	0.0144	1	02/10/2019 12:10	WG1235014
sec-Butylbenzene	U		0.00291	0.0144	1	02/10/2019 12:10	WG1235014
tert-Butylbenzene	U		0.00178	0.00575	1	02/10/2019 12:10	WG1235014
Carbon disulfide	U		0.00467	0.0144	1	02/10/2019 12:10	WG1235014
Carbon tetrachloride	U		0.00124	0.00575	1	02/10/2019 12:10	WG1235014
Chlorobenzene	U		0.000659	0.00287	1	02/10/2019 12:10	WG1235014
Chlorodibromomethane	U		0.000517	0.00287	1	02/10/2019 12:10	WG1235014
Chloroethane	U		0.00124	0.00575	1	02/10/2019 12:10	WG1235014
Chloroform	U		0.000477	0.00287	1	02/10/2019 12:10	WG1235014
Chloromethane	U		0.00160	0.0144	1	02/10/2019 12:10	WG1235014
2-Chlorotoluene	U		0.00106	0.00287	1	02/10/2019 12:10	WG1235014
4-Chlorotoluene	U		0.00130	0.00575	1	02/10/2019 12:10	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00586	0.0287	1	02/10/2019 12:10	WG1235014
1,2-Dibromoethane	U		0.000603	0.00287	1	02/10/2019 12:10	WG1235014
Dibromomethane	U		0.00115	0.00575	1	02/10/2019 12:10	WG1235014
1,2-Dichlorobenzene	U		0.00167	0.00575	1	02/10/2019 12:10	WG1235014
1,3-Dichlorobenzene	U		0.00195	0.00575	1	02/10/2019 12:10	WG1235014
1,4-Dichlorobenzene	U		0.00226	0.00575	1	02/10/2019 12:10	WG1235014
Dichlorodifluoromethane	U		0.000940	0.00287	1	02/10/2019 12:10	WG1235014
1,1-Dichloroethane	U		0.000661	0.00287	1	02/10/2019 12:10	WG1235014
1,2-Dichloroethane	U		0.000546	0.00287	1	02/13/2019 14:55	WG1235339
1,1-Dichloroethene	U		0.000575	0.00287	1	02/10/2019 12:10	WG1235014
cis-1,2-Dichloroethene	0.00665		0.000793	0.00287	1	02/10/2019 12:10	WG1235014
trans-1,2-Dichloroethene	U		0.00164	0.00575	1	02/10/2019 12:10	WG1235014
1,2-Dichloropropane	U		0.00146	0.00575	1	02/13/2019 14:55	WG1235339
1,1-Dichloropropene	U		0.000805	0.00287	1	02/10/2019 12:10	WG1235014
1,3-Dichloropropane	U		0.00201	0.00575	1	02/10/2019 12:10	WG1235014
cis-1,3-Dichloropropene	U		0.000779	0.00287	1	02/10/2019 12:10	WG1235014
trans-1,3-Dichloropropene	U		0.00176	0.00575	1	02/10/2019 12:10	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00161	0.00575	1	02/10/2019 12:10	WG1235014
2,2-Dichloropropane	U		0.000911	0.00287	1	02/10/2019 12:10	WG1235014
Di-isopropyl ether	U		0.000402	0.00115	1	02/10/2019 12:10	WG1235014
Ethylbenzene	U		0.000609	0.00287	1	02/10/2019 12:10	WG1235014
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	02/10/2019 12:10	WG1235014
2-Hexanone	U		0.0115	0.0287	1	02/10/2019 12:10	WG1235014
n-Hexane	0.00374 U	~~B J~~	0.00122	0.00575	1	02/10/2019 12:10	WG1235014
Iodomethane	U		0.00695	0.0144	1	02/10/2019 12:10	WG1235014
Isopropylbenzene	U		0.000992	0.00287	1	02/10/2019 12:10	WG1235014
p-Isopropyltoluene	U		0.00268	0.00575	1	02/10/2019 12:10	WG1235014
2-Butanone (MEK)	U		0.0144	0.0287	1	02/10/2019 12:10	WG1235014
Methylene Chloride	U		0.00763	0.0287	1	02/10/2019 12:10	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	02/10/2019 12:10	WG1235014

JC 3/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000339	0.00115	1	02/10/2019 12:10	WG1235014
Naphthalene	U		0.00359	0.0144	1	02/10/2019 12:10	WG1235014
n-Propylbenzene	U		0.00136	0.00575	1	02/10/2019 12:10	WG1235014
Styrene	U		0.00314	0.0144	1	02/10/2019 12:10	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000575	0.00287	1	02/10/2019 12:10	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	02/10/2019 12:10	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000776	0.00287	1	02/10/2019 12:10	WG1235014
Tetrachloroethene	0.0190		0.000805	0.00287	1	02/10/2019 12:10	WG1235014
Toluene	U		0.00144	0.00575	1	02/10/2019 12:10	WG1235014
1,2,3-Trichlorobenzene	U		0.000718	0.00287	1	02/10/2019 12:10	WG1235014
1,2,4-Trichlorobenzene	U		0.00554	0.0144	1	02/10/2019 12:10	WG1235014
1,1,1-Trichloroethane	U		0.000316	0.00287	1	02/10/2019 12:10	WG1235014
1,1,2-Trichloroethane	U		0.00101	0.00287	1	02/10/2019 12:10	WG1235014
Trichloroethene	0.00885		0.000460	0.00115	1	02/10/2019 12:10	WG1235014
Trichlorofluoromethane	U		0.000575	0.00287	1	02/10/2019 12:10	WG1235014
1,2,3-Trichloropropane	U		0.00586	0.0144	1	02/10/2019 12:10	WG1235014
1,2,4-Trimethylbenzene	U		0.00133	0.00575	1	02/10/2019 12:10	WG1235014
1,2,3-Trimethylbenzene	U		0.00132	0.00575	1	02/10/2019 12:10	WG1235014
1,3,5-Trimethylbenzene	U		0.00124	0.00575	1	02/10/2019 12:10	WG1235014
Vinyl acetate	U		0.00405	0.0144	1	02/10/2019 12:10	WG1235014
Vinyl chloride	U		0.000785	0.00287	1	02/10/2019 12:10	WG1235014
Xylenes, Total	U		0.00549	0.00747	1	02/10/2019 12:10	WG1235014
(S) Toluene-d8	*105*			*75.0-131*		*02/10/2019 12:10*	WG1235014
(S) Toluene-d8	*99.7*			*75.0-131*		*02/13/2019 14:55*	WG1235339
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2019 16:35*	WG1237248
(S) 4-Bromofluorobenzene	*97.6*			*67.0-138*		*02/10/2019 12:10*	WG1235014
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*02/13/2019 14:55*	WG1235339
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*02/14/2019 16:35*	WG1237248
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*02/10/2019 12:10*	WG1235014
(S) 1,2-Dichloroethane-d4	*88.7*			*70.0-130*		*02/13/2019 14:55*	WG1235339
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*02/14/2019 16:35*	WG1237248

JC 3/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.9		1	02/12/2019 18:13	WG1235875

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0147	0.0269	1	02/14/2019 16:59	WG1237248	
Acrylonitrile	U		0.00204	0.0135	1	02/10/2019 12:29	WG1235014	
Benzene	U		0.000430	0.00108	1	02/10/2019 12:29	WG1235014	
Bromobenzene	U		0.00113	0.0135	1	02/10/2019 12:29	WG1235014	
Bromodichloromethane	U		0.000848	0.00269	1	02/10/2019 12:29	WG1235014	
Bromochloromethane	U		0.00122	0.00538	1	02/10/2019 12:29	WG1235014	
Bromoform	U		0.00644	0.0269	1	02/10/2019 12:29	WG1235014	
Bromomethane	U		0.00398	0.0135	1	02/10/2019 12:29	WG1235014	
n-Butylbenzene	U		0.00413	0.0135	1	02/10/2019 12:29	WG1235014	
sec-Butylbenzene	U		0.00272	0.0135	1	02/10/2019 12:29	WG1235014	
tert-Butylbenzene	U		0.00167	0.00538	1	02/10/2019 12:29	WG1235014	
Carbon disulfide	U		0.00437	0.0135	1	02/10/2019 12:29	WG1235014	
Carbon tetrachloride	U		0.00116	0.00538	1	02/10/2019 12:29	WG1235014	
Chlorobenzene	U		0.000617	0.00269	1	02/10/2019 12:29	WG1235014	
Chlorodibromomethane	U		0.000484	0.00269	1	02/10/2019 12:29	WG1235014	
Chloroethane	U		0.00116	0.00538	1	02/10/2019 12:29	WG1235014	
Chloroform	U		0.000447	0.00269	1	02/10/2019 12:29	WG1235014	
Chloromethane	U		0.00150	0.0135	1	02/10/2019 12:29	WG1235014	
2-Chlorotoluene	U		0.000990	0.00269	1	02/10/2019 12:29	WG1235014	
4-Chlorotoluene	U		0.00122	0.00538	1	02/10/2019 12:29	WG1235014	
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0269	1	02/10/2019 12:29	WG1235014	
1,2-Dibromoethane	U		0.000565	0.00269	1	02/10/2019 12:29	WG1235014	
Dibromomethane	U		0.00108	0.00538	1	02/10/2019 12:29	WG1235014	
1,2-Dichlorobenzene	U		0.00156	0.00538	1	02/10/2019 12:29	WG1235014	
1,3-Dichlorobenzene	U		0.00183	0.00538	1	02/10/2019 12:29	WG1235014	
1,4-Dichlorobenzene	U		0.00212	0.00538	1	02/10/2019 12:29	WG1235014	
Dichlorodifluoromethane	U		0.000880	0.00269	1	02/10/2019 12:29	WG1235014	
1,1-Dichloroethane	U		0.000619	0.00269	1	02/10/2019 12:29	WG1235014	
1,2-Dichloroethane	U		0.000511	0.00269	1	02/13/2019 15:17	WG1235339	
1,1-Dichloroethene	U		0.000538	0.00269	1	02/10/2019 12:29	WG1235014	
cis-1,2-Dichloroethene	0.00881		0.000743	0.00269	1	02/10/2019 12:29	WG1235014	
trans-1,2-Dichloroethene	U		0.00154	0.00538	1	02/10/2019 12:29	WG1235014	
1,2-Dichloropropane	U		0.00137	0.00538	1	02/13/2019 15:17	WG1235339	
1,1-Dichloropropene	U		0.000753	0.00269	1	02/10/2019 12:29	WG1235014	
1,3-Dichloropropane	U		0.00188	0.00538	1	02/10/2019 12:29	WG1235014	
cis-1,3-Dichloropropene	U		0.000730	0.00269	1	02/10/2019 12:29	WG1235014	
trans-1,3-Dichloropropene	U		0.00165	0.00538	1	02/10/2019 12:29	WG1235014	
trans-1,4-Dichloro-2-butene	U		0.00151	0.00538	1	02/10/2019 12:29	WG1235014	
2,2-Dichloropropane	U		0.000853	0.00269	1	02/10/2019 12:29	WG1235014	
Di-isopropyl ether	U		0.000377	0.00108	1	02/10/2019 12:29	WG1235014	
Ethylbenzene	U		0.000570	0.00269	1	02/10/2019 12:29	WG1235014	
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	02/10/2019 12:29	WG1235014	
2-Hexanone	U		0.0108	0.0269	1	02/10/2019 12:29	WG1235014	
n-Hexane	U		0.00114	0.00538	1	02/10/2019 12:29	WG1235014	
Iodomethane	U		0.00651	0.0135	1	02/10/2019 12:29	WG1235014	
Isopropylbenzene	U		0.000929	0.00269	1	02/10/2019 12:29	WG1235014	
p-Isopropyltoluene	U		0.00251	0.00538	1	02/10/2019 12:29	WG1235014	JC 3/7/19
2-Butanone (MEK)	0.0207 J	J	0.0135	0.0269	1	02/10/2019 12:29	WG1235014	
Methylene Chloride	U		0.00715	0.0269	1	02/10/2019 12:29	WG1235014	
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	02/10/2019 12:29	WG1235014	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000317	0.00108	1	02/10/2019 12:29	WG1235014
Naphthalene	U		0.00336	0.0135	1	02/10/2019 12:29	WG1235014
n-Propylbenzene	U		0.00127	0.00538	1	02/10/2019 12:29	WG1235014
Styrene	U		0.00294	0.0135	1	02/10/2019 12:29	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	02/10/2019 12:29	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000420	0.00269	1	02/10/2019 12:29	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000726	0.00269	1	02/10/2019 12:29	WG1235014
Tetrachloroethene	0.0381		0.000753	0.00269	1	02/10/2019 12:29	WG1235014
Toluene	U		0.00135	0.00538	1	02/10/2019 12:29	WG1235014
1,2,3-Trichlorobenzene	U		0.000673	0.00269	1	02/10/2019 12:29	WG1235014
1,2,4-Trichlorobenzene	U		0.00519	0.0135	1	02/10/2019 12:29	WG1235014
1,1,1-Trichloroethane	U		0.000296	0.00269	1	02/10/2019 12:29	WG1235014
1,1,2-Trichloroethane	U		0.000950	0.00269	1	02/10/2019 12:29	WG1235014
Trichloroethene	0.00731		0.000430	0.00108	1	02/10/2019 12:29	WG1235014
Trichlorofluoromethane	U		0.000538	0.00269	1	02/10/2019 12:29	WG1235014
1,2,3-Trichloropropane	U		0.00549	0.0135	1	02/10/2019 12:29	WG1235014
1,2,4-Trimethylbenzene	U		0.00125	0.00538	1	02/10/2019 12:29	WG1235014
1,2,3-Trimethylbenzene	U		0.00124	0.00538	1	02/10/2019 12:29	WG1235014
1,3,5-Trimethylbenzene	U		0.00116	0.00538	1	02/10/2019 12:29	WG1235014
Vinyl acetate	U		0.00379	0.0135	1	02/10/2019 12:29	WG1235014
Vinyl chloride	0.00576		0.000735	0.00269	1	02/10/2019 12:29	WG1235014
Xylenes, Total	U		0.00514	0.00700	1	02/10/2019 12:29	WG1235014
(S) Toluene-d8	*101*			*75.0-131*		*02/10/2019 12:29*	WG1235014
(S) Toluene-d8	*99.3*			*75.0-131*		*02/13/2019 15:17*	WG1235339
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2019 16:59*	WG1237248
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*		*02/10/2019 12:29*	WG1235014
(S) 4-Bromofluorobenzene	*95.5*			*67.0-138*		*02/13/2019 15:17*	WG1235339
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*02/14/2019 16:59*	WG1237248
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*02/10/2019 12:29*	WG1235014
(S) 1,2-Dichloroethane-d4	*89.2*			*70.0-130*		*02/13/2019 15:17*	WG1235339
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*02/14/2019 16:59*	WG1237248

JC 3/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.6		1	02/12/2019 18:01	WG1235876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.146	0.267	10	02/14/2019 19:24	WG1237248	
Acrylonitrile	U		0.00203	0.0134	1	02/10/2019 12:47	WG1235014	
Benzene	0.000558 J	J	0.000427	0.00107	1	02/10/2019 12:47	WG1235014	
Bromobenzene	U		0.00112	0.0134	1	02/10/2019 12:47	WG1235014	
Bromodichloromethane	U		0.000842	0.00267	1	02/10/2019 12:47	WG1235014	
Bromochloromethane	U		0.00121	0.00534	1	02/10/2019 12:47	WG1235014	
Bromoform	U		0.00639	0.0267	1	02/10/2019 12:47	WG1235014	
Bromomethane	U		0.00395	0.0134	1	02/10/2019 12:47	WG1235014	
n-Butylbenzene	U		0.00410	0.0134	1	02/10/2019 12:47	WG1235014	
sec-Butylbenzene	U		0.00270	0.0134	1	02/10/2019 12:47	WG1235014	
tert-Butylbenzene	U		0.00166	0.00534	1	02/10/2019 12:47	WG1235014	
Carbon disulfide	U		0.00434	0.0134	1	02/10/2019 12:47	WG1235014	
Carbon tetrachloride	U		0.00115	0.00534	1	02/10/2019 12:47	WG1235014	
Chlorobenzene	U		0.000612	0.00267	1	02/10/2019 12:47	WG1235014	
Chlorodibromomethane	U		0.000481	0.00267	1	02/10/2019 12:47	WG1235014	
Chloroethane	U		0.00115	0.00534	1	02/10/2019 12:47	WG1235014	
Chloroform	U		0.000443	0.00267	1	02/10/2019 12:47	WG1235014	
Chloromethane	U		0.00148	0.0134	1	02/10/2019 12:47	WG1235014	
2-Chlorotoluene	U		0.000983	0.00267	1	02/10/2019 12:47	WG1235014	
4-Chlorotoluene	U		0.00121	0.00534	1	02/10/2019 12:47	WG1235014	
1,2-Dibromo-3-Chloropropane	U		0.00545	0.0267	1	02/10/2019 12:47	WG1235014	
1,2-Dibromoethane	U		0.000561	0.00267	1	02/10/2019 12:47	WG1235014	
Dibromomethane	U		0.00107	0.00534	1	02/10/2019 12:47	WG1235014	
1,2-Dichlorobenzene	U		0.00155	0.00534	1	02/10/2019 12:47	WG1235014	
1,3-Dichlorobenzene	U		0.00182	0.00534	1	02/10/2019 12:47	WG1235014	
1,4-Dichlorobenzene	U		0.00210	0.00534	1	02/10/2019 12:47	WG1235014	
Dichlorodifluoromethane	U		0.000874	0.00267	1	02/10/2019 12:47	WG1235014	
1,1-Dichloroethane	U		0.000614	0.00267	1	02/10/2019 12:47	WG1235014	
1,2-Dichloroethane	0.00771 J	J	0.00507	0.0267	10	02/13/2019 17:31	WG1235339	
1,1-Dichloroethene	0.00349		0.000534	0.00267	1	02/10/2019 12:47	WG1235014	
cis-1,2-Dichloroethene	1.04		0.000737	0.00267	1	02/10/2019 12:47	WG1235014	
trans-1,2-Dichloroethene	0.00738		0.00153	0.00534	1	02/10/2019 12:47	WG1235014	
1,2-Dichloropropane	U		0.0136	0.0534	10	02/13/2019 17:31	WG1235339	
1,1-Dichloropropene	U		0.000748	0.00267	1	02/10/2019 12:47	WG1235014	
1,3-Dichloropropane	U		0.00187	0.00534	1	02/10/2019 12:47	WG1235014	
cis-1,3-Dichloropropene	U		0.000724	0.00267	1	02/10/2019 12:47	WG1235014	
trans-1,3-Dichloropropene	U		0.00163	0.00534	1	02/10/2019 12:47	WG1235014	
trans-1,4-Dichloro-2-butene	U		0.00150	0.00534	1	02/10/2019 12:47	WG1235014	
2,2-Dichloropropane	U		0.000847	0.00267	1	02/10/2019 12:47	WG1235014	
Di-isopropyl ether	U		0.000374	0.00107	1	02/10/2019 12:47	WG1235014	
Ethylbenzene	U		0.000566	0.00267	1	02/10/2019 12:47	WG1235014	
Hexachloro-1,3-butadiene	U		0.0136	0.0267	1	02/10/2019 12:47	WG1235014	
2-Hexanone	U		0.0107	0.0267	1	02/10/2019 12:47	WG1235014	
n-Hexane	0.00516 U	~~B J~~	0.00113	0.00534	1	02/10/2019 12:47	WG1235014	
Iodomethane	U		0.00646	0.0134	1	02/10/2019 12:47	WG1235014	
Isopropylbenzene	U		0.000922	0.00267	1	02/10/2019 12:47	WG1235014	
p-Isopropyltoluene	U		0.00249	0.00534	1	02/10/2019 12:47	WG1235014	JC 3/7/19
2-Butanone (MEK)	0.0169 J	J	0.0134	0.0267	1	02/10/2019 12:47	WG1235014	
Methylene Chloride	U		0.00709	0.0267	1	02/10/2019 12:47	WG1235014	
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	02/10/2019 12:47	WG1235014	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000315	0.00107	1	02/10/2019 12:47	WG1235014
Naphthalene	U		0.00333	0.0134	1	02/10/2019 12:47	WG1235014
n-Propylbenzene	U		0.00126	0.00534	1	02/10/2019 12:47	WG1235014
Styrene	U		0.00292	0.0134	1	02/10/2019 12:47	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000534	0.00267	1	02/10/2019 12:47	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000417	0.00267	1	02/10/2019 12:47	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000721	0.00267	1	02/10/2019 12:47	WG1235014
Tetrachloroethene	4.44		0.00748	0.0267	10	02/13/2019 17:31	WG1235339
Toluene	0.00160 J	J	0.00134	0.00534	1	02/10/2019 12:47	WG1235014
1,2,3-Trichlorobenzene	U		0.000668	0.00267	1	02/10/2019 12:47	WG1235014
1,2,4-Trichlorobenzene	U		0.00515	0.0134	1	02/10/2019 12:47	WG1235014
1,1,1-Trichloroethane	U		0.000294	0.00267	1	02/10/2019 12:47	WG1235014
1,1,2-Trichloroethane	U		0.000943	0.00267	1	02/10/2019 12:47	WG1235014
Trichloroethene	1.32		0.000427	0.00107	1	02/10/2019 12:47	WG1235014
Trichlorofluoromethane	U		0.000534	0.00267	1	02/10/2019 12:47	WG1235014
1,2,3-Trichloropropane	U		0.00545	0.0134	1	02/10/2019 12:47	WG1235014
1,2,4-Trimethylbenzene	U		0.00124	0.00534	1	02/10/2019 12:47	WG1235014
1,2,3-Trimethylbenzene	U		0.00123	0.00534	1	02/10/2019 12:47	WG1235014
1,3,5-Trimethylbenzene	U		0.00115	0.00534	1	02/10/2019 12:47	WG1235014
Vinyl acetate	U		0.00376	0.0134	1	02/10/2019 12:47	WG1235014
Vinyl chloride	0.0872		0.000730	0.00267	1	02/10/2019 12:47	WG1235014
Xylenes, Total	U		0.00511	0.00694	1	02/10/2019 12:47	WG1235014
(S) Toluene-d8	*104*			*75.0-131*		*02/10/2019 12:47*	WG1235014
(S) Toluene-d8	*98.0*			*75.0-131*		*02/13/2019 17:31*	WG1235339
(S) Toluene-d8	*105*			*75.0-131*		*02/14/2019 19:24*	WG1237248
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*		*02/10/2019 12:47*	WG1235014
(S) 4-Bromofluorobenzene	*97.0*			*67.0-138*		*02/13/2019 17:31*	WG1235339
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*		*02/14/2019 19:24*	WG1237248
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*02/10/2019 12:47*	WG1235014
(S) 1,2-Dichloroethane-d4	*99.0*			*70.0-130*		*02/13/2019 17:31*	WG1235339
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*02/14/2019 19:24*	WG1237248

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A9C9-35
Collected date/time: 02/07/19 09:07

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.5		1	02/12/2019 18:01	WG1235876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0145	0.0265	1	02/14/2019 17:23	WG1237248
Acrylonitrile	U		0.00201	0.0132	1	02/10/2019 13:06	WG1235014
Benzene	U		0.000423	0.00106	1	02/10/2019 13:06	WG1235014
Bromobenzene	U		0.00111	0.0132	1	02/10/2019 13:06	WG1235014
Bromodichloromethane	U		0.000834	0.00265	1	02/10/2019 13:06	WG1235014
Bromochloromethane	U		0.00120	0.00529	1	02/10/2019 13:06	WG1235014
Bromoform	U		0.00633	0.0265	1	02/10/2019 13:06	WG1235014
Bromomethane	U		0.00392	0.0132	1	02/10/2019 13:06	WG1235014
n-Butylbenzene	U		0.00406	0.0132	1	02/10/2019 13:06	WG1235014
sec-Butylbenzene	U		0.00268	0.0132	1	02/10/2019 13:06	WG1235014
tert-Butylbenzene	U		0.00164	0.00529	1	02/10/2019 13:06	WG1235014
Carbon disulfide	U		0.00430	0.0132	1	02/10/2019 13:06	WG1235014
Carbon tetrachloride	U		0.00114	0.00529	1	02/10/2019 13:06	WG1235014
Chlorobenzene	U		0.000606	0.00265	1	02/10/2019 13:06	WG1235014
Chlorodibromomethane	U		0.000476	0.00265	1	02/10/2019 13:06	WG1235014
Chloroethane	U		0.00114	0.00529	1	02/10/2019 13:06	WG1235014
Chloroform	U		0.000439	0.00265	1	02/10/2019 13:06	WG1235014
Chloromethane	U		0.00147	0.0132	1	02/10/2019 13:06	WG1235014
2-Chlorotoluene	U		0.000974	0.00265	1	02/10/2019 13:06	WG1235014
4-Chlorotoluene	U		0.00120	0.00529	1	02/10/2019 13:06	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00540	0.0265	1	02/10/2019 13:06	WG1235014
1,2-Dibromoethane	U		0.000556	0.00265	1	02/10/2019 13:06	WG1235014
Dibromomethane	U		0.00106	0.00529	1	02/10/2019 13:06	WG1235014
1,2-Dichlorobenzene	U		0.00153	0.00529	1	02/10/2019 13:06	WG1235014
1,3-Dichlorobenzene	U		0.00180	0.00529	1	02/10/2019 13:06	WG1235014
1,4-Dichlorobenzene	U		0.00208	0.00529	1	02/10/2019 13:06	WG1235014
Dichlorodifluoromethane	U		0.000866	0.00265	1	02/10/2019 13:06	WG1235014
1,1-Dichloroethane	U		0.000609	0.00265	1	02/10/2019 13:06	WG1235014
1,2-Dichloroethane	U		0.000503	0.00265	1	02/13/2019 15:40	WG1235339
1,1-Dichloroethene	U		0.000529	0.00265	1	02/10/2019 13:06	WG1235014
cis-1,2-Dichloroethene	0.167		0.000730	0.00265	1	02/10/2019 13:06	WG1235014
trans-1,2-Dichloroethene	0.00170 J	J	0.00151	0.00529	1	02/10/2019 13:06	WG1235014
1,2-Dichloropropane	U		0.00134	0.00529	1	02/13/2019 15:40	WG1235339
1,1-Dichloropropene	U		0.000741	0.00265	1	02/10/2019 13:06	WG1235014
1,3-Dichloropropane	U		0.00185	0.00529	1	02/10/2019 13:06	WG1235014
cis-1,3-Dichloropropene	U		0.000718	0.00265	1	02/10/2019 13:06	WG1235014
trans-1,3-Dichloropropene	U		0.00162	0.00529	1	02/10/2019 13:06	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00148	0.00529	1	02/10/2019 13:06	WG1235014
2,2-Dichloropropane	U		0.000839	0.00265	1	02/10/2019 13:06	WG1235014
Di-isopropyl ether	U		0.000370	0.00106	1	02/10/2019 13:06	WG1235014
Ethylbenzene	U		0.000561	0.00265	1	02/10/2019 13:06	WG1235014
Hexachloro-1,3-butadiene	U		0.0134	0.0265	1	02/10/2019 13:06	WG1235014
2-Hexanone	U		0.0106	0.0265	1	02/10/2019 13:06	WG1235014
n-Hexane	0.00317 U	~~B J~~	0.00112	0.00529	1	02/10/2019 13:06	WG1235014
Iodomethane	U		0.00640	0.0132	1	02/10/2019 13:06	WG1235014
Isopropylbenzene	U		0.000913	0.00265	1	02/10/2019 13:06	WG1235014
p-Isopropyltoluene	U		0.00247	0.00529	1	02/10/2019 13:06	WG1235014
2-Butanone (MEK)	U		0.0132	0.0265	1	02/10/2019 13:06	WG1235014
Methylene Chloride	U		0.00703	0.0265	1	02/10/2019 13:06	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0265	1	02/10/2019 13:06	WG1235014

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A9C9-35

SAMPLE RESULTS - 05

Collected date/time: 02/07/19 09:07

L1068436

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000312	0.00106	1	02/10/2019 13:06	WG1235014
Naphthalene	U		0.00330	0.0132	1	02/10/2019 13:06	WG1235014
n-Propylbenzene	U		0.00125	0.00529	1	02/10/2019 13:06	WG1235014
Styrene	U		0.00289	0.0132	1	02/10/2019 13:06	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000529	0.00265	1	02/10/2019 13:06	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000413	0.00265	1	02/10/2019 13:06	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000714	0.00265	1	02/10/2019 13:06	WG1235014
Tetrachloroethene	0.187		0.000741	0.00265	1	02/13/2019 15:40	WG1235339
Toluene	U		0.00132	0.00529	1	02/10/2019 13:06	WG1235014
1,2,3-Trichlorobenzene	U		0.000661	0.00265	1	02/10/2019 13:06	WG1235014
1,2,4-Trichlorobenzene	U		0.00510	0.0132	1	02/10/2019 13:06	WG1235014
1,1,1-Trichloroethane	U		0.000291	0.00265	1	02/10/2019 13:06	WG1235014
1,1,2-Trichloroethane	U		0.000934	0.00265	1	02/10/2019 13:06	WG1235014
Trichloroethene	0.248		0.000423	0.00106	1	02/10/2019 13:06	WG1235014
Trichlorofluoromethane	U		0.000529	0.00265	1	02/10/2019 13:06	WG1235014
1,2,3-Trichloropropane	U		0.00540	0.0132	1	02/10/2019 13:06	WG1235014
1,2,4-Trimethylbenzene	U		0.00123	0.00529	1	02/10/2019 13:06	WG1235014
1,2,3-Trimethylbenzene	U		0.00122	0.00529	1	02/10/2019 13:06	WG1235014
1,3,5-Trimethylbenzene	U		0.00114	0.00529	1	02/10/2019 13:06	WG1235014
Vinyl acetate	U		0.00373	0.0132	1	02/10/2019 13:06	WG1235014
Vinyl chloride	0.00747		0.000723	0.00265	1	02/10/2019 13:06	WG1235014
Xylenes, Total	U		0.00506	0.00688	1	02/10/2019 13:06	WG1235014
(S) Toluene-d8	*102*			*75.0-131*		*02/10/2019 13:06*	WG1235014
(S) Toluene-d8	*99.2*			*75.0-131*		*02/13/2019 15:40*	WG1235339
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2019 17:23*	WG1237248
(S) 4-Bromofluorobenzene	*97.0*			*67.0-138*		*02/10/2019 13:06*	WG1235014
(S) 4-Bromofluorobenzene	*95.2*			*67.0-138*		*02/13/2019 15:40*	WG1235339
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*02/14/2019 17:23*	WG1237248
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*02/10/2019 13:06*	WG1235014
(S) 1,2-Dichloroethane-d4	*90.7*			*70.0-130*		*02/13/2019 15:40*	WG1235339
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*02/14/2019 17:23*	WG1237248

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 3/7/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.2		1	02/12/2019 18:01	WG1235876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0147	0.0268	1	02/14/2019 17:48	WG1237248
Acrylonitrile	U		0.00204	0.0134	1	02/10/2019 13:25	WG1235014
Benzene	0.000825 J	J	0.000429	0.00107	1	02/10/2019 13:25	WG1235014
Bromobenzene	U		0.00113	0.0134	1	02/10/2019 13:25	WG1235014
Bromodichloromethane	U		0.000845	0.00268	1	02/10/2019 13:25	WG1235014
Bromochloromethane	U		0.00121	0.00536	1	02/10/2019 13:25	WG1235014
Bromoform	U		0.00641	0.0268	1	02/10/2019 13:25	WG1235014
Bromomethane	U		0.00397	0.0134	1	02/10/2019 13:25	WG1235014
n-Butylbenzene	U		0.00412	0.0134	1	02/10/2019 13:25	WG1235014
sec-Butylbenzene	U		0.00271	0.0134	1	02/10/2019 13:25	WG1235014
tert-Butylbenzene	U		0.00166	0.00536	1	02/10/2019 13:25	WG1235014
Carbon disulfide	U		0.00436	0.0134	1	02/10/2019 13:25	WG1235014
Carbon tetrachloride	U		0.00116	0.00536	1	02/10/2019 13:25	WG1235014
Chlorobenzene	U		0.000615	0.00268	1	02/10/2019 13:25	WG1235014
Chlorodibromomethane	U		0.000483	0.00268	1	02/10/2019 13:25	WG1235014
Chloroethane	U		0.00116	0.00536	1	02/10/2019 13:25	WG1235014
Chloroform	U		0.000445	0.00268	1	02/10/2019 13:25	WG1235014
Chloromethane	U		0.00149	0.0134	1	02/10/2019 13:25	WG1235014
2-Chlorotoluene	U		0.000987	0.00268	1	02/10/2019 13:25	WG1235014
4-Chlorotoluene	U		0.00121	0.00536	1	02/10/2019 13:25	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00547	0.0268	1	02/10/2019 13:25	WG1235014
1,2-Dibromoethane	U		0.000563	0.00268	1	02/10/2019 13:25	WG1235014
Dibromomethane	U		0.00107	0.00536	1	02/10/2019 13:25	WG1235014
1,2-Dichlorobenzene	U		0.00156	0.00536	1	02/10/2019 13:25	WG1235014
1,3-Dichlorobenzene	U		0.00182	0.00536	1	02/10/2019 13:25	WG1235014
1,4-Dichlorobenzene	U		0.00211	0.00536	1	02/10/2019 13:25	WG1235014
Dichlorodifluoromethane	U		0.000877	0.00268	1	02/10/2019 13:25	WG1235014
1,1-Dichloroethane	U		0.000617	0.00268	1	02/10/2019 13:25	WG1235014
1,2-Dichloroethane	U		0.000510	0.00268	1	02/13/2019 16:02	WG1235339
1,1-Dichloroethene	0.00636		0.000536	0.00268	1	02/10/2019 13:25	WG1235014
cis-1,2-Dichloroethene	1.74		0.000740	0.00268	1	02/10/2019 13:25	WG1235014
trans-1,2-Dichloroethene	0.00383 J	J	0.00153	0.00536	1	02/10/2019 13:25	WG1235014
1,2-Dichloropropane	U		0.00136	0.00536	1	02/13/2019 16:02	WG1235339
1,1-Dichloropropene	U		0.000751	0.00268	1	02/10/2019 13:25	WG1235014
1,3-Dichloropropane	U		0.00188	0.00536	1	02/10/2019 13:25	WG1235014
cis-1,3-Dichloropropene	U		0.000727	0.00268	1	02/10/2019 13:25	WG1235014
trans-1,3-Dichloropropene	U		0.00164	0.00536	1	02/10/2019 13:25	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00150	0.00536	1	02/10/2019 13:25	WG1235014
2,2-Dichloropropane	U		0.000851	0.00268	1	02/10/2019 13:25	WG1235014
Di-isopropyl ether	U		0.000375	0.00107	1	02/10/2019 13:25	WG1235014
Ethylbenzene	U		0.000569	0.00268	1	02/10/2019 13:25	WG1235014
Hexachloro-1,3-butadiene	U		0.0136	0.0268	1	02/10/2019 13:25	WG1235014
2-Hexanone	U		0.0107	0.0268	1	02/10/2019 13:25	WG1235014
n-Hexane	U		0.00114	0.00536	1	02/10/2019 13:25	WG1235014
Iodomethane	U		0.00649	0.0134	1	02/10/2019 13:25	WG1235014
Isopropylbenzene	U		0.000926	0.00268	1	02/10/2019 13:25	WG1235014
p-Isopropyltoluene	U		0.00250	0.00536	1	02/10/2019 13:25	WG1235014
2-Butanone (MEK)	0.0209 J	J	0.0134	0.0268	1	02/10/2019 13:25	WG1235014
Methylene Chloride	U		0.00712	0.0268	1	02/10/2019 13:25	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0268	1	02/10/2019 13:25	WG1235014

JC 3/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000316	0.00107	1	02/10/2019 13:25	WG1235014
Naphthalene	U		0.00335	0.0134	1	02/10/2019 13:25	WG1235014
n-Propylbenzene	U		0.00127	0.00536	1	02/10/2019 13:25	WG1235014
Styrene	U		0.00293	0.0134	1	02/10/2019 13:25	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000536	0.00268	1	02/10/2019 13:25	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000418	0.00268	1	02/10/2019 13:25	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000724	0.00268	1	02/10/2019 13:25	WG1235014
Tetrachloroethene	0.0243		0.000751	0.00268	1	02/13/2019 16:02	WG1235339
Toluene	0.00217 J	J	0.00134	0.00536	1	02/10/2019 13:25	WG1235014
1,2,3-Trichlorobenzene	U		0.000670	0.00268	1	02/10/2019 13:25	WG1235014
1,2,4-Trichlorobenzene	U		0.00517	0.0134	1	02/10/2019 13:25	WG1235014
1,1,1-Trichloroethane	U		0.000295	0.00268	1	02/10/2019 13:25	WG1235014
1,1,2-Trichloroethane	U		0.000947	0.00268	1	02/10/2019 13:25	WG1235014
Trichloroethene	0.153		0.000429	0.00107	1	02/10/2019 13:25	WG1235014
Trichlorofluoromethane	U		0.000536	0.00268	1	02/10/2019 13:25	WG1235014
1,2,3-Trichloropropane	U		0.00547	0.0134	1	02/10/2019 13:25	WG1235014
1,2,4-Trimethylbenzene	U		0.00124	0.00536	1	02/10/2019 13:25	WG1235014
1,2,3-Trimethylbenzene	U		0.00123	0.00536	1	02/10/2019 13:25	WG1235014
1,3,5-Trimethylbenzene	U		0.00116	0.00536	1	02/10/2019 13:25	WG1235014
Vinyl acetate	U		0.00378	0.0134	1	02/10/2019 13:25	WG1235014
Vinyl chloride	0.0754		0.000733	0.00268	1	02/10/2019 13:25	WG1235014
Xylenes, Total	U		0.00513	0.00697	1	02/10/2019 13:25	WG1235014
(S) Toluene-d8	*101*			*75.0-131*		*02/10/2019 13:25*	WG1235014
(S) Toluene-d8	*100*			*75.0-131*		*02/13/2019 16:02*	WG1235339
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2019 17:48*	WG1237248
(S) 4-Bromofluorobenzene	*99.0*			*67.0-138*		*02/10/2019 13:25*	WG1235014
(S) 4-Bromofluorobenzene	*95.1*			*67.0-138*		*02/13/2019 16:02*	WG1235339
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*02/14/2019 17:48*	WG1237248
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*02/10/2019 13:25*	WG1235014
(S) 1,2-Dichloroethane-d4	*89.9*			*70.0-130*		*02/13/2019 16:02*	WG1235339
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*02/14/2019 17:48*	WG1237248

JC 3/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.6		1	02/12/2019 18:01	WG1235876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0143	0.0262	1	02/14/2019 18:12	WG1237248
Acrylonitrile	U		0.00199	0.0131	1	02/10/2019 13:43	WG1235014
Benzene	0.000500 J	J	0.000419	0.00105	1	02/10/2019 13:43	WG1235014
Bromobenzene	U		0.00110	0.0131	1	02/10/2019 13:43	WG1235014
Bromodichloromethane	U		0.000825	0.00262	1	02/10/2019 13:43	WG1235014
Bromochloromethane	U		0.00118	0.00523	1	02/10/2019 13:43	WG1235014
Bromoform	U		0.00626	0.0262	1	02/10/2019 13:43	WG1235014
Bromomethane	U		0.00387	0.0131	1	02/10/2019 13:43	WG1235014
n-Butylbenzene	U		0.00402	0.0131	1	02/10/2019 13:43	WG1235014
sec-Butylbenzene	U		0.00265	0.0131	1	02/10/2019 13:43	WG1235014
tert-Butylbenzene	U		0.00162	0.00523	1	02/10/2019 13:43	WG1235014
Carbon disulfide	0.00996 J	J	0.00425	0.0131	1	02/10/2019 13:43	WG1235014
Carbon tetrachloride	U		0.00113	0.00523	1	02/10/2019 13:43	WG1235014
Chlorobenzene	U		0.000600	0.00262	1	02/10/2019 13:43	WG1235014
Chlorodibromomethane	U		0.000471	0.00262	1	02/10/2019 13:43	WG1235014
Chloroethane	U		0.00113	0.00523	1	02/10/2019 13:43	WG1235014
Chloroform	U		0.000434	0.00262	1	02/10/2019 13:43	WG1235014
Chloromethane	U		0.00145	0.0131	1	02/10/2019 13:43	WG1235014
2-Chlorotoluene	U		0.000963	0.00262	1	02/10/2019 13:43	WG1235014
4-Chlorotoluene	U		0.00118	0.00523	1	02/10/2019 13:43	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00534	0.0262	1	02/10/2019 13:43	WG1235014
1,2-Dibromoethane	U		0.000549	0.00262	1	02/10/2019 13:43	WG1235014
Dibromomethane	U		0.00105	0.00523	1	02/10/2019 13:43	WG1235014
1,2-Dichlorobenzene	U		0.00152	0.00523	1	02/10/2019 13:43	WG1235014
1,3-Dichlorobenzene	U		0.00178	0.00523	1	02/10/2019 13:43	WG1235014
1,4-Dichlorobenzene	U		0.00206	0.00523	1	02/10/2019 13:43	WG1235014
Dichlorodifluoromethane	U		0.000856	0.00262	1	02/10/2019 13:43	WG1235014
1,1-Dichloroethane	U		0.000602	0.00262	1	02/10/2019 13:43	WG1235014
1,2-Dichloroethane	U		0.000497	0.00262	1	02/13/2019 16:24	WG1235339
1,1-Dichloroethene	U		0.000523	0.00262	1	02/10/2019 13:43	WG1235014
cis-1,2-Dichloroethene	0.0596		0.000722	0.00262	1	02/10/2019 13:43	WG1235014
trans-1,2-Dichloroethene	U		0.00150	0.00523	1	02/10/2019 13:43	WG1235014
1,2-Dichloropropane	U		0.00133	0.00523	1	02/13/2019 16:24	WG1235339
1,1-Dichloropropene	U		0.000732	0.00262	1	02/10/2019 13:43	WG1235014
1,3-Dichloropropane	U		0.00183	0.00523	1	02/10/2019 13:43	WG1235014
cis-1,3-Dichloropropene	U		0.000709	0.00262	1	02/10/2019 13:43	WG1235014
trans-1,3-Dichloropropene	U		0.00160	0.00523	1	02/10/2019 13:43	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00146	0.00523	1	02/10/2019 13:43	WG1235014
2,2-Dichloropropane	U		0.000830	0.00262	1	02/10/2019 13:43	WG1235014
Di-isopropyl ether	U		0.000366	0.00105	1	02/10/2019 13:43	WG1235014
Ethylbenzene	U		0.000555	0.00262	1	02/10/2019 13:43	WG1235014
Hexachloro-1,3-butadiene	U		0.0133	0.0262	1	02/10/2019 13:43	WG1235014
2-Hexanone	U		0.0105	0.0262	1	02/10/2019 13:43	WG1235014
n-Hexane	U		0.00111	0.00523	1	02/10/2019 13:43	WG1235014
Iodomethane	U		0.00633	0.0131	1	02/10/2019 13:43	WG1235014
Isopropylbenzene	U		0.000903	0.00262	1	02/10/2019 13:43	WG1235014
p-Isopropyltoluene	U		0.00244	0.00523	1	02/10/2019 13:43	WG1235014
2-Butanone (MEK)	0.0182 J	J	0.0131	0.0262	1	02/10/2019 13:43	WG1235014
Methylene Chloride	U		0.00695	0.0262	1	02/10/2019 13:43	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0262	1	02/10/2019 13:43	WG1235014

JC 3/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.000435 J	J	0.000309	0.00105	1	02/10/2019 13:43	WG1235014
Naphthalene	U		0.00326	0.0131	1	02/10/2019 13:43	WG1235014
n-Propylbenzene	U		0.00123	0.00523	1	02/10/2019 13:43	WG1235014
Styrene	U		0.00286	0.0131	1	02/10/2019 13:43	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000523	0.00262	1	02/10/2019 13:43	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000408	0.00262	1	02/10/2019 13:43	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000706	0.00262	1	02/10/2019 13:43	WG1235014
Tetrachloroethene	0.00154 J	J	0.000732	0.00262	1	02/13/2019 16:24	WG1235339
Toluene	0.00140 J	J	0.00131	0.00523	1	02/10/2019 13:43	WG1235014
1,2,3-Trichlorobenzene	U		0.000654	0.00262	1	02/10/2019 13:43	WG1235014
1,2,4-Trichlorobenzene	U		0.00504	0.0131	1	02/10/2019 13:43	WG1235014
1,1,1-Trichloroethane	U		0.000288	0.00262	1	02/10/2019 13:43	WG1235014
1,1,2-Trichloroethane	U		0.000924	0.00262	1	02/10/2019 13:43	WG1235014
Trichloroethene	0.00275		0.000419	0.00105	1	02/10/2019 13:43	WG1235014
Trichlorofluoromethane	U		0.000523	0.00262	1	02/10/2019 13:43	WG1235014
1,2,3-Trichloropropane	U		0.00534	0.0131	1	02/10/2019 13:43	WG1235014
1,2,4-Trimethylbenzene	U		0.00121	0.00523	1	02/10/2019 13:43	WG1235014
1,2,3-Trimethylbenzene	U		0.00120	0.00523	1	02/10/2019 13:43	WG1235014
1,3,5-Trimethylbenzene	U		0.00113	0.00523	1	02/10/2019 13:43	WG1235014
Vinyl acetate	U		0.00368	0.0131	1	02/10/2019 13:43	WG1235014
Vinyl chloride	0.0123		0.000715	0.00262	1	02/10/2019 13:43	WG1235014
Xylenes, Total	U		0.00500	0.00680	1	02/10/2019 13:43	WG1235014
(S) Toluene-d8	*103*			*75.0-131*		*02/10/2019 13:43*	WG1235014
(S) Toluene-d8	*100*			*75.0-131*		*02/13/2019 16:24*	WG1235339
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2019 18:12*	WG1237248
(S) 4-Bromofluorobenzene	*97.5*			*67.0-138*		*02/10/2019 13:43*	WG1235014
(S) 4-Bromofluorobenzene	*97.0*			*67.0-138*		*02/13/2019 16:24*	WG1235339
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*02/14/2019 18:12*	WG1237248
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*02/10/2019 13:43*	WG1235014
(S) 1,2-Dichloroethane-d4	*89.8*			*70.0-130*		*02/13/2019 16:24*	WG1235339
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*02/14/2019 18:12*	WG1237248

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.0		1	02/12/2019 18:01	WG1235876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0170	U ~~J~~	0.0147	0.0269	1	02/14/2019 18:36	WG1237248
Acrylonitrile	U		0.00204	0.0134	1	02/10/2019 14:02	WG1235014
Benzene	0.000690	J J	0.000430	0.00108	1	02/10/2019 14:02	WG1235014
Bromobenzene	U		0.00113	0.0134	1	02/10/2019 14:02	WG1235014
Bromodichloromethane	U		0.000847	0.00269	1	02/10/2019 14:02	WG1235014
Bromochloromethane	U		0.00121	0.00538	1	02/10/2019 14:02	WG1235014
Bromoform	U		0.00643	0.0269	1	02/10/2019 14:02	WG1235014
Bromomethane	U		0.00398	0.0134	1	02/10/2019 14:02	WG1235014
n-Butylbenzene	U		0.00413	0.0134	1	02/10/2019 14:02	WG1235014
sec-Butylbenzene	U		0.00272	0.0134	1	02/10/2019 14:02	WG1235014
tert-Butylbenzene	U		0.00167	0.00538	1	02/10/2019 14:02	WG1235014
Carbon disulfide	U		0.00436	0.0134	1	02/10/2019 14:02	WG1235014
Carbon tetrachloride	U		0.00116	0.00538	1	02/10/2019 14:02	WG1235014
Chlorobenzene	U		0.000616	0.00269	1	02/10/2019 14:02	WG1235014
Chlorodibromomethane	U		0.000484	0.00269	1	02/10/2019 14:02	WG1235014
Chloroethane	U		0.00116	0.00538	1	02/10/2019 14:02	WG1235014
Chloroform	U		0.000446	0.00269	1	02/10/2019 14:02	WG1235014
Chloromethane	U		0.00149	0.0134	1	02/10/2019 14:02	WG1235014
2-Chlorotoluene	U		0.000989	0.00269	1	02/10/2019 14:02	WG1235014
4-Chlorotoluene	U		0.00121	0.00538	1	02/10/2019 14:02	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00548	0.0269	1	02/10/2019 14:02	WG1235014
1,2-Dibromoethane	U		0.000564	0.00269	1	02/10/2019 14:02	WG1235014
Dibromomethane	U		0.00108	0.00538	1	02/10/2019 14:02	WG1235014
1,2-Dichlorobenzene	U		0.00156	0.00538	1	02/10/2019 14:02	WG1235014
1,3-Dichlorobenzene	U		0.00183	0.00538	1	02/10/2019 14:02	WG1235014
1,4-Dichlorobenzene	U		0.00212	0.00538	1	02/10/2019 14:02	WG1235014
Dichlorodifluoromethane	U		0.000879	0.00269	1	02/10/2019 14:02	WG1235014
1,1-Dichloroethane	U		0.000618	0.00269	1	02/10/2019 14:02	WG1235014
1,2-Dichloroethane	U		0.000511	0.00269	1	02/13/2019 16:47	WG1235339
1,1-Dichloroethene	U		0.000538	0.00269	1	02/10/2019 14:02	WG1235014
cis-1,2-Dichloroethene	0.0743		0.000742	0.00269	1	02/10/2019 14:02	WG1235014
trans-1,2-Dichloroethene	0.00183	J J	0.00154	0.00538	1	02/10/2019 14:02	WG1235014
1,2-Dichloropropane	U		0.00137	0.00538	1	02/13/2019 16:47	WG1235339
1,1-Dichloropropene	U		0.000753	0.00269	1	02/10/2019 14:02	WG1235014
1,3-Dichloropropane	U		0.00188	0.00538	1	02/10/2019 14:02	WG1235014
cis-1,3-Dichloropropene	U		0.000729	0.00269	1	02/10/2019 14:02	WG1235014
trans-1,3-Dichloropropene	U		0.00164	0.00538	1	02/10/2019 14:02	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00151	0.00538	1	02/10/2019 14:02	WG1235014
2,2-Dichloropropane	U		0.000853	0.00269	1	02/10/2019 14:02	WG1235014
Di-isopropyl ether	U		0.000376	0.00108	1	02/10/2019 14:02	WG1235014
Ethylbenzene	U		0.000570	0.00269	1	02/10/2019 14:02	WG1235014
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	02/10/2019 14:02	WG1235014
2-Hexanone	U		0.0108	0.0269	1	02/10/2019 14:02	WG1235014
n-Hexane	U		0.00114	0.00538	1	02/10/2019 14:02	WG1235014
Iodomethane	U		0.00650	0.0134	1	02/10/2019 14:02	WG1235014
Isopropylbenzene	U		0.000928	0.00269	1	02/10/2019 14:02	WG1235014
p-Isopropyltoluene	U		0.00250	0.00538	1	02/10/2019 14:02	WG1235014
2-Butanone (MEK)	0.0166	J J	0.0134	0.0269	1	02/10/2019 14:02	WG1235014
Methylene Chloride	U		0.00714	0.0269	1	02/10/2019 14:02	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	02/10/2019 14:02	WG1235014

JC 3/7/19

A9C9-50

Collected date/time: 02/07/19 10:52

SAMPLE RESULTS - 08

L1068436

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.000357 J	J	0.000317	0.00108	1	02/10/2019 14:02	WG1235014
Naphthalene	U		0.00335	0.0134	1	02/10/2019 14:02	WG1235014
n-Propylbenzene	U		0.00127	0.00538	1	02/10/2019 14:02	WG1235014
Styrene	U		0.00293	0.0134	1	02/10/2019 14:02	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	02/10/2019 14:02	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000419	0.00269	1	02/10/2019 14:02	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000726	0.00269	1	02/10/2019 14:02	WG1235014
Tetrachloroethene	0.415		0.000753	0.00269	1	02/10/2019 14:02	WG1235014
Toluene	0.00174 J	J	0.00134	0.00538	1	02/10/2019 14:02	WG1235014
1,2,3-Trichlorobenzene	U		0.000672	0.00269	1	02/10/2019 14:02	WG1235014
1,2,4-Trichlorobenzene	U		0.00518	0.0134	1	02/10/2019 14:02	WG1235014
1,1,1-Trichloroethane	U		0.000296	0.00269	1	02/10/2019 14:02	WG1235014
1,1,2-Trichloroethane	U		0.000949	0.00269	1	02/10/2019 14:02	WG1235014
Trichloroethene	0.0656		0.000430	0.00108	1	02/10/2019 14:02	WG1235014
Trichlorofluoromethane	U		0.000538	0.00269	1	02/10/2019 14:02	WG1235014
1,2,3-Trichloropropane	U		0.00548	0.0134	1	02/10/2019 14:02	WG1235014
1,2,4-Trimethylbenzene	U		0.00125	0.00538	1	02/10/2019 14:02	WG1235014
1,2,3-Trimethylbenzene	U		0.00124	0.00538	1	02/10/2019 14:02	WG1235014
1,3,5-Trimethylbenzene	U		0.00116	0.00538	1	02/10/2019 14:02	WG1235014
Vinyl acetate	U		0.00378	0.0134	1	02/10/2019 14:02	WG1235014
Vinyl chloride	0.0124		0.000734	0.00269	1	02/10/2019 14:02	WG1235014
Xylenes, Total	U		0.00514	0.00699	1	02/10/2019 14:02	WG1235014
(S) Toluene-d8	*103*			*75.0-131*		*02/10/2019 14:02*	WG1235014
(S) Toluene-d8	*94.9*			*75.0-131*		*02/13/2019 16:47*	WG1235339
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2019 18:36*	WG1237248
(S) 4-Bromofluorobenzene	*99.5*			*67.0-138*		*02/10/2019 14:02*	WG1235014
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*02/13/2019 16:47*	WG1235339
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*02/14/2019 18:36*	WG1237248
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*02/10/2019 14:02*	WG1235014
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*		*02/13/2019 16:47*	WG1235339
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*02/14/2019 18:36*	WG1237248

JC 3/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.9		1	02/12/2019 18:01	WG1235876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0147	0.0269	1	02/14/2019 19:00	WG1237248
Acrylonitrile	U		0.00204	0.0135	1	02/10/2019 14:21	WG1235014
Benzene	0.000725 J	J	0.000431	0.00108	1	02/10/2019 14:21	WG1235014
Bromobenzene	U		0.00113	0.0135	1	02/10/2019 14:21	WG1235014
Bromodichloromethane	U		0.000848	0.00269	1	02/10/2019 14:21	WG1235014
Bromochloromethane	U		0.00122	0.00538	1	02/10/2019 14:21	WG1235014
Bromoform	U		0.00644	0.0269	1	02/10/2019 14:21	WG1235014
Bromomethane	U		0.00398	0.0135	1	02/10/2019 14:21	WG1235014
n-Butylbenzene	U		0.00413	0.0135	1	02/10/2019 14:21	WG1235014
sec-Butylbenzene	U		0.00272	0.0135	1	02/10/2019 14:21	WG1235014
tert-Butylbenzene	U		0.00167	0.00538	1	02/10/2019 14:21	WG1235014
Carbon disulfide	U		0.00437	0.0135	1	02/10/2019 14:21	WG1235014
Carbon tetrachloride	U		0.00116	0.00538	1	02/10/2019 14:21	WG1235014
Chlorobenzene	U		0.000617	0.00269	1	02/10/2019 14:21	WG1235014
Chlorodibromomethane	U		0.000484	0.00269	1	02/10/2019 14:21	WG1235014
Chloroethane	U		0.00116	0.00538	1	02/10/2019 14:21	WG1235014
Chloroform	U		0.000447	0.00269	1	02/10/2019 14:21	WG1235014
Chloromethane	U		0.00150	0.0135	1	02/10/2019 14:21	WG1235014
2-Chlorotoluene	U		0.000990	0.00269	1	02/10/2019 14:21	WG1235014
4-Chlorotoluene	U		0.00122	0.00538	1	02/10/2019 14:21	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0269	1	02/10/2019 14:21	WG1235014
1,2-Dibromoethane	U		0.000565	0.00269	1	02/10/2019 14:21	WG1235014
Dibromomethane	U		0.00108	0.00538	1	02/10/2019 14:21	WG1235014
1,2-Dichlorobenzene	U		0.00156	0.00538	1	02/10/2019 14:21	WG1235014
1,3-Dichlorobenzene	U		0.00183	0.00538	1	02/10/2019 14:21	WG1235014
1,4-Dichlorobenzene	U		0.00212	0.00538	1	02/10/2019 14:21	WG1235014
Dichlorodifluoromethane	U		0.000880	0.00269	1	02/10/2019 14:21	WG1235014
1,1-Dichloroethane	U		0.000619	0.00269	1	02/10/2019 14:21	WG1235014
1,2-Dichloroethane	U		0.000511	0.00269	1	02/13/2019 17:09	WG1235339
1,1-Dichloroethene	U		0.000538	0.00269	1	02/10/2019 14:21	WG1235014
cis-1,2-Dichloroethene	0.0869		0.000743	0.00269	1	02/10/2019 14:21	WG1235014
trans-1,2-Dichloroethene	0.00208 J	J	0.00154	0.00538	1	02/10/2019 14:21	WG1235014
1,2-Dichloropropane	U		0.00137	0.00538	1	02/13/2019 17:09	WG1235339
1,1-Dichloropropene	U		0.000753	0.00269	1	02/10/2019 14:21	WG1235014
1,3-Dichloropropane	U		0.00188	0.00538	1	02/10/2019 14:21	WG1235014
cis-1,3-Dichloropropene	U		0.000730	0.00269	1	02/10/2019 14:21	WG1235014
trans-1,3-Dichloropropene	U		0.00165	0.00538	1	02/10/2019 14:21	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00151	0.00538	1	02/10/2019 14:21	WG1235014
2,2-Dichloropropane	U		0.000854	0.00269	1	02/10/2019 14:21	WG1235014
Di-isopropyl ether	U		0.000377	0.00108	1	02/10/2019 14:21	WG1235014
Ethylbenzene	U		0.000570	0.00269	1	02/10/2019 14:21	WG1235014
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	02/10/2019 14:21	WG1235014
2-Hexanone	U		0.0108	0.0269	1	02/10/2019 14:21	WG1235014
n-Hexane	0.00505 U	~~B J~~	0.00114	0.00538	1	02/10/2019 14:21	WG1235014
Iodomethane	U		0.00651	0.0135	1	02/10/2019 14:21	WG1235014
Isopropylbenzene	U		0.000929	0.00269	1	02/10/2019 14:21	WG1235014
p-Isopropyltoluene	U		0.00251	0.00538	1	02/10/2019 14:21	WG1235014
2-Butanone (MEK)	0.0156 J	J	0.0135	0.0269	1	02/10/2019 14:21	WG1235014
Methylene Chloride	U		0.00715	0.0269	1	02/10/2019 14:21	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	02/10/2019 14:21	WG1235014

JC 3/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000318	0.00108	1	02/10/2019 14:21	WG1235014
Naphthalene	U		0.00336	0.0135	1	02/10/2019 14:21	WG1235014
n-Propylbenzene	U		0.00127	0.00538	1	02/10/2019 14:21	WG1235014
Styrene	U		0.00294	0.0135	1	02/10/2019 14:21	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	02/10/2019 14:21	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000420	0.00269	1	02/10/2019 14:21	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000727	0.00269	1	02/10/2019 14:21	WG1235014
Tetrachloroethene	0.387		0.000753	0.00269	1	02/10/2019 14:21	WG1235014
Toluene	0.00181 J	J	0.00135	0.00538	1	02/10/2019 14:21	WG1235014
1,2,3-Trichlorobenzene	U		0.000673	0.00269	1	02/10/2019 14:21	WG1235014
1,2,4-Trichlorobenzene	U		0.00519	0.0135	1	02/10/2019 14:21	WG1235014
1,1,1-Trichloroethane	U		0.000296	0.00269	1	02/10/2019 14:21	WG1235014
1,1,2-Trichloroethane	U		0.000950	0.00269	1	02/10/2019 14:21	WG1235014
Trichloroethene	0.0732		0.000431	0.00108	1	02/10/2019 14:21	WG1235014
Trichlorofluoromethane	U		0.000538	0.00269	1	02/10/2019 14:21	WG1235014
1,2,3-Trichloropropane	U		0.00549	0.0135	1	02/10/2019 14:21	WG1235014
1,2,4-Trimethylbenzene	U		0.00125	0.00538	1	02/10/2019 14:21	WG1235014
1,2,3-Trimethylbenzene	U		0.00124	0.00538	1	02/10/2019 14:21	WG1235014
1,3,5-Trimethylbenzene	U		0.00116	0.00538	1	02/10/2019 14:21	WG1235014
Vinyl acetate	U		0.00379	0.0135	1	02/10/2019 14:21	WG1235014
Vinyl chloride	0.0181		0.000735	0.00269	1	02/10/2019 14:21	WG1235014
Xylenes, Total	U		0.00514	0.00700	1	02/10/2019 14:21	WG1235014
(S) Toluene-d8	*101*			*75.0-131*		*02/10/2019 14:21*	WG1235014
(S) Toluene-d8	*99.1*			*75.0-131*		*02/13/2019 17:09*	WG1235339
(S) Toluene-d8	*104*			*75.0-131*		*02/14/2019 19:00*	WG1237248
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*		*02/10/2019 14:21*	WG1235014
(S) 4-Bromofluorobenzene	*93.4*			*67.0-138*		*02/13/2019 17:09*	WG1235339
(S) 4-Bromofluorobenzene	*98.5*			*67.0-138*		*02/14/2019 19:00*	WG1237248
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*02/10/2019 14:21*	WG1235014
(S) 1,2-Dichloroethane-d4	*89.9*			*70.0-130*		*02/13/2019 17:09*	WG1235339
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*02/14/2019 19:00*	WG1237248

JC 3/7/19

TB-020719

Collected date/time: 02/07/19 09:35

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.08	J	1.05	25.0	1	02/10/2019 01:35	WG1234855
Acrylonitrile	U		0.873	5.00	1	02/10/2019 01:35	WG1234855
Benzene	U		0.0896	0.500	1	02/10/2019 01:35	WG1234855
Bromobenzene	U		0.133	0.500	1	02/10/2019 01:35	WG1234855
Bromodichloromethane	U		0.0800	0.500	1	02/10/2019 01:35	WG1234855
Bromochloromethane	U		0.145	0.500	1	02/10/2019 01:35	WG1234855
Bromoform	U		0.186	0.500	1	02/10/2019 01:35	WG1234855
Bromomethane	U		0.157	2.50	1	02/10/2019 01:35	WG1234855
n-Butylbenzene	U		0.143	0.500	1	02/10/2019 01:35	WG1234855
sec-Butylbenzene	U		0.134	0.500	1	02/10/2019 01:35	WG1234855
tert-Butylbenzene	U		0.183	0.500	1	02/10/2019 01:35	WG1234855
Carbon disulfide	U		0.101	0.500	1	02/10/2019 01:35	WG1234855
Carbon tetrachloride	U		0.159	0.500	1	02/10/2019 01:35	WG1234855
Chlorobenzene	U		0.140	0.500	1	02/10/2019 01:35	WG1234855
Chlorodibromomethane	U		0.128	0.500	1	02/10/2019 01:35	WG1234855
Chloroethane	U		0.141	2.50	1	02/10/2019 01:35	WG1234855
Chloroform	U		0.0860	0.500	1	02/10/2019 01:35	WG1234855
Chloromethane	U		0.153	1.25	1	02/10/2019 01:35	WG1234855
2-Chlorotoluene	U		0.111	0.500	1	02/10/2019 01:35	WG1234855
4-Chlorotoluene	U		0.0972	0.500	1	02/10/2019 01:35	WG1234855
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/10/2019 01:35	WG1234855
1,2-Dibromoethane	U		0.193	0.500	1	02/10/2019 01:35	WG1234855
Dibromomethane	U		0.117	0.500	1	02/10/2019 01:35	WG1234855
1,2-Dichlorobenzene	U		0.101	0.500	1	02/10/2019 01:35	WG1234855
1,3-Dichlorobenzene	U		0.130	0.500	1	02/10/2019 01:35	WG1234855
1,4-Dichlorobenzene	U		0.121	0.500	1	02/10/2019 01:35	WG1234855
Dichlorodifluoromethane	U		0.127	2.50	1	02/10/2019 01:35	WG1234855
1,1-Dichloroethane	U		0.114	0.500	1	02/10/2019 01:35	WG1234855
1,2-Dichloroethane	U		0.108	0.500	1	02/10/2019 01:35	WG1234855
1,1-Dichloroethene	U		0.188	0.500	1	02/10/2019 01:35	WG1234855
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/10/2019 01:35	WG1234855
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/10/2019 01:35	WG1234855
1,2-Dichloropropane	U		0.190	0.500	1	02/10/2019 01:35	WG1234855
1,1-Dichloropropene	U		0.128	0.500	1	02/10/2019 01:35	WG1234855
1,3-Dichloropropane	U		0.147	1.00	1	02/10/2019 01:35	WG1234855
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/10/2019 01:35	WG1234855
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/10/2019 01:35	WG1234855
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/10/2019 01:35	WG1234855
2,2-Dichloropropane	U		0.0929	0.500	1	02/10/2019 01:35	WG1234855
Di-isopropyl ether	U		0.0924	0.500	1	02/10/2019 01:35	WG1234855
Ethylbenzene	U		0.158	0.500	1	02/10/2019 01:35	WG1234855
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/10/2019 01:35	WG1234855
2-Hexanone	U		0.757	5.00	1	02/10/2019 01:35	WG1234855
n-Hexane	U		0.305	5.00	1	02/10/2019 01:35	WG1234855
Iodomethane	U		0.377	10.0	1	02/10/2019 01:35	WG1234855
Isopropylbenzene	U		0.126	0.500	1	02/10/2019 01:35	WG1234855
p-Isopropyltoluene	U		0.138	0.500	1	02/10/2019 01:35	WG1234855
2-Butanone (MEK)	U		1.28	5.00	1	02/10/2019 01:35	WG1234855
Methylene Chloride	U		1.07	2.50	1	02/10/2019 01:35	WG1234855
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/10/2019 01:35	WG1234855
Methyl tert-butyl ether	U		0.102	0.500	1	02/10/2019 01:35	WG1234855
Naphthalene	U		0.174	2.50	1	02/10/2019 01:35	WG1234855
n-Propylbenzene	U		0.162	0.500	1	02/10/2019 01:35	WG1234855
Styrene	U		0.117	0.500	1	02/10/2019 01:35	WG1234855
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/10/2019 01:35	WG1234855
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/10/2019 01:35	WG1234855

JC 3/7/19

TB-020719

Collected date/time: 02/07/19 09:35

SAMPLE RESULTS - 10

L1068436

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/10/2019 01:35	WG1234855
Tetrachloroethene	U		0.199	0.500	1	02/10/2019 01:35	WG1234855
Toluene	U		0.412	0.500	1	02/10/2019 01:35	WG1234855
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/10/2019 01:35	WG1234855
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/10/2019 01:35	WG1234855
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/10/2019 01:35	WG1234855
1,1,2-Trichloroethane	U		0.186	0.500	1	02/10/2019 01:35	WG1234855
Trichloroethene	U		0.153	0.500	1	02/10/2019 01:35	WG1234855
Trichlorofluoromethane	U		0.130	2.50	1	02/10/2019 01:35	WG1234855
1,2,3-Trichloropropane	U		0.247	2.50	1	02/10/2019 01:35	WG1234855
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/10/2019 01:35	WG1234855
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/10/2019 01:35	WG1234855
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/10/2019 01:35	WG1234855
Vinyl acetate	U UJ	J0	0.645	5.00	1	02/10/2019 01:35	WG1234855
Vinyl chloride	U		0.118	0.500	1	02/10/2019 01:35	WG1234855
Xylenes, Total	U		0.316	1.50	1	02/10/2019 01:35	WG1234855
(S) Toluene-d8	*101*			*80.0-120*		*02/10/2019 01:35*	WG1234855
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*02/10/2019 01:35*	WG1234855
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*02/10/2019 01:35*	WG1234855

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 3/7/19

MEMORANDUM

TO: Project File **DATE:** March 26, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.601

TASK: EIM Data Validation Level EPA2A for December 2018 through February 2019 - Groundwater Samples

LAB: Pace Sample Delivery Groups (SDGs): L1055718, L1057965, L1063581, L1063697, L1064133, L1064711, L1064837, L1065152, L1065595, L1066228, and L1068057

Fifty-eight (58) groundwater samples including two field duplicates, two (2) equipment blanks, and eleven (11) trip blanks were collected as Round 3 Interim Action Compliance Monitoring sampling event at the Former American Linen Supply Site, in Seattle, Washington, on December 21, 2018 to February 7, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (Chloride, Nitrate, and Sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020A.

The sampling event is ongoing and associated groundwater sample data are reported in eleven Pace SDGs (L1055718, L1057965, L1063581, L1063697, L1064133, L1064711, L1064837, L1065152, L1065595, L1066228, and L1068057). The quality assurance review of the sample data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory

Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested with the following discussions:

- SDG L1055718: Review of the chain of custody (COC) form shows that no analytical request was made for the Trip Blank. The Trip Blank was analyzed for VOCs though no communications are included. No action was taken other than to note this.

- SDG L1063581: Review of the COC form shows that the Trip Blank was not listed. On January 22, 2019 PES contacted Pace with a corrected copy of the COC which included the Trip Blank and request for analysis. A copy of PES's email communication is included in the laboratory report.

- SDG L1065595: Review of the COC form and email communications between Pace and PES indicate that per client request sample MW-149-013019 (SDG L1065595-07) should not be analyzed. PES email shows sample MW-**14**-013019 instead of sample MW-**149**-013019 but no action is necessary since the correct Pace number (SDG L1065595-07) was referenced.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria were met.

NWTPH-Gx Method:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

USEPA Method 6020A:
All samples were analyzed within the USEPA recommended holding time for arsenic of 180 days for preserved waters from the date of sample collection. All holding time criteria were met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria were met with the following exception:

- SDG L1064711: Nitrate was analyzed two days past the recommended holding time. **Nitrate results for samples MW-160-012519, W-MW-02-012519, MW-161-012519, and W-MW-01-012519 are estimated and qualified (UJ/J) due to a holding time exceedance.**

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however Pace's notes indicate the following:

- SDG L1057965 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issue is noted by Pace for trans-1,4-dichloro-2-butene associated with analytical batch WG1219077 (analyzed on January 4, 2019). Associated sample results for this compound are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated sample trans-1,4-dichloro-2-butene results are estimated and qualified (UJ/J).**

- SDG L1064133 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues are noted by Pace for acetone, trans-1,4-dichloro-2-butene, and 1,2,3-trimethylbenzene associated with analytical batches WG1228529 and WG1229442 (analyzed on January 25 and 28, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results for these compounds are estimated and qualified (UJ/J).**

- SDG L1064711 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for 1,1,2,2-tetrachloroethane and vinyl acetate associated with, respectively, analytical batches WG1229314 and WG1229419 (both analyzed on January 28, 2018). Associated sample results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1065595 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by PACE for multiple compounds associated with analytical batch WG1231554 (analyzed on February 1, 2019). Associated sample results for this compound are qualified by the laboratory “J0” to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results for these compounds are estimated and qualified (UJ/J).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1055718 - Analytical batch WG1215942: Low levels of naphthalene and 1,2,4-trimethylbenzene are detected in the method blank. No action was necessary since these compounds are not detected in the associated sample (MW-112-122118). A low level of naphthalene was detected in the Trip Blank. Refer to the Trip Blank section for more discussion.

- SDG L1057965 - Analytical batch WG1219077: A low level of naphthalene is detected in the method blank. No action was necessary since naphthalene is not detected in the associated sample.

- SDGs L1063581 and L1063697 - Analytical batch WG1227840: A low level of naphthalene is detected in the method blank. No action was necessary since naphthalene is not detected in the associated samples.

- SDG L1063697 - Analytical batch WG1228162: Low levels of cis-1,2-dichloroethene, hexachloro-1,3-butadiene, naphthalene, and 1,2,3-trichlorobenzene are detected in the method blank. Associated results are not qualified for the following reasons:

    - No action is necessary for hexachloro-1,3-butadiene, naphthalene, and 1,2,3-trichlorobenzene since these compounds are not detected in the associated samples.

    - No action is taken for the cis-1,2-dichloroethene detection in sample MW-905-012319 as the result is far greater than the detection in the associated blank.

    - No action was taken for cis-1,2-dichloroethene detection in the associated QC sample (Trip Blank) as is it is not required.

- SDG L1064133 - Analytical batch WG1228529: A low level of naphthalene is detected in the method blank. No action was necessary since naphthalene is not detected in the associated samples.

- SDG L1064837 - Analytical batch WG1229700: A low level of chloroform is detected in the method blank. No action was necessary since this compound is not detected in the associated samples.

- SDGs L1065152 and L1065595 - Analytical batch WG1231554: Low levels of chloroform and hexachloro-1,3-butadiene are detected in the method blank. No action was necessary since these compounds are not detected in the associated samples.

- SDG L1066228 - Analytical batch WG1231972: A low level of tetrachloroethene is detected in the method blank. No action was necessary since this compound is either detected above the detection in the blank or not detected in the associated samples.

- SDG L1068057 – Analytical batch WG1234600: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since this compound is either detected above the detection in the blank or not detected in the associated samples.

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exception:

- SDG L1064837 - Analytical batch WG1230033: Gasoline is detected at a low level (below the RDL) in the method blank. No action was taken since gasoline is not detected in associated samples.

- SDG L1066228 - Analytical batches WG1231937, WG1234228, and WG1234465: Gasoline is detected at a low level (below the RDL) in the method blanks. **Gasoline results in samples MW-121-013119, MW-137-020119, MW-136-020119, and MW-133-020119 are detected below the RDL are qualified (U) as non-detects due to blank contamination.**

- SDG L1068057 – Analytical batch WG1234480: Gasoline is detected at a low level (below the RDL) in the method blank. No action was taken since gasoline is detected at a level significantly greater than the associated sample.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020A and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL.

SDG	Batch	Method	Analyte	Result	Qualifier	MRL	Units	Associated Result(s) Qualified
L1055718	WG1218198	SM2320B	Alkalinity as CaCO3, Total	3390	J	20000	ug/L	NO
L1055718	WG1218534	9060A	TOC	141	J	1000	ug/L	NO
L1057965	WG1220272	SM2320B	Alkalinity as CaCO3, Total	4960	J	20000	ug/L	NO
L1057965	WG1220033	9060A	TOC	156	J	1000	ug/L	NO
L1063581	WG1228020	SM2320B	Alkalinity as CaCO3, Total	2880	J	20000	ug/L	NO
L1063581	WG1227775	9060A	TOC	258	J	1000	ug/L	NO
L1063581	WG1229248	9060A	TOC	222	J	1000	ug/L	NO
L1063581	WG1227051	6020B	Iron	17.4	J	100	ug/L	NO
L1063697	WG1229337	SM2320B	Alkalinity as CaCO3, Total	7300	J	20000	ug/L	NO
L1063697	WG1229248	9060A	TOC	222	J	1000	ug/L	NO
L1064133	WG1228505	SM2320B	Alkalinity as CaCO3, Total	3070	J	20000	ug/L	NO
L1064133	WG1229248	9060A	TOC	222	J	1000	ug/L	NO
L1064133	WG1228813	6020B	Iron	22.2	J	100	ug/L	NO
L1064711	WG1229541	9060A	TOC	196	J	1000	ug/L	NO
L1064711	WG1228505	SM2320B	Alkalinity as CaCO3, Total	3070	J	20000	ug/L	NO
L1064711	WG1229248	9060A	TOC	222	J	1000	ug/L	NO
L1064837	WG1230036	6020B	Iron	83.1	J	100	ug/L	NO
L1064837	WG1230036	6020B	Manganese	0.650	J	5.00	ug/L	NO
L1064837	WG1229541	9060A	TOC	196	J	1000	ug/L	NO
L1064837	WG1230371	SM2320B	Alkalinity as CaCO3, Total	4270	J	20000	ug/L	NO
L1065152	WG1230357	9060A	TOC	232	J	1000	ug/L	NO
L1065152	WG1231115	SM2320B	Alkalinity as CaCO3, Total	3150	J	20000	ug/L	NO
L1065595	WG1230357	9060A	TOC	232	J	1000	ug/L	NO
L1066228	WG1233465	SM2320B	Alkalinity as CaCO3, Total	3040	J	20000	ug/L	NO
L1066228	WG1231328	9060A	TOC	133	J	1000	ug/L	NO
L1068057	WG1234334	9060A	TOC	133	J	1000	ug/L	NO
L1068057	WG1235757	6020B	Iron	28.3	J	100	ug/L	NO

Trip Blank Results

USEPA Method 8260C and NWTPH-Gx:
Eleven trip blanks were collected and submitted for analysis. The target analytes were not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1055718 - Analytical batch WG1215942: Low levels of benzene, naphthalene and trichloroethene are detected in the trip blank. No action was necessary as these compounds are not detected in the associated sample.

- SDG L1064711 – Analytical batch WG1229314: Low levels of acetone and naphthalene are detected in the trip blank. No action was necessary as these compounds were not detected in the associated samples.

- SDG L1063697 - Analytical batch WG1228162: Low levels of cis-1,2-dichloroethene and toluene are detected in the trip blank. No action is taken for cis-1,2-dichloroethene or toluene since associated sample concentrations are either greater than the RDL or not detected.

- SDG L1064133 - Analytical batch WG1228529: A low level of toluene is detected in the trip blank. No action was necessary as this compound was not detected in the associated samples.

- SDG L1065152: Analytical batch WG1231554: Toluene is detected in the trip blank at 1.29 ug/L and greater than the RDL of 0.500 ug/L. Toluene was detected at 0.516 ug/L in sample MW-131-012919. **Per Guidance, professional judgement was used and the toluene detection in sample MW-131-012919 is qualified with high bias (J+) due to trip blank contamination.**

- SDG L1064837 - Analytical batch WG1230033: Gasoline is detected at a low level (below the RDL) in the trip blank. No action was necessary as this compound was not detected in the associated samples.

- SDG L1064837 - Analytical batch WG1229700: Acetone and toluene are detected at a low level (below the RDL) in the trip blank. **Associated acetone detections in samples MW-142-012819, MW-906-012819, MW-139-012819, and MW-134-012819 are qualified as not detected (U).** No action was needed for toluene since it was not detected in the associated samples.

- SDG L1065595: Analytical batch WG1231554: Toluene is detected in the trip blank at 0.700 ug/L and greater than the RDL of 0.500 ug/L. Toluene was detected at 0.715 ug/L a similar level in sample MW-107-013019. **Per Guidance, professional judgement was used and the toluene detection in sample MW-107-013019 is estimated with high bias (J+) due to trip blank contamination.**

- SDG L1066228 - Analytical batch WG1231972: Toluene and trichloroethene are detected in the trip blank at low levels above and below respective RDLs. **Trichloroethene was detected in sample MW-136-020119 below the RDL and is estimated and qualified (U) as not detected. Toluene is detected in samples MW-130-013119, MW-152-013119, and MW-135-013119. Toluene results for these samples are estimated with high bias (J+) due to trip blank contamination.**

- SDG L1068057 – Analytical batch WG1234600: 1,2,4-Trimethylbenzene is detected at a low level (below the RDL) in the trip blank. No action was necessary as this compound is not detected in the associated sample.

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:
Two equipment blanks (EQ-012319 and EQ-013019) were collected and analyzed for VOCs, gasoline, dissolved gases (methane, ethane, and ethene), wet chemistry parameters (alkalinity,

chloride, nitrate, sulfate, and TOC), and metals (iron and manganese). Review of the two equipment blank results are as follows:

SDG L1063697: Equipment blank sample (EQ-012319) was collected on January 23, 2019 from the bladder pump and is associated with samples MW-148-012319 and MW-105-012319. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

- Low levels of acetone and chloroform (below the RDL) are detected in the equipment blank. No action was needed for chloroform as it was not detected in the associated samples. **Sample MW-148-012319 and MW-105-012319 acetone detections are less than the RDL and are qualified (U) as not detected due to equipment blank contamination.** Low levels of alkalinity, chloride, nitrate, TOC, iron and manganese were also detected in the equipment blank. No action was taken on this basis since associated detections in sample MW-105-012319 are either above the RDL or not detected.

SDG L1065595: Equipment blank sample (EQ-013019) was collected on January 30, 2019 from the bladder pump and is associated with samples MW-116-013019 and MW-141-013019. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

- Low levels of bromodichloromethane and chloroform are detected (below the RDL) in the equipment blank. No action was needed for these compounds as these were not detected in the associated samples. Low levels of alkalinity, chloride, nitrate, TOC, iron and manganese were also detected in the equipment blank. No action was taken on this basis since remaining parameters were not analyzed for in associated samples MW-116-013019 and MW-141-013019.

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1063697: Samples MW-110-012319 and MW-905-012319
- SDG L1064837: Samples MW-142-012819 and MW-906-012819

VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% for the field duplicate pair.

Laboratory Duplicate Analyses

USEPA Method 8260C:

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

NWTPH-Gx Method:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020A:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
A laboratory duplicate sample was performed on client samples and on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blank, and the method blanks are within the laboratory surrogate control limits for all the analyses with the following exception:

- L1066228: Sample MW-135-013119 surrogate (toluene-d8) recovery (analytical batch WG1231972) is above laboratory control limit criteria. All associated positively detected results associated with analytical batch WG1231972 are estimated and qualified (J) due to the elevated surrogate recovery. Refer to sections on Trip Blank and Other Quality Control Issues for additional information on the toluene and 1,1-dichloroethene.

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blank, and the method blanks are within the laboratory surrogate control limits for all analyses.

Laboratory Control Samples

USEPA Method 8260C:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS %Rs or

LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions and exceptions:

- SDG L1063697 - Analytical batch WG1228162: LCS/LCSD recoveries for acetone are above control limit criteria and laboratory qualified (J4). No action is required since this compound is not detected in the associated sample (MW-905-012319). Acetone was detected at a low level in the equipment blank (EQ-12319). For further discussion refer to the section under the Field, Rinsate, or Equipment Blank Results.

- SDG L1064133 - Analytical batch WG1228529: LCS/LCSD recoveries for 1,2,3-trimethylbenzene are below control limit criteria and laboratory qualified (J4). **All associated sample results for 1,2,3-trimethylbenzene are already estimated and qualified (UJ/J) due to poor CCV recoveries with one exception. Sample MW-157-012419 1,2,3-trimethylbenzene result is estimated and qualified (UJ) due to low LCS/LCSD recoveries.**

- SDGs L1065152 and L1065595 - Analytical batch WG1231554: LCS/LCSD recoveries for 1,2,3-trimethylbenzene are below control limit criteria and laboratory qualified (J4). All associated sample results for 1,2,3-trimethylbenzene are already estimated and qualified (UJ/J) due to poor CCV recoveries. No further action is required.

- SDG L1068057 – Analytical batch WG1234600: LCS/LCSD recoveries for acetone and iodomethane (methyl iodide) are within criteria but were recovered wide and qualified (J3) by the laboratory. No action is taken since LCS/LCSD recoveries are within.

NWTPH-Gx Method:

The LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD %Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020A:
The LCS/LCSD %Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS or LCS/LCSD %Rs and RPDs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and/or field duplicate data for accuracy and precision data.

NWTPH-Gx Method:
MS/MSD analyses were performed on client or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data.

USEPA Method 6020A:
MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDG L1064711 - Analytical batch WG1229560: MS/MSD was performed on sample W-MW-01-012519. Sample W-MW-01-012519 sulfate MS/MSD results are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that duplicate and LCS results are within criteria and that the sample concentration is within the calibration range.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- SDG L1063697: A serial dilution was performed on sample BB-8-012319 and acceptance criteria were not met (laboratory qualified O1). Sample BB-8-012319 manganese result is estimated and qualified (J) due to the poor serial dilution result.

- SDG L1066228 - Analytical batch WG1231972: Sample MW-135-013119 1,1-dichloroethene results are qualified (E) by the laboratory to indicate that reported result exceeded the upper calibration range. **Sample MW-135-013119 1,1-dichloroethene is estimated and qualified (J) because the result is greater than the upper calibration range.**

- Multiple SDGs: Sample narratives for certain alkalinity results indicate that sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

PES requested additional supporting data from Pace on select sample results due to high gasoline range organic results which coincide with elevated chlorinated VOC results greater than the RDL in fifteen samples. Per Pace, certain chlorinated VOC compounds (including cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, and trichloroethene) elute within the gasoline retention time range, are considered gasoline range organics due to the elution time, and therefore likely contribute to the gasoline range organic result. Chromatograms were reviewed by Pace and PES to compare gasoline patterns with sample results. Based on this review no discernible gasoline patterns were reported. **All gasoline range organic results above the RDL are qualified as estimated with possible high bias (J+).** Qualified samples are as follows:

Sample Identification	Laboratory Identification	Result Parameter Name	Result Value (µg/L)	Qualified Result	Sample Chromatogram matches Gasoline Standard?
MW-107-013019	L1065595-01	Gasoline Range Organics	663	J+	No discernable gasoline pattern
MW-149-012919	L1065152-03	Gasoline Range Organics	14400	J+	No discernable gasoline pattern
MW-150-012919	L1065152-05	Gasoline Range Organics	11900	J+	No discernable gasoline pattern
MW-120-012419	L1064133-05	Gasoline Range Organics	105	J+	No discernable gasoline pattern
MW-156-012419	L1064133-04	Gasoline Range Organics	1480	J+	No discernable gasoline pattern
MW-157-012419	L1064133-03	Gasoline Range Organics	1870	J+	No discernable gasoline pattern
MW-146-012219	L1063581-09	Gasoline Range Organics	509	J+	No discernable gasoline pattern
MW-147-012219	L1063581-08	Gasoline Range Organics	663	J+	No discernable gasoline pattern
MW-130-013119	L1066228-01	Gasoline Range Organics	22400	J+	No discernable gasoline pattern
MW-152-013119	L1066228-02	Gasoline Range Organics	44300	J+	No discernable gasoline pattern
MW-135-013119	L1066228-05	Gasoline Range Organics	42700	J+	No discernable gasoline pattern
MW-113-020719	L1068057-01	Gasoline Range Organics	3100	J+	No discernable gasoline pattern

SDG L1066228: Three sample results (MW-151-013119, MW-132-013119, and MW-104-02119) and associated chromatograms were overlooked during the review. **Based on the gasoline and chlorinated VOC results these sample results are estimated with possible high bias (J+) due to the possible contribution of chlorinated VOCs within the elution range.**

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. Though no action is taken other than to note that Pace sample narrative notes indicate that VOC target compounds were too high to run at lower dilution for seven (including a field duplicate) samples.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	302000		2710	20000	1	01/25/2019 15:03	WG1228020

Sample Narrative:

L1063581-08 WG1228020: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	56200		51.9	1000	1	01/23/2019 20:30	WG1227335
Nitrate	U		22.7	100	1	01/23/2019 20:30	WG1227335
Sulfate	43200		77.4	5000	1	01/23/2019 20:30	WG1227335

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5200		102	1000	1	01/28/2019 16:27	WG1229248

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	6010		15.0	100	1	01/24/2019 18:01	WG1227051
Manganese	646		0.250	5.00	1	01/24/2019 18:01	WG1227051

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	663 J +		31.6	100	1	01/24/2019 06:39	WG1227572
(S) a,a,a-Trifluorotoluene(FID)	*95.0*			*78.0-120*		*01/24/2019 06:39*	WG1227572

JC 3/19/19 & JC 3/26/19

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	4210		0.287	0.678	1	01/25/2019 12:13	WG1227529
Ethane	2.10		0.296	1.29	1	01/25/2019 12:13	WG1227529
Ethene	100		0.422	1.27	1	01/25/2019 12:13	WG1227529

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.51 J	J	1.05	25.0	1	01/24/2019 15:01	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 15:01	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 15:01	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 15:01	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 15:01	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 15:01	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 15:01	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 15:01	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 15:01	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 15:01	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 15:01	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 15:01	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 15:01	WG1227840

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 15:01	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 15:01	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 15:01	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 15:01	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 15:01	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 15:01	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 15:01	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 15:01	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 15:01	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 15:01	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 15:01	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 15:01	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 15:01	WG1227840
1,1-Dichloroethene	6.83		0.188	0.500	1	01/24/2019 15:01	WG1227840
cis-1,2-Dichloroethene	1230		0.933	5.00	10	01/27/2019 21:34	WG1228835
trans-1,2-Dichloroethene	2.88		0.152	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 15:01	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 15:01	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 15:01	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 15:01	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 15:01	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 15:01	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 15:01	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 15:01	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 15:01	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 15:01	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 15:01	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 15:01	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 15:01	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 15:01	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 15:01	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 15:01	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 15:01	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 15:01	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 15:01	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 15:01	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 15:01	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 15:01	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 15:01	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 15:01	WG1227840
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 15:01	WG1227840
Tetrachloroethene	98.2		0.199	0.500	1	01/24/2019 15:01	WG1227840
Toluene	U		0.412	0.500	1	01/24/2019 15:01	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 15:01	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 15:01	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 15:01	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 15:01	WG1227840
Trichloroethene	179		0.153	0.500	1	01/24/2019 15:01	WG1227840
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 15:01	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 15:01	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 15:01	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 15:01	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 15:01	WG1227840

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 15:01	WG1227840
Vinyl chloride	738		1.18	5.00	10	01/27/2019 21:34	WG1228835
Xylenes, Total	U		0.316	1.50	1	01/24/2019 15:01	WG1227840
(S) Toluene-d8	*106*			*80.0-120*		*01/27/2019 21:34*	WG1228835
(S) Dibromofluoromethane	*99.6*			*75.0-120*		*01/27/2019 21:34*	WG1228835
(S) 4-Bromofluorobenzene	*89.5*			*77.0-126*		*01/27/2019 21:34*	WG1228835
(S) Toluene-d8	*99.3*			*80.0-120*		*01/24/2019 15:01*	WG1227840
(S) Dibromofluoromethane	*104*			*75.0-120*		*01/24/2019 15:01*	WG1227840
(S) a,a,a-Trifluorotoluene	*91.6*			*80.0-120*		*01/24/2019 15:01*	WG1227840
(S) 4-Bromofluorobenzene	*95.0*			*77.0-126*		*01/24/2019 15:01*	WG1227840

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.54 J	J	1.05	25.0	1	01/24/2019 16:20	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 16:20	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 16:20	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 16:20	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 16:20	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 16:20	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 16:20	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 16:20	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 16:20	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 16:20	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 16:20	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 16:20	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 16:20	WG1227840
Chlorobenzene	U		0.140	0.500	1	01/24/2019 16:20	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 16:20	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 16:20	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 16:20	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 16:20	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 16:20	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 16:20	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 16:20	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 16:20	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 16:20	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 16:20	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 16:20	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 16:20	WG1227840
1,1-Dichloroethene	0.739		0.188	0.500	1	01/24/2019 16:20	WG1227840
cis-1,2-Dichloroethene	403		0.466	2.50	5	01/27/2019 22:35	WG1228835
trans-1,2-Dichloroethene	2.08		0.152	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 16:20	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 16:20	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 16:20	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 16:20	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 16:20	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 16:20	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 16:20	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 16:20	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 16:20	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 16:20	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 16:20	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 16:20	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 16:20	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 16:20	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 16:20	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 16:20	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 16:20	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 16:20	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 16:20	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 16:20	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 16:20	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 16:20	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 16:20	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 16:20	WG1227840

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 16:20	WG1227840
Tetrachloroethene	U		0.995	2.50	5	01/27/2019 22:35	WG1228835
Toluene	U		0.412	0.500	1	01/24/2019 16:20	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 16:20	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 16:20	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 16:20	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 16:20	WG1227840
Trichloroethene	43.8		0.765	2.50	5	01/27/2019 22:35	WG1228835
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 16:20	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 16:20	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 16:20	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 16:20	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 16:20	WG1227840
Vinyl acetate	U		0.645	5.00	1	01/24/2019 16:20	WG1227840
Vinyl chloride	36.8		0.118	0.500	1	01/24/2019 16:20	WG1227840
Xylenes, Total	U		0.316	1.50	1	01/24/2019 16:20	WG1227840
(S) Toluene-d8	*105*			*80.0-120*		*01/27/2019 22:35*	WG1228835
(S) Dibromofluoromethane	*97.4*			*75.0-120*		*01/27/2019 22:35*	WG1228835
(S) 4-Bromofluorobenzene	*85.0*			*77.0-126*		*01/27/2019 22:35*	WG1228835
(S) Toluene-d8	*101*			*80.0-120*		*01/24/2019 16:20*	WG1227840
(S) Dibromofluoromethane	*101*			*75.0-120*		*01/24/2019 16:20*	WG1227840
(S) a,a,a-Trifluorotoluene	*96.4*			*80.0-120*		*01/24/2019 16:20*	WG1227840
(S) 4-Bromofluorobenzene	*93.4*			*77.0-126*		*01/24/2019 16:20*	WG1227840

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	151000		2710	20000	1	01/29/2019 13:42	WG1229337

Sample Narrative:

L1063697-02 WG1229337: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	17700		51.9	1000	1	01/24/2019 17:29	WG1227809
Nitrate	U		22.7	100	1	01/24/2019 17:29	WG1227809
Sulfate	154000		387	25000	5	01/25/2019 08:39	WG1227809

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4040	B	204	2000	2	01/28/2019 17:11	WG1229248

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	10100		15.0	100	1	01/28/2019 01:13	WG1228207
Manganese	594		0.250	5.00	1	01/28/2019 01:13	WG1228207

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 20:03	WG1227701
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*01/24/2019 20:03*	WG1227701

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1390		0.287	0.678	1	01/25/2019 14:13	WG1227529
Ethane	U		0.296	1.29	1	01/25/2019 14:13	WG1227529
Ethene	2.84		0.422	1.27	1	01/25/2019 14:13	WG1227529

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.90 U	~~J~~	1.05	25.0	1	01/24/2019 16:40	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 16:40	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 16:40	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 16:40	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 16:40	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 16:40	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 16:40	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 16:40	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 16:40	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 16:40	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 16:40	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 16:40	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 16:40	WG1227840

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 16:40	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 16:40	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 16:40	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 16:40	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 16:40	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 16:40	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 16:40	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 16:40	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 16:40	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 16:40	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 16:40	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 16:40	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 16:40	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 16:40	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 16:40	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 16:40	WG1227840
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 16:40	WG1227840
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/27/2019 21:14	WG1228835
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 16:40	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 16:40	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 16:40	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 16:40	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 16:40	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 16:40	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 16:40	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 16:40	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 16:40	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 16:40	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 16:40	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 16:40	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 16:40	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 16:40	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 16:40	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 16:40	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 16:40	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 16:40	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 16:40	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 16:40	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 16:40	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 16:40	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 16:40	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 16:40	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 16:40	WG1227840
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 16:40	WG1227840
Tetrachloroethene	1.24		0.199	0.500	1	01/24/2019 16:40	WG1227840
Toluene	U		0.412	0.500	1	01/24/2019 16:40	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 16:40	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 16:40	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 16:40	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 16:40	WG1227840
Trichloroethene	0.347 J	J	0.153	0.500	1	01/24/2019 16:40	WG1227840
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 16:40	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 16:40	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 16:40	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 16:40	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 16:40	WG1227840

JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 16:40	WG1227840
Vinyl chloride	U		0.118	0.500	1	01/24/2019 16:40	WG1227840
Xylenes, Total	U		0.316	1.50	1	01/24/2019 16:40	WG1227840
(S) Toluene-d8	*108*			*80.0-120*		*01/27/2019 21:14*	WG1228835
(S) Dibromofluoromethane	*94.6*			*75.0-120*		*01/27/2019 21:14*	WG1228835
(S) 4-Bromofluorobenzene	*87.5*			*77.0-126*		*01/27/2019 21:14*	WG1228835
(S) Toluene-d8	*100*			*80.0-120*		*01/24/2019 16:40*	WG1227840
(S) Dibromofluoromethane	*104*			*75.0-120*		*01/24/2019 16:40*	WG1227840
(S) a,a,a-Trifluorotoluene	*98.4*			*80.0-120*		*01/24/2019 16:40*	WG1227840
(S) 4-Bromofluorobenzene	*93.4*			*77.0-126*		*01/24/2019 16:40*	WG1227840

JC 3/11/19

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	210000		2710	20000	1	01/29/2019 13:51	WG1229337

Sample Narrative:

L1063697-03 WG1229337: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	28100		51.9	1000	1	01/24/2019 17:45	WG1227809
Nitrate	U		22.7	100	1	01/24/2019 17:45	WG1227809
Sulfate	11000		77.4	5000	1	01/24/2019 17:45	WG1227809

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1960	B	102	1000	1	01/28/2019 17:24	WG1229248

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	13800		15.0	100	1	01/28/2019 01:18	WG1228207
Manganese	809		0.250	5.00	1	01/28/2019 01:18	WG1228207

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 20:25	WG1227701
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*01/24/2019 20:25*	WG1227701

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	286		0.287	0.678	1	01/25/2019 14:02	WG1227529
Ethane	U		0.296	1.29	1	01/25/2019 14:02	WG1227529
Ethene	4.19		0.422	1.27	1	01/25/2019 14:02	WG1227529

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.73 U	~~J~~	1.05	25.0	1	01/24/2019 17:00	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 17:00	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 17:00	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 17:00	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 17:00	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 17:00	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 17:00	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 17:00	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 17:00	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 17:00	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 17:00	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 17:00	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 17:00	WG1227840

JC 3/11/19

MW-105-012319

Collected date/time: 01/23/19 10:30

SAMPLE RESULTS - 03

L1063697

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 17:00	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 17:00	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 17:00	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 17:00	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 17:00	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 17:00	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 17:00	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 17:00	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 17:00	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 17:00	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 17:00	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 17:00	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 17:00	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 17:00	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 17:00	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 17:00	WG1227840
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 17:00	WG1227840
cis-1,2-Dichloroethene	1.51		0.0933	0.500	1	01/24/2019 17:00	WG1227840
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 17:00	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 17:00	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 17:00	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 17:00	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 17:00	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 17:00	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 17:00	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 17:00	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 17:00	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 17:00	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 17:00	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 17:00	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 17:00	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 17:00	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 17:00	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 17:00	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 17:00	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 17:00	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 17:00	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 17:00	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 17:00	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 17:00	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 17:00	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 17:00	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 17:00	WG1227840
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 17:00	WG1227840
Tetrachloroethene	0.790		0.199	0.500	1	01/24/2019 17:00	WG1227840
Toluene	U		0.412	0.500	1	01/24/2019 17:00	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 17:00	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 17:00	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 17:00	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 17:00	WG1227840
Trichloroethene	0.317 J	J	0.153	0.500	1	01/24/2019 17:00	WG1227840
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 17:00	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 17:00	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 17:00	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 17:00	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 17:00	WG1227840

JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 17:00	WG1227840
Vinyl chloride	0.392 J	J	0.118	0.500	1	01/24/2019 17:00	WG1227840
Xylenes, Total	U		0.316	1.50	1	01/24/2019 17:00	WG1227840
(S) Toluene-d8	*100*			*80.0-120*		*01/24/2019 17:00*	WG1227840
(S) Dibromofluoromethane	*101*			*75.0-120*		*01/24/2019 17:00*	WG1227840
(S) a,a,a-Trifluorotoluene	*98.1*			*80.0-120*		*01/24/2019 17:00*	WG1227840
(S) 4-Bromofluorobenzene	*93.0*			*77.0-126*		*01/24/2019 17:00*	WG1227840

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

BB-8-012319

Collected date/time: 01/23/19 11:00

SAMPLE RESULTS - 04

L1063697

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	280000		2710	20000	1	01/29/2019 13:58	WG1229337

Sample Narrative:

L1063697-04 WG1229337: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	12400		51.9	1000	1	01/24/2019 18:01	WG1227809
Nitrate	891		22.7	100	1	01/24/2019 18:01	WG1227809
Sulfate	93300		77.4	5000	1	01/24/2019 18:01	WG1227809

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3430		102	1000	1	01/28/2019 17:37	WG1229248

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	95.4 J	J	15.0	100	1	01/28/2019 00:55	WG1228207
Manganese	82.0 J	O1	0.250	5.00	1	01/28/2019 00:55	WG1228207

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	99.6 J	J	31.6	100	1	01/24/2019 20:47	WG1227701
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*01/24/2019 20:47*	WG1227701

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	111		0.287	0.678	1	01/25/2019 14:07	WG1227529
Ethane	0.735 J	J	0.296	1.29	1	01/25/2019 14:07	WG1227529
Ethene	U		0.422	1.27	1	01/25/2019 14:07	WG1227529

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/24/2019 17:20	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 17:20	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 17:20	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 17:20	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 17:20	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 17:20	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 17:20	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 17:20	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 17:20	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 17:20	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 17:20	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 17:20	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 17:20	WG1227840

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	01/24/2019 17:20	WG1227840	
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 17:20	WG1227840	
Chloroethane	U		0.141	2.50	1	01/24/2019 17:20	WG1227840	
Chloroform	U		0.0860	0.500	1	01/24/2019 17:20	WG1227840	
Chloromethane	U		0.153	1.25	1	01/24/2019 17:20	WG1227840	
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 17:20	WG1227840	
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 17:20	WG1227840	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 17:20	WG1227840	
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 17:20	WG1227840	
Dibromomethane	U		0.117	0.500	1	01/24/2019 17:20	WG1227840	
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 17:20	WG1227840	
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 17:20	WG1227840	
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 17:20	WG1227840	
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 17:20	WG1227840	
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 17:20	WG1227840	
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 17:20	WG1227840	
1,1-Dichloroethene	0.403 J	J	0.188	0.500	1	01/24/2019 17:20	WG1227840	
cis-1,2-Dichloroethene	81.5		0.0933	0.500	1	01/24/2019 17:20	WG1227840	
trans-1,2-Dichloroethene	0.402 J	J	0.152	0.500	1	01/24/2019 17:20	WG1227840	
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 17:20	WG1227840	
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 17:20	WG1227840	
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 17:20	WG1227840	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 17:20	WG1227840	
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 17:20	WG1227840	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 17:20	WG1227840	
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 17:20	WG1227840	
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 17:20	WG1227840	
Ethylbenzene	U		0.158	0.500	1	01/24/2019 17:20	WG1227840	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 17:20	WG1227840	
2-Hexanone	U		0.757	5.00	1	01/24/2019 17:20	WG1227840	
n-Hexane	U		0.305	5.00	1	01/24/2019 17:20	WG1227840	
Iodomethane	U		0.377	10.0	1	01/24/2019 17:20	WG1227840	
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 17:20	WG1227840	
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 17:20	WG1227840	
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 17:20	WG1227840	
Methylene Chloride	U		1.07	2.50	1	01/24/2019 17:20	WG1227840	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 17:20	WG1227840	
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 17:20	WG1227840	
Naphthalene	U		0.174	2.50	1	01/24/2019 17:20	WG1227840	
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 17:20	WG1227840	
Styrene	U		0.117	0.500	1	01/24/2019 17:20	WG1227840	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 17:20	WG1227840	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 17:20	WG1227840	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 17:20	WG1227840	
Tetrachloroethene	133		0.199	0.500	1	01/24/2019 17:20	WG1227840	
Toluene	U		0.412	0.500	1	01/24/2019 17:20	WG1227840	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 17:20	WG1227840	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 17:20	WG1227840	
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 17:20	WG1227840	
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 17:20	WG1227840	
Trichloroethene	43.1		0.153	0.500	1	01/24/2019 17:20	WG1227840	
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 17:20	WG1227840	
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 17:20	WG1227840	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 17:20	WG1227840	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 17:20	WG1227840	JC 3/11/19
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 17:20	WG1227840	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 17:20	WG1227840
Vinyl chloride	0.618		0.118	0.500	1	01/24/2019 17:20	WG1227840
Xylenes, Total	U		0.316	1.50	1	01/24/2019 17:20	WG1227840
(S) Toluene-d8	*102*			*80.0-120*		*01/24/2019 17:20*	WG1227840
(S) Dibromofluoromethane	*104*			*75.0-120*		*01/24/2019 17:20*	WG1227840
(S) a,a,a-Trifluorotoluene	*97.3*			*80.0-120*		*01/24/2019 17:20*	WG1227840
(S) 4-Bromofluorobenzene	*93.1*			*77.0-126*		*01/24/2019 17:20*	WG1227840

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/24/2019 17:40	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 17:40	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 17:40	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 17:40	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 17:40	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 17:40	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 17:40	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 17:40	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 17:40	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 17:40	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 17:40	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 17:40	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 17:40	WG1227840
Chlorobenzene	U		0.140	0.500	1	01/24/2019 17:40	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 17:40	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 17:40	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 17:40	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 17:40	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 17:40	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 17:40	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 17:40	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 17:40	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 17:40	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 17:40	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 17:40	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 17:40	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 17:40	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 17:40	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 17:40	WG1227840
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 17:40	WG1227840
cis-1,2-Dichloroethene	1.70		0.0933	0.500	1	01/24/2019 17:40	WG1227840
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 17:40	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 17:40	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 17:40	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 17:40	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 17:40	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 17:40	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 17:40	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 17:40	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 17:40	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 17:40	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 17:40	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 17:40	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 17:40	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 17:40	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 17:40	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 17:40	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 17:40	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 17:40	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 17:40	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 17:40	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 17:40	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 17:40	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 17:40	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 17:40	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 17:40	WG1227840

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 17:40	WG1227840
Tetrachloroethene	0.492 J	J	0.199	0.500	1	01/24/2019 17:40	WG1227840
Toluene	U		0.412	0.500	1	01/24/2019 17:40	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 17:40	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 17:40	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 17:40	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 17:40	WG1227840
Trichloroethene	0.176 J	J	0.153	0.500	1	01/24/2019 17:40	WG1227840
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 17:40	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 17:40	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 17:40	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 17:40	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 17:40	WG1227840
Vinyl acetate	U		0.645	5.00	1	01/24/2019 17:40	WG1227840
Vinyl chloride	37.6		0.118	0.500	1	01/24/2019 17:40	WG1227840
Xylenes, Total	U		0.316	1.50	1	01/24/2019 17:40	WG1227840
(S) Toluene-d8	*102*			*80.0-120*		*01/24/2019 17:40*	WG1227840
(S) Dibromofluoromethane	*105*			*75.0-120*		*01/24/2019 17:40*	WG1227840
(S) a,a,a-Trifluorotoluene	*98.6*			*80.0-120*		*01/24/2019 17:40*	WG1227840
(S) 4-Bromofluorobenzene	*94.1*			*77.0-126*		*01/24/2019 17:40*	WG1227840

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	23.0 J	J	1.05	25.0	1	01/24/2019 18:00	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 18:00	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 18:00	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 18:00	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 18:00	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 18:00	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 18:00	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 18:00	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 18:00	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 18:00	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 18:00	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 18:00	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 18:00	WG1227840
Chlorobenzene	U		0.140	0.500	1	01/24/2019 18:00	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 18:00	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 18:00	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 18:00	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 18:00	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 18:00	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 18:00	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 18:00	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 18:00	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 18:00	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 18:00	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 18:00	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 18:00	WG1227840
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 18:00	WG1227840
cis-1,2-Dichloroethene	11.4		0.0933	0.500	1	01/24/2019 18:00	WG1227840
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 18:00	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 18:00	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 18:00	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 18:00	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 18:00	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 18:00	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 18:00	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 18:00	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 18:00	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 18:00	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 18:00	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 18:00	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 18:00	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 18:00	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 18:00	WG1227840
2-Butanone (MEK)	8.78		1.28	5.00	1	01/24/2019 18:00	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 18:00	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 18:00	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 18:00	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 18:00	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 18:00	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 18:00	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 18:00	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 18:00	WG1227840

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 18:00	WG1227840
Tetrachloroethene	0.365 J	J	0.199	0.500	1	01/24/2019 18:00	WG1227840
Toluene	1.35		0.412	0.500	1	01/24/2019 18:00	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 18:00	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 18:00	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 18:00	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 18:00	WG1227840
Trichloroethene	1.48		0.153	0.500	1	01/24/2019 18:00	WG1227840
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 18:00	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 18:00	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 18:00	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 18:00	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 18:00	WG1227840
Vinyl acetate	U		0.645	5.00	1	01/24/2019 18:00	WG1227840
Vinyl chloride	6.68		0.118	0.500	1	01/24/2019 18:00	WG1227840
Xylenes, Total	U		0.316	1.50	1	01/24/2019 18:00	WG1227840
(S) Toluene-d8	*98.6*			*80.0-120*		*01/24/2019 18:00*	WG1227840
(S) Dibromofluoromethane	*104*			*75.0-120*		*01/24/2019 18:00*	WG1227840
(S) a,a,a-Trifluorotoluene	*98.3*			*80.0-120*		*01/24/2019 18:00*	WG1227840
(S) 4-Bromofluorobenzene	*92.7*			*77.0-126*		*01/24/2019 18:00*	WG1227840

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/24/2019 18:19	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 18:19	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 18:19	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 18:19	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 18:19	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 18:19	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 18:19	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 18:19	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 18:19	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 18:19	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 18:19	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 18:19	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 18:19	WG1227840
Chlorobenzene	U		0.140	0.500	1	01/24/2019 18:19	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 18:19	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 18:19	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 18:19	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 18:19	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 18:19	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 18:19	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 18:19	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 18:19	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 18:19	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 18:19	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 18:19	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 18:19	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 18:19	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 18:19	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 18:19	WG1227840
1,1-Dichloroethene	6.44		0.188	0.500	1	01/24/2019 18:19	WG1227840
cis-1,2-Dichloroethene	673		1.87	10.0	20	01/27/2019 22:55	WG1228835
trans-1,2-Dichloroethene	5.83		0.152	0.500	1	01/24/2019 18:19	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 18:19	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 18:19	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 18:19	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 18:19	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 18:19	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 18:19	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 18:19	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 18:19	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 18:19	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 18:19	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 18:19	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 18:19	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 18:19	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 18:19	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 18:19	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 18:19	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 18:19	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 18:19	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 18:19	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 18:19	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 18:19	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 18:19	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 18:19	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 18:19	WG1227840

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 18:19	WG1227840
Tetrachloroethene	1260		3.98	10.0	20	01/27/2019 22:55	WG1228835
Toluene	U		0.412	0.500	1	01/24/2019 18:19	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 18:19	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 18:19	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 18:19	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 18:19	WG1227840
Trichloroethene	490		3.06	10.0	20	01/27/2019 22:55	WG1228835
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 18:19	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 18:19	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 18:19	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 18:19	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 18:19	WG1227840
Vinyl acetate	U		0.645	5.00	1	01/24/2019 18:19	WG1227840
Vinyl chloride	1.39		0.118	0.500	1	01/24/2019 18:19	WG1227840
Xylenes, Total	U		0.316	1.50	1	01/24/2019 18:19	WG1227840
(S) Toluene-d8	*107*			*80.0-120*		*01/27/2019 22:55*	WG1228835
(S) Dibromofluoromethane	*98.8*			*75.0-120*		*01/27/2019 22:55*	WG1228835
(S) 4-Bromofluorobenzene	*85.0*			*77.0-126*		*01/27/2019 22:55*	WG1228835
(S) Toluene-d8	*108*			*80.0-120*		*01/24/2019 18:19*	WG1227840
(S) Dibromofluoromethane	*103*			*75.0-120*		*01/24/2019 18:19*	WG1227840
(S) a,a,a-Trifluorotoluene	*81.7*			*80.0-120*		*01/24/2019 18:19*	WG1227840
(S) 4-Bromofluorobenzene	*93.6*			*77.0-126*		*01/24/2019 18:19*	WG1227840

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	~~J4~~	1.05	25.0	1	01/24/2019 21:58	WG1228162
Acrylonitrile	U		0.873	5.00	1	01/24/2019 21:58	WG1228162
Benzene	U		0.0896	0.500	1	01/24/2019 21:58	WG1228162
Bromobenzene	U		0.133	0.500	1	01/24/2019 21:58	WG1228162
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 21:58	WG1228162
Bromochloromethane	U		0.145	0.500	1	01/24/2019 21:58	WG1228162
Bromoform	U		0.186	0.500	1	01/24/2019 21:58	WG1228162
Bromomethane	U		0.157	2.50	1	01/24/2019 21:58	WG1228162
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 21:58	WG1228162
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 21:58	WG1228162
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 21:58	WG1228162
Carbon disulfide	U		0.101	0.500	1	01/24/2019 21:58	WG1228162
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 21:58	WG1228162
Chlorobenzene	U		0.140	0.500	1	01/24/2019 21:58	WG1228162
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 21:58	WG1228162
Chloroethane	U		0.141	2.50	1	01/24/2019 21:58	WG1228162
Chloroform	U		0.0860	0.500	1	01/24/2019 21:58	WG1228162
Chloromethane	U		0.153	1.25	1	01/24/2019 21:58	WG1228162
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 21:58	WG1228162
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 21:58	WG1228162
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 21:58	WG1228162
Dibromomethane	U		0.117	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 21:58	WG1228162
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 21:58	WG1228162
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 21:58	WG1228162
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 21:58	WG1228162
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 21:58	WG1228162
1,1-Dichloroethene	6.88		0.188	0.500	1	01/24/2019 21:58	WG1228162
cis-1,2-Dichloroethene	718		18.7	100	200	01/30/2019 03:14	WG1229996
trans-1,2-Dichloroethene	6.49		0.152	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 21:58	WG1228162
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 21:58	WG1228162
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 21:58	WG1228162
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 21:58	WG1228162
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 21:58	WG1228162
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 21:58	WG1228162
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 21:58	WG1228162
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 21:58	WG1228162
Ethylbenzene	U		0.158	0.500	1	01/24/2019 21:58	WG1228162
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 21:58	WG1228162
2-Hexanone	U		0.757	5.00	1	01/24/2019 21:58	WG1228162
n-Hexane	U		0.305	5.00	1	01/24/2019 21:58	WG1228162
Iodomethane	U		0.377	10.0	1	01/24/2019 21:58	WG1228162
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 21:58	WG1228162
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 21:58	WG1228162
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 21:58	WG1228162
Methylene Chloride	U		1.07	2.50	1	01/24/2019 21:58	WG1228162
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 21:58	WG1228162
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 21:58	WG1228162
Naphthalene	U		0.174	2.50	1	01/24/2019 21:58	WG1228162
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 21:58	WG1228162
Styrene	U		0.117	0.500	1	01/24/2019 21:58	WG1228162
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 21:58	WG1228162
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 21:58	WG1228162

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 21:58	WG1228162
Tetrachloroethene	1120		39.8	100	200	01/30/2019 03:14	WG1229996
Toluene	U		0.412	0.500	1	01/24/2019 21:58	WG1228162
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 21:58	WG1228162
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 21:58	WG1228162
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 21:58	WG1228162
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 21:58	WG1228162
Trichloroethene	499		30.6	100	200	01/30/2019 03:14	WG1229996
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 21:58	WG1228162
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 21:58	WG1228162
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 21:58	WG1228162
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 21:58	WG1228162
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 21:58	WG1228162
Vinyl acetate	U		0.645	5.00	1	01/24/2019 21:58	WG1228162
Vinyl chloride	1.51		0.118	0.500	1	01/24/2019 21:58	WG1228162
Xylenes, Total	U		0.316	1.50	1	01/24/2019 21:58	WG1228162
(S) Toluene-d8	*108*			*80.0-120*		*01/24/2019 21:58*	WG1228162
(S) Toluene-d8	*85.4*			*80.0-120*		*01/30/2019 03:14*	WG1229996
(S) Dibromofluoromethane	*102*			*75.0-120*		*01/24/2019 21:58*	WG1228162
(S) 4-Bromofluorobenzene	*91.7*			*77.0-126*		*01/24/2019 21:58*	WG1228162
(S) 4-Bromofluorobenzene	*99.0*			*77.0-126*		*01/30/2019 03:14*	WG1229996
(S) 1,2-Dichloroethane-d4	*95.7*			*70.0-130*		*01/30/2019 03:14*	WG1229996

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	3610	B J	2710	20000	1	01/29/2019 13:19	WG1229337

Sample Narrative:

L1063697-09 WG1229337: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	59.6	J	51.9	1000	1	01/24/2019 18:49	WG1227809
Nitrate	39.8	J	22.7	100	1	01/24/2019 18:49	WG1227809
Sulfate	U		77.4	5000	1	01/25/2019 08:55	WG1227809

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	555	B J	102	1000	1	01/28/2019 17:50	WG1229248

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	37.7	J	15.0	100	1	01/28/2019 01:23	WG1228207
Manganese	1.94	J	0.250	5.00	1	01/28/2019 01:23	WG1228207

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 21:09	WG1227701
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*01/24/2019 21:09*	WG1227701

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	U		0.287	0.678	1	01/25/2019 14:10	WG1227529
Ethane	U		0.296	1.29	1	01/25/2019 14:10	WG1227529
Ethene	U		0.422	1.27	1	01/25/2019 14:10	WG1227529

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.43	J J4	1.05	25.0	1	01/24/2019 22:17	WG1228162
Acrylonitrile	U		0.873	5.00	1	01/24/2019 22:17	WG1228162
Benzene	U		0.0896	0.500	1	01/24/2019 22:17	WG1228162
Bromobenzene	U		0.133	0.500	1	01/24/2019 22:17	WG1228162
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 22:17	WG1228162
Bromochloromethane	U		0.145	0.500	1	01/24/2019 22:17	WG1228162
Bromoform	U		0.186	0.500	1	01/24/2019 22:17	WG1228162
Bromomethane	U		0.157	2.50	1	01/24/2019 22:17	WG1228162
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 22:17	WG1228162
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 22:17	WG1228162
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 22:17	WG1228162
Carbon disulfide	U		0.101	0.500	1	01/24/2019 22:17	WG1228162
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 22:17	WG1228162

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	01/24/2019 22:17	WG1228162
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 22:17	WG1228162
Chloroethane	U		0.141	2.50	1	01/24/2019 22:17	WG1228162
Chloroform	0.151	J	0.0860	0.500	1	01/24/2019 22:17	WG1228162
Chloromethane	U		0.153	1.25	1	01/24/2019 22:17	WG1228162
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 22:17	WG1228162
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 22:17	WG1228162
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 22:17	WG1228162
Dibromomethane	U		0.117	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 22:17	WG1228162
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 22:17	WG1228162
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 22:17	WG1228162
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 22:17	WG1228162
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 22:17	WG1228162
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 22:17	WG1228162
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/30/2019 03:34	WG1229996
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 22:17	WG1228162
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 22:17	WG1228162
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 22:17	WG1228162
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 22:17	WG1228162
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 22:17	WG1228162
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 22:17	WG1228162
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 22:17	WG1228162
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 22:17	WG1228162
Ethylbenzene	U		0.158	0.500	1	01/24/2019 22:17	WG1228162
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 22:17	WG1228162
2-Hexanone	U		0.757	5.00	1	01/24/2019 22:17	WG1228162
n-Hexane	U		0.305	5.00	1	01/24/2019 22:17	WG1228162
Iodomethane	U		0.377	10.0	1	01/24/2019 22:17	WG1228162
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 22:17	WG1228162
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 22:17	WG1228162
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 22:17	WG1228162
Methylene Chloride	U		1.07	2.50	1	01/24/2019 22:17	WG1228162
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 22:17	WG1228162
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 22:17	WG1228162
Naphthalene	U		0.174	2.50	1	01/24/2019 22:17	WG1228162
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 22:17	WG1228162
Styrene	U		0.117	0.500	1	01/24/2019 22:17	WG1228162
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 22:17	WG1228162
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 22:17	WG1228162
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 22:17	WG1228162
Tetrachloroethene	U		0.199	0.500	1	01/30/2019 03:34	WG1229996
Toluene	U		0.412	0.500	1	01/24/2019 22:17	WG1228162
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 22:17	WG1228162
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 22:17	WG1228162
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 22:17	WG1228162
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 22:17	WG1228162
Trichloroethene	U		0.153	0.500	1	01/30/2019 03:34	WG1229996
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 22:17	WG1228162
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 22:17	WG1228162
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 22:17	WG1228162
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 22:17	WG1228162
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 22:17	WG1228162

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 22:17	WG1228162
Vinyl chloride	U		0.118	0.500	1	01/24/2019 22:17	WG1228162
Xylenes, Total	U		0.316	1.50	1	01/24/2019 22:17	WG1228162
(S) Toluene-d8	*101*			*80.0-120*		*01/24/2019 22:17*	WG1228162
(S) Toluene-d8	*91.4*			*80.0-120*		*01/30/2019 03:34*	WG1229996
(S) Dibromofluoromethane	*105*			*75.0-120*		*01/24/2019 22:17*	WG1228162
(S) 4-Bromofluorobenzene	*93.6*			*77.0-126*		*01/24/2019 22:17*	WG1228162
(S) 4-Bromofluorobenzene	*96.6*			*77.0-126*		*01/30/2019 03:34*	WG1229996
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*01/30/2019 03:34*	WG1229996

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	1.05	25.0	1	01/24/2019 20:19	WG1228162
Acrylonitrile	U		0.873	5.00	1	01/24/2019 20:19	WG1228162
Benzene	U		0.0896	0.500	1	01/24/2019 20:19	WG1228162
Bromobenzene	U		0.133	0.500	1	01/24/2019 20:19	WG1228162
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 20:19	WG1228162
Bromochloromethane	U		0.145	0.500	1	01/24/2019 20:19	WG1228162
Bromoform	U		0.186	0.500	1	01/24/2019 20:19	WG1228162
Bromomethane	U		0.157	2.50	1	01/24/2019 20:19	WG1228162
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 20:19	WG1228162
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 20:19	WG1228162
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 20:19	WG1228162
Carbon disulfide	U		0.101	0.500	1	01/24/2019 20:19	WG1228162
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 20:19	WG1228162
Chlorobenzene	U		0.140	0.500	1	01/24/2019 20:19	WG1228162
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 20:19	WG1228162
Chloroethane	U		0.141	2.50	1	01/24/2019 20:19	WG1228162
Chloroform	U		0.0860	0.500	1	01/24/2019 20:19	WG1228162
Chloromethane	U		0.153	1.25	1	01/24/2019 20:19	WG1228162
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 20:19	WG1228162
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 20:19	WG1228162
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 20:19	WG1228162
Dibromomethane	U		0.117	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 20:19	WG1228162
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 20:19	WG1228162
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 20:19	WG1228162
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 20:19	WG1228162
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 20:19	WG1228162
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 20:19	WG1228162
cis-1,2-Dichloroethene	0.106	B J	0.0933	0.500	1	01/24/2019 20:19	WG1228162
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 20:19	WG1228162
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 20:19	WG1228162
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 20:19	WG1228162
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 20:19	WG1228162
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 20:19	WG1228162
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 20:19	WG1228162
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 20:19	WG1228162
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 20:19	WG1228162
Ethylbenzene	U		0.158	0.500	1	01/24/2019 20:19	WG1228162
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 20:19	WG1228162
2-Hexanone	U		0.757	5.00	1	01/24/2019 20:19	WG1228162
n-Hexane	U		0.305	5.00	1	01/24/2019 20:19	WG1228162
Iodomethane	U		0.377	10.0	1	01/24/2019 20:19	WG1228162
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 20:19	WG1228162
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 20:19	WG1228162
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 20:19	WG1228162
Methylene Chloride	U		1.07	2.50	1	01/24/2019 20:19	WG1228162
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 20:19	WG1228162
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 20:19	WG1228162
Naphthalene	U		0.174	2.50	1	01/24/2019 20:19	WG1228162
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 20:19	WG1228162
Styrene	U		0.117	0.500	1	01/24/2019 20:19	WG1228162
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 20:19	WG1228162
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 20:19	WG1228162

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 20:19	WG1228162
Tetrachloroethene	U		0.199	0.500	1	01/30/2019 03:53	WG1229996
Toluene	0.427	J	0.412	0.500	1	01/24/2019 20:19	WG1228162
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 20:19	WG1228162
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 20:19	WG1228162
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 20:19	WG1228162
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 20:19	WG1228162
Trichloroethene	U		0.153	0.500	1	01/24/2019 20:19	WG1228162
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 20:19	WG1228162
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 20:19	WG1228162
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 20:19	WG1228162
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 20:19	WG1228162
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 20:19	WG1228162
Vinyl acetate	U		0.645	5.00	1	01/24/2019 20:19	WG1228162
Vinyl chloride	U		0.118	0.500	1	01/24/2019 20:19	WG1228162
Xylenes, Total	U		0.316	1.50	1	01/24/2019 20:19	WG1228162
(S) Toluene-d8	*100*			*80.0-120*		*01/24/2019 20:19*	WG1228162
(S) Toluene-d8	*91.8*			*80.0-120*		*01/30/2019 03:53*	WG1229996
(S) Dibromofluoromethane	*104*			*75.0-120*		*01/24/2019 20:19*	WG1228162
(S) 4-Bromofluorobenzene	*93.5*			*77.0-126*		*01/24/2019 20:19*	WG1228162
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*		*01/30/2019 03:53*	WG1229996
(S) 1,2-Dichloroethane-d4	*90.4*			*70.0-130*		*01/30/2019 03:53*	WG1229996

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SAMPLE RESULTS - 01

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	01/25/2019 21:15	WG1228529
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 21:15	WG1228529
Chloroethane	U		0.141	2.50	1	01/25/2019 21:15	WG1228529
Chloroform	U		0.0860	0.500	1	01/25/2019 21:15	WG1228529
Chloromethane	U		0.153	1.25	1	01/25/2019 21:15	WG1228529
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 21:15	WG1228529
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 21:15	WG1228529
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 21:15	WG1228529
Dibromomethane	U		0.117	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 21:15	WG1228529
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 21:15	WG1228529
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 21:15	WG1228529
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 21:15	WG1228529
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 21:15	WG1228529
1,1-Dichloroethene	U		0.188	0.500	1	01/25/2019 21:15	WG1228529
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/25/2019 21:15	WG1228529
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 21:15	WG1228529
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 21:15	WG1228529
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 21:15	WG1228529
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 21:15	WG1228529
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 21:15	WG1228529
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	01/28/2019 18:13	WG1229442
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 21:15	WG1228529
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 21:15	WG1228529
Ethylbenzene	U		0.158	0.500	1	01/25/2019 21:15	WG1228529
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 21:15	WG1228529
2-Hexanone	U		0.757	5.00	1	01/25/2019 21:15	WG1228529
n-Hexane	U		0.305	5.00	1	01/25/2019 21:15	WG1228529
Iodomethane	U		0.377	10.0	1	01/25/2019 21:15	WG1228529
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 21:15	WG1228529
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 21:15	WG1228529
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 21:15	WG1228529
Methylene Chloride	U		1.07	2.50	1	01/25/2019 21:15	WG1228529
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 21:15	WG1228529
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 21:15	WG1228529
Naphthalene	U		0.174	2.50	1	01/25/2019 21:15	WG1228529
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 21:15	WG1228529
Styrene	U		0.117	0.500	1	01/25/2019 21:15	WG1228529
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 21:15	WG1228529
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 21:15	WG1228529
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 21:15	WG1228529
Tetrachloroethene	0.220	J J	0.199	0.500	1	01/25/2019 21:15	WG1228529
Toluene	U		0.412	0.500	1	01/25/2019 21:15	WG1228529
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 21:15	WG1228529
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 21:15	WG1228529
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 21:15	WG1228529
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 21:15	WG1228529
Trichloroethene	U		0.153	0.500	1	01/25/2019 21:15	WG1228529
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 21:15	WG1228529
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 21:15	WG1228529
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 21:15	WG1228529
1,2,3-Trimethylbenzene	U	UJ J0 J4	0.0739	0.500	1	01/25/2019 21:15	WG1228529
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 21:15	WG1228529

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 21:15	WG1228529
Vinyl chloride	U		0.118	0.500	1	01/25/2019 21:15	WG1228529
Xylenes, Total	U		0.316	1.50	1	01/25/2019 21:15	WG1228529
(S) Toluene-d8	*99.8*			*80.0-120*		*01/25/2019 21:15*	WG1228529
(S) Toluene-d8	*109*			*80.0-120*		*01/28/2019 18:13*	WG1229442
(S) Dibromofluoromethane	*91.5*			*75.0-120*		*01/25/2019 21:15*	WG1228529
(S) Dibromofluoromethane	*98.7*			*75.0-120*		*01/28/2019 18:13*	WG1229442
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*		*01/25/2019 21:15*	WG1228529
(S) a,a,a-Trifluorotoluene	*99.3*			*80.0-120*		*01/28/2019 18:13*	WG1229442
(S) 4-Bromofluorobenzene	*96.7*			*77.0-126*		*01/25/2019 21:15*	WG1228529
(S) 4-Bromofluorobenzene	*90.5*			*77.0-126*		*01/28/2019 18:13*	WG1229442

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Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	329000		2710	20000	1	01/28/2019 13:49	WG1228505

Sample Narrative:

L1064133-02 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	29700		51.9	1000	1	01/25/2019 17:12	WG1228307
Nitrate	U		22.7	100	1	01/25/2019 17:12	WG1228307
Sulfate	26800		77.4	5000	1	01/25/2019 17:12	WG1228307

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	7950		102	1000	1	01/28/2019 14:06	WG1229248

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	181000		15.0	100	1	01/26/2019 16:05	WG1228813
Manganese	3070		0.250	5.00	1	01/26/2019 16:05	WG1228813

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/27/2019 21:46	WG1229109
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*01/27/2019 21:46*	WG1229109

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	196		0.287	0.678	1	01/28/2019 13:57	WG1228571
Ethane	2.52		0.296	1.29	1	01/28/2019 13:57	WG1228571
Ethene	8.12		0.422	1.27	1	01/28/2019 13:57	WG1228571

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Acetone	U		1.05	25.0	1	01/25/2019 21:34	WG1228529	
Acrylonitrile	U		0.873	5.00	1	01/25/2019 21:34	WG1228529	
Benzene	U		0.0896	0.500	1	01/25/2019 21:34	WG1228529	
Bromobenzene	U		0.133	0.500	1	01/25/2019 21:34	WG1228529	
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 21:34	WG1228529	
Bromochloromethane	U		0.145	0.500	1	01/25/2019 21:34	WG1228529	
Bromoform	U		0.186	0.500	1	01/25/2019 21:34	WG1228529	
Bromomethane	U		0.157	2.50	1	01/25/2019 21:34	WG1228529	
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 21:34	WG1228529	
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 21:34	WG1228529	
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 21:34	WG1228529	
Carbon disulfide	0.491 J	J	0.101	0.500	1	01/25/2019 21:34	WG1228529	JC 2/22/19
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 21:34	WG1228529	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/25/2019 21:34	WG1228529
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 21:34	WG1228529
Chloroethane	U		0.141	2.50	1	01/25/2019 21:34	WG1228529
Chloroform	U		0.0860	0.500	1	01/25/2019 21:34	WG1228529
Chloromethane	U		0.153	1.25	1	01/25/2019 21:34	WG1228529
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 21:34	WG1228529
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 21:34	WG1228529
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 21:34	WG1228529
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 21:34	WG1228529
Dibromomethane	U		0.117	0.500	1	01/25/2019 21:34	WG1228529
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 21:34	WG1228529
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 21:34	WG1228529
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 21:34	WG1228529
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 21:34	WG1228529
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 21:34	WG1228529
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 21:34	WG1228529
1,1-Dichloroethene	U		0.188	0.500	1	01/25/2019 21:34	WG1228529
cis-1,2-Dichloroethene	2.54		0.0933	0.500	1	01/25/2019 21:34	WG1228529
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/25/2019 21:34	WG1228529
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 21:34	WG1228529
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 21:34	WG1228529
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 21:34	WG1228529
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 21:34	WG1228529
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 21:34	WG1228529
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	01/28/2019 18:34	WG1229442
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 21:34	WG1228529
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 21:34	WG1228529
Ethylbenzene	U		0.158	0.500	1	01/25/2019 21:34	WG1228529
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 21:34	WG1228529
2-Hexanone	U		0.757	5.00	1	01/25/2019 21:34	WG1228529
n-Hexane	U		0.305	5.00	1	01/25/2019 21:34	WG1228529
Iodomethane	U		0.377	10.0	1	01/25/2019 21:34	WG1228529
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 21:34	WG1228529
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 21:34	WG1228529
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 21:34	WG1228529
Methylene Chloride	U		1.07	2.50	1	01/25/2019 21:34	WG1228529
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 21:34	WG1228529
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 21:34	WG1228529
Naphthalene	U		0.174	2.50	1	01/25/2019 21:34	WG1228529
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 21:34	WG1228529
Styrene	U		0.117	0.500	1	01/25/2019 21:34	WG1228529
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 21:34	WG1228529
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 21:34	WG1228529
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 21:34	WG1228529
Tetrachloroethene	U		0.199	0.500	1	01/25/2019 21:34	WG1228529
Toluene	U		0.412	0.500	1	01/25/2019 21:34	WG1228529
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 21:34	WG1228529
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 21:34	WG1228529
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 21:34	WG1228529
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 21:34	WG1228529
Trichloroethene	0.325 J	J	0.153	0.500	1	01/25/2019 21:34	WG1228529
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 21:34	WG1228529
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 21:34	WG1228529
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 21:34	WG1228529
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.0739	0.500	1	01/25/2019 21:34	WG1228529
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 21:34	WG1228529

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 21:34	WG1228529
Vinyl chloride	7.58		0.118	0.500	1	01/25/2019 21:34	WG1228529
Xylenes, Total	U		0.316	1.50	1	01/25/2019 21:34	WG1228529
(S) Toluene-d8	*100*			*80.0-120*		*01/25/2019 21:34*	WG1228529
(S) Toluene-d8	*107*			*80.0-120*		*01/28/2019 18:34*	WG1229442
(S) Dibromofluoromethane	*90.9*			*75.0-120*		*01/25/2019 21:34*	WG1228529
(S) Dibromofluoromethane	*101*			*75.0-120*		*01/28/2019 18:34*	WG1229442
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*		*01/25/2019 21:34*	WG1228529
(S) a,a,a-Trifluorotoluene	*97.4*			*80.0-120*		*01/28/2019 18:34*	WG1229442
(S) 4-Bromofluorobenzene	*94.7*			*77.0-126*		*01/25/2019 21:34*	WG1228529
(S) 4-Bromofluorobenzene	*93.5*			*77.0-126*		*01/28/2019 18:34*	WG1229442

JC 2/22/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	421000		2710	20000	1	01/28/2019 13:58	WG1228505

Sample Narrative:

L1064133-03 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	43200		51.9	1000	1	01/25/2019 17:23	WG1228307
Nitrate	U		22.7	100	1	01/25/2019 17:23	WG1228307
Sulfate	24100		77.4	5000	1	01/25/2019 17:23	WG1228307

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	12900		102	1000	1	01/28/2019 14:21	WG1229248

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5250		15.0	100	1	01/26/2019 16:10	WG1228813
Manganese	1170		0.250	5.00	1	01/26/2019 16:10	WG1228813

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1870	J+	31.6	100	1	01/27/2019 22:09	WG1229109
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*01/27/2019 22:09*	WG1229109

JC 3/19/19

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	4970		0.287	0.678	1	01/28/2019 14:12	WG1228571
Ethane	37.4		0.296	1.29	1	01/28/2019 14:12	WG1228571
Ethene	124		0.422	1.27	1	01/28/2019 14:12	WG1228571

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.31 J	J	1.05	25.0	1	01/25/2019 21:53	WG1228529
Acrylonitrile	U		0.873	5.00	1	01/25/2019 21:53	WG1228529
Benzene	U		0.0896	0.500	1	01/25/2019 21:53	WG1228529
Bromobenzene	U		0.133	0.500	1	01/25/2019 21:53	WG1228529
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 21:53	WG1228529
Bromochloromethane	U		0.145	0.500	1	01/25/2019 21:53	WG1228529
Bromoform	U		0.186	0.500	1	01/25/2019 21:53	WG1228529
Bromomethane	U		0.157	2.50	1	01/25/2019 21:53	WG1228529
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 21:53	WG1228529
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 21:53	WG1228529
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 21:53	WG1228529
Carbon disulfide	U		0.101	0.500	1	01/25/2019 21:53	WG1228529
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 21:53	WG1228529

JC 2/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U			0.140	0.500	1	01/25/2019 21:53	WG1228529
Chlorodibromomethane	U			0.128	0.500	1	01/25/2019 21:53	WG1228529
Chloroethane	0.505	J	J	0.141	2.50	1	01/25/2019 21:53	WG1228529
Chloroform	U			0.0860	0.500	1	01/25/2019 21:53	WG1228529
Chloromethane	U			0.153	1.25	1	01/25/2019 21:53	WG1228529
2-Chlorotoluene	U			0.111	0.500	1	01/25/2019 21:53	WG1228529
4-Chlorotoluene	U			0.0972	0.500	1	01/25/2019 21:53	WG1228529
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	01/25/2019 21:53	WG1228529
1,2-Dibromoethane	U			0.193	0.500	1	01/25/2019 21:53	WG1228529
Dibromomethane	U			0.117	0.500	1	01/25/2019 21:53	WG1228529
1,2-Dichlorobenzene	U			0.101	0.500	1	01/25/2019 21:53	WG1228529
1,3-Dichlorobenzene	U			0.130	0.500	1	01/25/2019 21:53	WG1228529
1,4-Dichlorobenzene	U			0.121	0.500	1	01/25/2019 21:53	WG1228529
Dichlorodifluoromethane	U			0.127	2.50	1	01/25/2019 21:53	WG1228529
1,1-Dichloroethane	U			0.114	0.500	1	01/25/2019 21:53	WG1228529
1,2-Dichloroethane	U			0.108	0.500	1	01/25/2019 21:53	WG1228529
1,1-Dichloroethene	16.7			0.188	0.500	1	01/25/2019 21:53	WG1228529
cis-1,2-Dichloroethene	4250			18.7	100	200	01/28/2019 19:15	WG1229442
trans-1,2-Dichloroethene	14.2			0.152	0.500	1	01/25/2019 21:53	WG1228529
1,2-Dichloropropane	U			0.190	0.500	1	01/25/2019 21:53	WG1228529
1,1-Dichloropropene	U			0.128	0.500	1	01/25/2019 21:53	WG1228529
1,3-Dichloropropane	U			0.147	1.00	1	01/25/2019 21:53	WG1228529
cis-1,3-Dichloropropene	U			0.0976	0.500	1	01/25/2019 21:53	WG1228529
trans-1,3-Dichloropropene	U			0.222	0.500	1	01/25/2019 21:53	WG1228529
trans-1,4-Dichloro-2-butene	U	UJ	J0	51.4	1000	200	01/28/2019 19:15	WG1229442
2,2-Dichloropropane	U			0.0929	0.500	1	01/25/2019 21:53	WG1228529
Di-isopropyl ether	U			0.0924	0.500	1	01/25/2019 21:53	WG1228529
Ethylbenzene	U			0.158	0.500	1	01/25/2019 21:53	WG1228529
Hexachloro-1,3-butadiene	U			0.157	1.00	1	01/25/2019 21:53	WG1228529
2-Hexanone	U			0.757	5.00	1	01/25/2019 21:53	WG1228529
n-Hexane	U			0.305	5.00	1	01/25/2019 21:53	WG1228529
Iodomethane	U			0.377	10.0	1	01/25/2019 21:53	WG1228529
Isopropylbenzene	U			0.126	0.500	1	01/25/2019 21:53	WG1228529
p-Isopropyltoluene	U			0.138	0.500	1	01/25/2019 21:53	WG1228529
2-Butanone (MEK)	U			1.28	5.00	1	01/25/2019 21:53	WG1228529
Methylene Chloride	U			1.07	2.50	1	01/25/2019 21:53	WG1228529
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	01/25/2019 21:53	WG1228529
Methyl tert-butyl ether	U			0.102	0.500	1	01/25/2019 21:53	WG1228529
Naphthalene	U			0.174	2.50	1	01/25/2019 21:53	WG1228529
n-Propylbenzene	U			0.162	0.500	1	01/25/2019 21:53	WG1228529
Styrene	U			0.117	0.500	1	01/25/2019 21:53	WG1228529
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	01/25/2019 21:53	WG1228529
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	01/25/2019 21:53	WG1228529
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	01/25/2019 21:53	WG1228529
Tetrachloroethene	U			0.199	0.500	1	01/25/2019 21:53	WG1228529
Toluene	U			0.412	0.500	1	01/25/2019 21:53	WG1228529
1,2,3-Trichlorobenzene	U			0.164	0.500	1	01/25/2019 21:53	WG1228529
1,2,4-Trichlorobenzene	U			0.355	0.500	1	01/25/2019 21:53	WG1228529
1,1,1-Trichloroethane	U			0.0940	0.500	1	01/25/2019 21:53	WG1228529
1,1,2-Trichloroethane	U			0.186	0.500	1	01/25/2019 21:53	WG1228529
Trichloroethene	1.65			0.153	0.500	1	01/25/2019 21:53	WG1228529
Trichlorofluoromethane	U			0.130	2.50	1	01/25/2019 21:53	WG1228529
1,2,3-Trichloropropane	U			0.247	2.50	1	01/25/2019 21:53	WG1228529
1,2,4-Trimethylbenzene	U			0.123	0.500	1	01/25/2019 21:53	WG1228529
1,2,3-Trimethylbenzene	U	UJ	J4	0.0739	0.500	1	01/25/2019 21:53	WG1228529
1,3,5-Trimethylbenzene	U			0.124	0.500	1	01/25/2019 21:53	WG1228529

JC 2/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 21:53	WG1228529
Vinyl chloride	674		23.6	100	200	01/28/2019 19:15	WG1229442
Xylenes, Total	U		0.316	1.50	1	01/25/2019 21:53	WG1228529
(S) Toluene-d8	*99.5*			*80.0-120*		*01/25/2019 21:53*	WG1228529
(S) Toluene-d8	*107*			*80.0-120*		*01/28/2019 19:15*	WG1229442
(S) Dibromofluoromethane	*93.1*			*75.0-120*		*01/25/2019 21:53*	WG1228529
(S) Dibromofluoromethane	*100*			*75.0-120*		*01/28/2019 19:15*	WG1229442
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*		*01/25/2019 21:53*	WG1228529
(S) a,a,a-Trifluorotoluene	*101*			*80.0-120*		*01/28/2019 19:15*	WG1229442
(S) 4-Bromofluorobenzene	*93.1*			*77.0-126*		*01/25/2019 21:53*	WG1228529
(S) 4-Bromofluorobenzene	*91.3*			*77.0-126*		*01/28/2019 19:15*	WG1229442

JC 2/22/19

MW-156-012419

Collected date/time: 01/24/19 14:15

SAMPLE RESULTS - 04

L1064133

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	554000		2710	20000	1	01/28/2019 14:06	WG1228505

Sample Narrative:

L1064133-04 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	25100		51.9	1000	1	01/25/2019 17:34	WG1228307
Nitrate	U		22.7	100	1	01/25/2019 17:34	WG1228307
Sulfate	67600		77.4	5000	1	01/25/2019 17:34	WG1228307

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	34300		102	1000	1	01/28/2019 14:39	WG1229248

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3420		15.0	100	1	01/26/2019 16:14	WG1228813
Manganese	6590		0.250	5.00	1	01/26/2019 16:14	WG1228813

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Gasoline Range Organics-NWTPH	1480	J+	31.6	100	1	01/27/2019 22:32	WG1229109	JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*01/27/2019 22:32*	WG1229109	

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2470		0.287	0.678	1	01/28/2019 14:20	WG1228571
Ethane	44.8		0.296	1.29	1	01/28/2019 14:20	WG1228571
Ethene	U		0.422	1.27	1	01/28/2019 14:20	WG1228571

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/25/2019 22:12	WG1228529
Acrylonitrile	U		0.873	5.00	1	01/25/2019 22:12	WG1228529
Benzene	U		0.0896	0.500	1	01/25/2019 22:12	WG1228529
Bromobenzene	U		0.133	0.500	1	01/25/2019 22:12	WG1228529
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 22:12	WG1228529
Bromochloromethane	U		0.145	0.500	1	01/25/2019 22:12	WG1228529
Bromoform	U		0.186	0.500	1	01/25/2019 22:12	WG1228529
Bromomethane	U		0.157	2.50	1	01/25/2019 22:12	WG1228529
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 22:12	WG1228529
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 22:12	WG1228529
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 22:12	WG1228529
Carbon disulfide	U		0.101	0.500	1	01/25/2019 22:12	WG1228529
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 22:12	WG1228529

JC 2/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/25/2019 22:12	WG1228529
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 22:12	WG1228529
Chloroethane	U		0.141	2.50	1	01/25/2019 22:12	WG1228529
Chloroform	U		0.0860	0.500	1	01/25/2019 22:12	WG1228529
Chloromethane	U		0.153	1.25	1	01/25/2019 22:12	WG1228529
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 22:12	WG1228529
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 22:12	WG1228529
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 22:12	WG1228529
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 22:12	WG1228529
Dibromomethane	U		0.117	0.500	1	01/25/2019 22:12	WG1228529
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 22:12	WG1228529
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 22:12	WG1228529
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 22:12	WG1228529
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 22:12	WG1228529
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 22:12	WG1228529
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 22:12	WG1228529
1,1-Dichloroethene	14.1		0.188	0.500	1	01/25/2019 22:12	WG1228529
cis-1,2-Dichloroethene	2050		9.33	50.0	100	01/28/2019 19:36	WG1229442
trans-1,2-Dichloroethene	11.5		0.152	0.500	1	01/25/2019 22:12	WG1228529
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 22:12	WG1228529
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 22:12	WG1228529
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 22:12	WG1228529
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 22:12	WG1228529
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 22:12	WG1228529
trans-1,4-Dichloro-2-butene	U UJ	J0	25.7	500	100	01/28/2019 19:36	WG1229442
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 22:12	WG1228529
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 22:12	WG1228529
Ethylbenzene	U		0.158	0.500	1	01/25/2019 22:12	WG1228529
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 22:12	WG1228529
2-Hexanone	U		0.757	5.00	1	01/25/2019 22:12	WG1228529
n-Hexane	U		0.305	5.00	1	01/25/2019 22:12	WG1228529
Iodomethane	U		0.377	10.0	1	01/25/2019 22:12	WG1228529
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 22:12	WG1228529
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 22:12	WG1228529
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 22:12	WG1228529
Methylene Chloride	U		1.07	2.50	1	01/25/2019 22:12	WG1228529
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 22:12	WG1228529
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 22:12	WG1228529
Naphthalene	U		0.174	2.50	1	01/25/2019 22:12	WG1228529
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 22:12	WG1228529
Styrene	U		0.117	0.500	1	01/25/2019 22:12	WG1228529
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 22:12	WG1228529
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 22:12	WG1228529
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 22:12	WG1228529
Tetrachloroethene	1720		19.9	50.0	100	01/28/2019 19:36	WG1229442
Toluene	U		0.412	0.500	1	01/25/2019 22:12	WG1228529
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 22:12	WG1228529
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 22:12	WG1228529
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 22:12	WG1228529
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 22:12	WG1228529
Trichloroethene	723		15.3	50.0	100	01/28/2019 19:36	WG1229442
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 22:12	WG1228529
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 22:12	WG1228529
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 22:12	WG1228529
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.0739	0.500	1	01/25/2019 22:12	WG1228529
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 22:12	WG1228529

JC 2/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 22:12	WG1228529
Vinyl chloride	U		11.8	50.0	100	01/28/2019 19:36	WG1229442
Xylenes, Total	U		0.316	1.50	1	01/25/2019 22:12	WG1228529
(S) Toluene-d8	*97.8*			*80.0-120*		*01/25/2019 22:12*	WG1228529
(S) Toluene-d8	*106*			*80.0-120*		*01/28/2019 19:36*	WG1229442
(S) Dibromofluoromethane	*91.3*			*75.0-120*		*01/25/2019 22:12*	WG1228529
(S) Dibromofluoromethane	*98.7*			*75.0-120*		*01/28/2019 19:36*	WG1229442
(S) a,a,a-Trifluorotoluene	*101*			*80.0-120*		*01/25/2019 22:12*	WG1228529
(S) a,a,a-Trifluorotoluene	*101*			*80.0-120*		*01/28/2019 19:36*	WG1229442
(S) 4-Bromofluorobenzene	*93.9*			*77.0-126*		*01/25/2019 22:12*	WG1228529
(S) 4-Bromofluorobenzene	*92.8*			*77.0-126*		*01/28/2019 19:36*	WG1229442

JC 2/22/19

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	206000		2710	20000	1	01/28/2019 14:14	WG1228505

Sample Narrative:

L1064133-05 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	22400		51.9	1000	1	01/25/2019 17:44	WG1228307
Nitrate	1980		22.7	100	1	01/25/2019 17:44	WG1228307
Sulfate	73600		77.4	5000	1	01/25/2019 17:44	WG1228307

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1780	B	102	1000	1	01/28/2019 14:56	WG1229248

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	3680		15.0	100	1	01/26/2019 15:17	WG1228813
Manganese	387		0.250	5.00	1	01/26/2019 15:17	WG1228813

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Gasoline Range Organics-NWTPH	105 J+		31.6	100	1	01/27/2019 22:54	WG1229109	JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*01/27/2019 22:54*	WG1229109	

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	235		0.287	0.678	1	01/28/2019 14:23	WG1228571
Ethane	2.71		0.296	1.29	1	01/28/2019 14:23	WG1228571
Ethene	U		0.422	1.27	1	01/28/2019 14:23	WG1228571

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Acetone	U UJ	J0	1.05	25.0	1	01/25/2019 22:31	WG1228529	
Acrylonitrile	U		0.873	5.00	1	01/25/2019 22:31	WG1228529	
Benzene	U		0.0896	0.500	1	01/25/2019 22:31	WG1228529	
Bromobenzene	U		0.133	0.500	1	01/25/2019 22:31	WG1228529	
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 22:31	WG1228529	
Bromochloromethane	U		0.145	0.500	1	01/25/2019 22:31	WG1228529	
Bromoform	U		0.186	0.500	1	01/25/2019 22:31	WG1228529	
Bromomethane	U		0.157	2.50	1	01/25/2019 22:31	WG1228529	
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 22:31	WG1228529	JC 2/22/19
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 22:31	WG1228529	
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 22:31	WG1228529	
Carbon disulfide	U		0.101	0.500	1	01/25/2019 22:31	WG1228529	
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 22:31	WG1228529	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/25/2019 22:31	WG1228529
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 22:31	WG1228529
Chloroethane	U		0.141	2.50	1	01/25/2019 22:31	WG1228529
Chloroform	U		0.0860	0.500	1	01/25/2019 22:31	WG1228529
Chloromethane	U		0.153	1.25	1	01/25/2019 22:31	WG1228529
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 22:31	WG1228529
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 22:31	WG1228529
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 22:31	WG1228529
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 22:31	WG1228529
Dibromomethane	U		0.117	0.500	1	01/25/2019 22:31	WG1228529
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 22:31	WG1228529
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 22:31	WG1228529
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 22:31	WG1228529
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 22:31	WG1228529
1,1-Dichloroethane	1.61		0.114	0.500	1	01/25/2019 22:31	WG1228529
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 22:31	WG1228529
1,1-Dichloroethene	0.883		0.188	0.500	1	01/25/2019 22:31	WG1228529
cis-1,2-Dichloroethene	60.5		0.0933	0.500	1	01/28/2019 18:55	WG1229442
trans-1,2-Dichloroethene	0.194	J J	0.152	0.500	1	01/25/2019 22:31	WG1228529
1,2-Dichloropropane	0.756		0.190	0.500	1	01/25/2019 22:31	WG1228529
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 22:31	WG1228529
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 22:31	WG1228529
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 22:31	WG1228529
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 22:31	WG1228529
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	01/28/2019 18:55	WG1229442
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 22:31	WG1228529
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 22:31	WG1228529
Ethylbenzene	U		0.158	0.500	1	01/25/2019 22:31	WG1228529
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 22:31	WG1228529
2-Hexanone	U		0.757	5.00	1	01/25/2019 22:31	WG1228529
n-Hexane	U		0.305	5.00	1	01/25/2019 22:31	WG1228529
Iodomethane	U		0.377	10.0	1	01/25/2019 22:31	WG1228529
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 22:31	WG1228529
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 22:31	WG1228529
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 22:31	WG1228529
Methylene Chloride	U		1.07	2.50	1	01/25/2019 22:31	WG1228529
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 22:31	WG1228529
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 22:31	WG1228529
Naphthalene	U		0.174	2.50	1	01/25/2019 22:31	WG1228529
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 22:31	WG1228529
Styrene	U		0.117	0.500	1	01/25/2019 22:31	WG1228529
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 22:31	WG1228529
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 22:31	WG1228529
1,1,2-Trichlorotrifluoroethane	0.394	J J	0.164	0.500	1	01/25/2019 22:31	WG1228529
Tetrachloroethene	125		0.199	0.500	1	01/25/2019 22:31	WG1228529
Toluene	U		0.412	0.500	1	01/25/2019 22:31	WG1228529
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 22:31	WG1228529
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 22:31	WG1228529
1,1,1-Trichloroethane	0.255	J J	0.0940	0.500	1	01/25/2019 22:31	WG1228529
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 22:31	WG1228529
Trichloroethene	34.3		0.153	0.500	1	01/25/2019 22:31	WG1228529
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 22:31	WG1228529
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 22:31	WG1228529
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 22:31	WG1228529
1,2,3-Trimethylbenzene	U	UJ J0 J4	0.0739	0.500	1	01/25/2019 22:31	WG1228529
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 22:31	WG1228529

JC 2/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 22:31	WG1228529
Vinyl chloride	1.64		0.118	0.500	1	01/28/2019 18:55	WG1229442
Xylenes, Total	U		0.316	1.50	1	01/25/2019 22:31	WG1228529
(S) Toluene-d8	*100*			*80.0-120*		*01/25/2019 22:31*	WG1228529
(S) Toluene-d8	*107*			*80.0-120*		*01/28/2019 18:55*	WG1229442
(S) Dibromofluoromethane	*92.3*			*75.0-120*		*01/25/2019 22:31*	WG1228529
(S) Dibromofluoromethane	*100*			*75.0-120*		*01/28/2019 18:55*	WG1229442
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*		*01/25/2019 22:31*	WG1228529
(S) a,a,a-Trifluorotoluene	*99.3*			*80.0-120*		*01/28/2019 18:55*	WG1229442
(S) 4-Bromofluorobenzene	*95.1*			*77.0-126*		*01/25/2019 22:31*	WG1228529
(S) 4-Bromofluorobenzene	*91.7*			*77.0-126*		*01/28/2019 18:55*	WG1229442

JC 2/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/27/2019 21:01	WG1229109
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*01/27/2019 21:01*	WG1229109

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/25/2019 17:39	WG1228529
Acrylonitrile	U		0.873	5.00	1	01/25/2019 17:39	WG1228529
Benzene	U		0.0896	0.500	1	01/25/2019 17:39	WG1228529
Bromobenzene	U		0.133	0.500	1	01/25/2019 17:39	WG1228529
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 17:39	WG1228529
Bromochloromethane	U		0.145	0.500	1	01/25/2019 17:39	WG1228529
Bromoform	U		0.186	0.500	1	01/25/2019 17:39	WG1228529
Bromomethane	U		0.157	2.50	1	01/25/2019 17:39	WG1228529
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 17:39	WG1228529
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 17:39	WG1228529
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 17:39	WG1228529
Carbon disulfide	U		0.101	0.500	1	01/25/2019 17:39	WG1228529
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 17:39	WG1228529
Chlorobenzene	U		0.140	0.500	1	01/25/2019 17:39	WG1228529
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 17:39	WG1228529
Chloroethane	U		0.141	2.50	1	01/25/2019 17:39	WG1228529
Chloroform	U		0.0860	0.500	1	01/25/2019 17:39	WG1228529
Chloromethane	U		0.153	1.25	1	01/25/2019 17:39	WG1228529
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 17:39	WG1228529
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 17:39	WG1228529
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 17:39	WG1228529
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 17:39	WG1228529
Dibromomethane	U		0.117	0.500	1	01/25/2019 17:39	WG1228529
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 17:39	WG1228529
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 17:39	WG1228529
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 17:39	WG1228529
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 17:39	WG1228529
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 17:39	WG1228529
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 17:39	WG1228529
1,1-Dichloroethene	U		0.188	0.500	1	01/25/2019 17:39	WG1228529
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/25/2019 17:39	WG1228529
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/25/2019 17:39	WG1228529
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 17:39	WG1228529
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 17:39	WG1228529
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 17:39	WG1228529
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 17:39	WG1228529
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 17:39	WG1228529
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	01/28/2019 17:52	WG1229442
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 17:39	WG1228529
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 17:39	WG1228529
Ethylbenzene	U		0.158	0.500	1	01/25/2019 17:39	WG1228529
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 17:39	WG1228529
2-Hexanone	U		0.757	5.00	1	01/25/2019 17:39	WG1228529
n-Hexane	U		0.305	5.00	1	01/25/2019 17:39	WG1228529
Iodomethane	U		0.377	10.0	1	01/25/2019 17:39	WG1228529
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 17:39	WG1228529
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 17:39	WG1228529
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 17:39	WG1228529

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/25/2019 17:39	WG1228529
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 17:39	WG1228529
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 17:39	WG1228529
Naphthalene	U		0.174	2.50	1	01/25/2019 17:39	WG1228529
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 17:39	WG1228529
Styrene	U		0.117	0.500	1	01/25/2019 17:39	WG1228529
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 17:39	WG1228529
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 17:39	WG1228529
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 17:39	WG1228529
Tetrachloroethene	U		0.199	0.500	1	01/25/2019 17:39	WG1228529
Toluene	0.561		0.412	0.500	1	01/25/2019 17:39	WG1228529
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 17:39	WG1228529
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 17:39	WG1228529
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 17:39	WG1228529
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 17:39	WG1228529
Trichloroethene	U		0.153	0.500	1	01/25/2019 17:39	WG1228529
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 17:39	WG1228529
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 17:39	WG1228529
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 17:39	WG1228529
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.0739	0.500	1	01/25/2019 17:39	WG1228529
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 17:39	WG1228529
Vinyl acetate	U		0.645	5.00	1	01/25/2019 17:39	WG1228529
Vinyl chloride	U		0.118	0.500	1	01/25/2019 17:39	WG1228529
Xylenes, Total	U		0.316	1.50	1	01/25/2019 17:39	WG1228529
(S) Toluene-d8	*99.5*			*80.0-120*		*01/25/2019 17:39*	WG1228529
(S) Toluene-d8	*105*			*80.0-120*		*01/28/2019 17:52*	WG1229442
(S) Dibromofluoromethane	*91.2*			*75.0-120*		*01/25/2019 17:39*	WG1228529
(S) Dibromofluoromethane	*100*			*75.0-120*		*01/28/2019 17:52*	WG1229442
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*		*01/25/2019 17:39*	WG1228529
(S) a,a,a-Trifluorotoluene	*99.6*			*80.0-120*		*01/28/2019 17:52*	WG1229442
(S) 4-Bromofluorobenzene	*93.3*			*77.0-126*		*01/25/2019 17:39*	WG1228529
(S) 4-Bromofluorobenzene	*91.3*			*77.0-126*		*01/28/2019 17:52*	WG1229442

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/28/2019 15:44	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 15:44	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 15:44	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 15:44	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 15:44	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 15:44	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 15:44	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 15:44	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 15:44	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 15:44	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 15:44	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 15:44	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 15:44	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 15:44	WG1229314
cis-1,2-Dichloroethene	5.08		0.0933	0.500	1	01/28/2019 15:44	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 15:44	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 15:44	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 15:44	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 15:44	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 15:44	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 15:44	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 15:44	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 15:44	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 15:44	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 15:44	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 15:44	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 15:44	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 15:44	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 15:44	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 15:44	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 15:44	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 15:44	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 15:44	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 15:44	WG1229314
Naphthalene	U		0.174	2.50	1	01/29/2019 01:19	WG1229488
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 15:44	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 15:44	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 15:44	WG1229314
1,1,2,2-Tetrachloroethane	U UJ	J0	0.130	0.500	1	01/28/2019 15:44	WG1229314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 15:44	WG1229314
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 15:44	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 15:44	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 15:44	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 15:44	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 15:44	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 15:44	WG1229314
Trichloroethene	0.263 J	J	0.153	0.500	1	01/28/2019 15:44	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 15:44	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 15:44	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 15:44	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 15:44	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 15:44	WG1229314

JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	01/28/2019 17:00	WG1229419
Vinyl chloride	U		0.118	0.500	1	01/28/2019 15:44	WG1229314
Xylenes, Total	U		0.316	1.50	1	01/28/2019 15:44	WG1229314
(S) Toluene-d8	*106*			*80.0-120*		*01/28/2019 15:44*	WG1229314
(S) Toluene-d8	*114*			*80.0-120*		*01/28/2019 17:00*	WG1229419
(S) Toluene-d8	*106*			*80.0-120*		*01/29/2019 01:19*	WG1229488
(S) Dibromofluoromethane	*98.4*			*75.0-120*		*01/28/2019 15:44*	WG1229314
(S) Dibromofluoromethane	*102*			*75.0-120*		*01/28/2019 17:00*	WG1229419
(S) Dibromofluoromethane	*97.7*			*75.0-120*		*01/29/2019 01:19*	WG1229488
(S) a,a,a-Trifluorotoluene	*106*			*80.0-120*		*01/28/2019 15:44*	WG1229314
(S) a,a,a-Trifluorotoluene	*108*			*80.0-120*		*01/28/2019 17:00*	WG1229419
(S) a,a,a-Trifluorotoluene	*106*			*80.0-120*		*01/29/2019 01:19*	WG1229488
(S) 4-Bromofluorobenzene	*89.1*			*77.0-126*		*01/28/2019 15:44*	WG1229314
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*01/28/2019 17:00*	WG1229419
(S) 4-Bromofluorobenzene	*88.9*			*77.0-126*		*01/29/2019 01:19*	WG1229488

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	7640		2.87	6.78	10	01/29/2019 14:16	WG1229545
Ethane	25.4		0.296	1.29	1	01/29/2019 11:23	WG1229545
Ethene	8.27		0.422	1.27	1	01/29/2019 11:23	WG1229545

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/28/2019 16:04	WG1229314
Acrylonitrile	U		0.873	5.00	1	01/28/2019 16:04	WG1229314
Benzene	0.142 J	J	0.0896	0.500	1	01/28/2019 16:04	WG1229314
Bromobenzene	U		0.133	0.500	1	01/28/2019 16:04	WG1229314
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 16:04	WG1229314
Bromochloromethane	U		0.145	0.500	1	01/28/2019 16:04	WG1229314
Bromoform	U		0.186	0.500	1	01/28/2019 16:04	WG1229314
Bromomethane	U		0.157	2.50	1	01/28/2019 16:04	WG1229314
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 16:04	WG1229314
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 16:04	WG1229314
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 16:04	WG1229314
Carbon disulfide	U		0.101	0.500	1	01/28/2019 16:04	WG1229314
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 16:04	WG1229314
Chlorobenzene	U		0.140	0.500	1	01/28/2019 16:04	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 16:04	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 16:04	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 16:04	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 16:04	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 16:04	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 16:04	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 16:04	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 16:04	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 16:04	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 16:04	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 16:04	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 16:04	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 16:04	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 16:04	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 16:04	WG1229314
1,1-Dichloroethene	0.310 J	J	0.188	0.500	1	01/28/2019 16:04	WG1229314
cis-1,2-Dichloroethene	12.5		0.0933	0.500	1	01/28/2019 16:04	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 16:04	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 16:04	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 16:04	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 16:04	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 16:04	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 16:04	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 16:04	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 16:04	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 16:04	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 16:04	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 16:04	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 16:04	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 16:04	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 16:04	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 16:04	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 16:04	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 16:04	WG1229314

JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/28/2019 16:04	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 16:04	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 16:04	WG1229314
Naphthalene	U		0.174	2.50	1	01/28/2019 16:04	WG1229314
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 16:04	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 16:04	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 16:04	WG1229314
1,1,2,2-Tetrachloroethane	U UJ	J0	0.130	0.500	1	01/28/2019 16:04	WG1229314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 16:04	WG1229314
Tetrachloroethene	0.328 J	J	0.199	0.500	1	01/28/2019 16:04	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 16:04	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 16:04	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 16:04	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 16:04	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 16:04	WG1229314
Trichloroethene	1.07		0.153	0.500	1	01/28/2019 16:04	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 16:04	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 16:04	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 16:04	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 16:04	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 16:04	WG1229314
Vinyl acetate	U UJ	J0	0.645	5.00	1	01/28/2019 17:19	WG1229419
Vinyl chloride	9.14		0.118	0.500	1	01/28/2019 16:04	WG1229314
Xylenes, Total	U		0.316	1.50	1	01/28/2019 16:04	WG1229314
(S) Toluene-d8	*104*			*80.0-120*		*01/28/2019 16:04*	WG1229314
(S) Toluene-d8	*113*			*80.0-120*		*01/28/2019 17:19*	WG1229419
(S) Dibromofluoromethane	*99.7*			*75.0-120*		*01/28/2019 16:04*	WG1229314
(S) Dibromofluoromethane	*101*			*75.0-120*		*01/28/2019 17:19*	WG1229419
(S) a,a,a-Trifluorotoluene	*105*			*80.0-120*		*01/28/2019 16:04*	WG1229314
(S) a,a,a-Trifluorotoluene	*107*			*80.0-120*		*01/28/2019 17:19*	WG1229419
(S) 4-Bromofluorobenzene	*87.0*			*77.0-126*		*01/28/2019 16:04*	WG1229314
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*01/28/2019 17:19*	WG1229419

JC 3/11/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	876000		2710	20000	1	01/28/2019 14:45	WG1228505

Sample Narrative:

L1064711-03 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	91000		51.9	1000	1	01/29/2019 11:41	WG1229560
Nitrate	66.5 J	J T8	22.7	100	1	01/29/2019 11:41	WG1229560
Sulfate	U		77.4	5000	1	01/29/2019 11:41	WG1229560

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	33700		510	5000	5	01/28/2019 23:04	WG1229248

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	20800		15.0	100	1	01/28/2019 22:36	WG1229218
Manganese	3710		0.250	5.00	1	01/28/2019 22:36	WG1229218

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	37.4 J	J	31.6	100	1	01/28/2019 16:05	WG1229391
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*01/28/2019 16:05*	WG1229391

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	11300		2.87	6.78	10	01/29/2019 14:20	WG1229545
Ethane	0.670 J	J	0.296	1.29	1	01/29/2019 11:29	WG1229545
Ethene	U		0.422	1.27	1	01/29/2019 11:29	WG1229545

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/28/2019 16:24	WG1229314
Acrylonitrile	U		0.873	5.00	1	01/28/2019 16:24	WG1229314
Benzene	0.133 J	J	0.0896	0.500	1	01/28/2019 16:24	WG1229314
Bromobenzene	U		0.133	0.500	1	01/28/2019 16:24	WG1229314
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 16:24	WG1229314
Bromochloromethane	U		0.145	0.500	1	01/28/2019 16:24	WG1229314
Bromoform	U		0.186	0.500	1	01/28/2019 16:24	WG1229314
Bromomethane	U		0.157	2.50	1	01/28/2019 16:24	WG1229314
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 16:24	WG1229314
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 16:24	WG1229314
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 16:24	WG1229314
Carbon disulfide	U		0.101	0.500	1	01/28/2019 16:24	WG1229314
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 16:24	WG1229314

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U			0.140	0.500	1	01/28/2019 16:24	WG1229314
Chlorodibromomethane	U			0.128	0.500	1	01/28/2019 16:24	WG1229314
Chloroethane	U			0.141	2.50	1	01/28/2019 16:24	WG1229314
Chloroform	U			0.0860	0.500	1	01/28/2019 16:24	WG1229314
Chloromethane	U			0.153	1.25	1	01/28/2019 16:24	WG1229314
2-Chlorotoluene	U			0.111	0.500	1	01/28/2019 16:24	WG1229314
4-Chlorotoluene	U			0.0972	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	01/28/2019 16:24	WG1229314
1,2-Dibromoethane	U			0.193	0.500	1	01/28/2019 16:24	WG1229314
Dibromomethane	U			0.117	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dichlorobenzene	U			0.101	0.500	1	01/28/2019 16:24	WG1229314
1,3-Dichlorobenzene	U			0.130	0.500	1	01/28/2019 16:24	WG1229314
1,4-Dichlorobenzene	U			0.121	0.500	1	01/28/2019 16:24	WG1229314
Dichlorodifluoromethane	U			0.127	2.50	1	01/28/2019 16:24	WG1229314
1,1-Dichloroethane	U			0.114	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dichloroethane	U			0.108	0.500	1	01/28/2019 16:24	WG1229314
1,1-Dichloroethene	U			0.188	0.500	1	01/28/2019 16:24	WG1229314
cis-1,2-Dichloroethene	1.83			0.0933	0.500	1	01/28/2019 16:24	WG1229314
trans-1,2-Dichloroethene	0.263	J	J	0.152	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dichloropropane	U			0.190	0.500	1	01/28/2019 16:24	WG1229314
1,1-Dichloropropene	U			0.128	0.500	1	01/28/2019 16:24	WG1229314
1,3-Dichloropropane	U			0.147	1.00	1	01/28/2019 16:24	WG1229314
cis-1,3-Dichloropropene	U			0.0976	0.500	1	01/28/2019 16:24	WG1229314
trans-1,3-Dichloropropene	U			0.222	0.500	1	01/28/2019 16:24	WG1229314
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	01/28/2019 16:24	WG1229314
2,2-Dichloropropane	U			0.0929	0.500	1	01/28/2019 16:24	WG1229314
Di-isopropyl ether	U			0.0924	0.500	1	01/28/2019 16:24	WG1229314
Ethylbenzene	U			0.158	0.500	1	01/28/2019 16:24	WG1229314
Hexachloro-1,3-butadiene	U			0.157	1.00	1	01/28/2019 16:24	WG1229314
2-Hexanone	U			0.757	5.00	1	01/28/2019 16:24	WG1229314
n-Hexane	U			0.305	5.00	1	01/28/2019 16:24	WG1229314
Iodomethane	U			0.377	10.0	1	01/28/2019 16:24	WG1229314
Isopropylbenzene	U			0.126	0.500	1	01/28/2019 16:24	WG1229314
p-Isopropyltoluene	U			0.138	0.500	1	01/28/2019 16:24	WG1229314
2-Butanone (MEK)	U			1.28	5.00	1	01/28/2019 16:24	WG1229314
Methylene Chloride	U			1.07	2.50	1	01/28/2019 16:24	WG1229314
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	01/28/2019 16:24	WG1229314
Methyl tert-butyl ether	U			0.102	0.500	1	01/28/2019 16:24	WG1229314
Naphthalene	U			0.174	2.50	1	01/29/2019 01:39	WG1229488
n-Propylbenzene	U			0.162	0.500	1	01/28/2019 16:24	WG1229314
Styrene	U			0.117	0.500	1	01/28/2019 16:24	WG1229314
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	01/28/2019 16:24	WG1229314
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.130	0.500	1	01/28/2019 16:24	WG1229314
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	01/28/2019 16:24	WG1229314
Tetrachloroethene	U			0.199	0.500	1	01/28/2019 16:24	WG1229314
Toluene	2.09			0.412	0.500	1	01/28/2019 16:24	WG1229314
1,2,3-Trichlorobenzene	U			0.164	0.500	1	01/28/2019 16:24	WG1229314
1,2,4-Trichlorobenzene	U			0.355	0.500	1	01/28/2019 16:24	WG1229314
1,1,1-Trichloroethane	U			0.0940	0.500	1	01/28/2019 16:24	WG1229314
1,1,2-Trichloroethane	U			0.186	0.500	1	01/28/2019 16:24	WG1229314
Trichloroethene	U			0.153	0.500	1	01/28/2019 16:24	WG1229314
Trichlorofluoromethane	U			0.130	2.50	1	01/28/2019 16:24	WG1229314
1,2,3-Trichloropropane	U			0.247	2.50	1	01/28/2019 16:24	WG1229314
1,2,4-Trimethylbenzene	U			0.123	0.500	1	01/28/2019 16:24	WG1229314
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	01/28/2019 16:24	WG1229314
1,3,5-Trimethylbenzene	U			0.124	0.500	1	01/28/2019 16:24	WG1229314

JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/28/2019 17:39	WG1229419
Vinyl chloride	2.01		0.118	0.500	1	01/28/2019 16:24	WG1229314
Xylenes, Total	U		0.316	1.50	1	01/28/2019 16:24	WG1229314
(S) Toluene-d8	*110*			*80.0-120*		*01/28/2019 16:24*	WG1229314
(S) Toluene-d8	*111*			*80.0-120*		*01/28/2019 17:39*	WG1229419
(S) Toluene-d8	*107*			*80.0-120*		*01/29/2019 01:39*	WG1229488
(S) Dibromofluoromethane	*98.4*			*75.0-120*		*01/28/2019 16:24*	WG1229314
(S) Dibromofluoromethane	*99.5*			*75.0-120*		*01/28/2019 17:39*	WG1229419
(S) Dibromofluoromethane	*99.7*			*75.0-120*		*01/29/2019 01:39*	WG1229488
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*		*01/28/2019 16:24*	WG1229314
(S) a,a,a-Trifluorotoluene	*109*			*80.0-120*		*01/28/2019 17:39*	WG1229419
(S) a,a,a-Trifluorotoluene	*106*			*80.0-120*		*01/29/2019 01:39*	WG1229488
(S) 4-Bromofluorobenzene	*87.3*			*77.0-126*		*01/28/2019 16:24*	WG1229314
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*01/28/2019 17:39*	WG1229419
(S) 4-Bromofluorobenzene	*85.3*			*77.0-126*		*01/29/2019 01:39*	WG1229488

JC 3/11/19

MW-161-012519

Collected date/time: 01/25/19 12:10

SAMPLE RESULTS - 04

L1064711

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	282000		2710	20000	1	01/28/2019 14:53	WG1228505

Sample Narrative:

L1064711-04 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	25500		51.9	1000	1	01/29/2019 12:03	WG1229560
Nitrate	U UJ	T8	22.7	100	1	01/29/2019 12:03	WG1229560
Sulfate	13400		77.4	5000	1	01/29/2019 12:03	WG1229560

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4520		102	1000	1	01/28/2019 23:17	WG1229248

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	7340		15.0	100	1	01/28/2019 22:40	WG1229218
Manganese	784		0.250	5.00	1	01/28/2019 22:40	WG1229218

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/28/2019 16:27	WG1229391
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*01/28/2019 16:27*	WG1229391

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	69.0		0.287	0.678	1	01/29/2019 11:34	WG1229545
Ethane	U		0.296	1.29	1	01/29/2019 11:34	WG1229545
Ethene	U		0.422	1.27	1	01/29/2019 11:34	WG1229545

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/28/2019 16:44	WG1229314
Acrylonitrile	U		0.873	5.00	1	01/28/2019 16:44	WG1229314
Benzene	U		0.0896	0.500	1	01/28/2019 16:44	WG1229314
Bromobenzene	U		0.133	0.500	1	01/28/2019 16:44	WG1229314
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 16:44	WG1229314
Bromochloromethane	U		0.145	0.500	1	01/28/2019 16:44	WG1229314
Bromoform	U		0.186	0.500	1	01/28/2019 16:44	WG1229314
Bromomethane	U		0.157	2.50	1	01/28/2019 16:44	WG1229314
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 16:44	WG1229314
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 16:44	WG1229314
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 16:44	WG1229314
Carbon disulfide	U		0.101	0.500	1	01/28/2019 16:44	WG1229314
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 16:44	WG1229314

JC 3/11/19

SAMPLE RESULTS - 04

L1064711

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U			0.140	0.500	1	01/28/2019 16:44	WG1229314
Chlorodibromomethane	U			0.128	0.500	1	01/28/2019 16:44	WG1229314
Chloroethane	U			0.141	2.50	1	01/28/2019 16:44	WG1229314
Chloroform	U			0.0860	0.500	1	01/28/2019 16:44	WG1229314
Chloromethane	U			0.153	1.25	1	01/28/2019 16:44	WG1229314
2-Chlorotoluene	U			0.111	0.500	1	01/28/2019 16:44	WG1229314
4-Chlorotoluene	U			0.0972	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	01/28/2019 16:44	WG1229314
1,2-Dibromoethane	U			0.193	0.500	1	01/28/2019 16:44	WG1229314
Dibromomethane	U			0.117	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dichlorobenzene	U			0.101	0.500	1	01/28/2019 16:44	WG1229314
1,3-Dichlorobenzene	U			0.130	0.500	1	01/28/2019 16:44	WG1229314
1,4-Dichlorobenzene	U			0.121	0.500	1	01/28/2019 16:44	WG1229314
Dichlorodifluoromethane	U			0.127	2.50	1	01/28/2019 16:44	WG1229314
1,1-Dichloroethane	U			0.114	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dichloroethane	U			0.108	0.500	1	01/28/2019 16:44	WG1229314
1,1-Dichloroethene	0.489	J	J	0.188	0.500	1	01/28/2019 16:44	WG1229314
cis-1,2-Dichloroethene	1.26			0.0933	0.500	1	01/28/2019 16:44	WG1229314
trans-1,2-Dichloroethene	U			0.152	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dichloropropane	U			0.190	0.500	1	01/28/2019 16:44	WG1229314
1,1-Dichloropropene	U			0.128	0.500	1	01/28/2019 16:44	WG1229314
1,3-Dichloropropane	U			0.147	1.00	1	01/28/2019 16:44	WG1229314
cis-1,3-Dichloropropene	U			0.0976	0.500	1	01/28/2019 16:44	WG1229314
trans-1,3-Dichloropropene	U			0.222	0.500	1	01/28/2019 16:44	WG1229314
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	01/28/2019 16:44	WG1229314
2,2-Dichloropropane	U			0.0929	0.500	1	01/28/2019 16:44	WG1229314
Di-isopropyl ether	U			0.0924	0.500	1	01/28/2019 16:44	WG1229314
Ethylbenzene	U			0.158	0.500	1	01/28/2019 16:44	WG1229314
Hexachloro-1,3-butadiene	U			0.157	1.00	1	01/28/2019 16:44	WG1229314
2-Hexanone	U			0.757	5.00	1	01/28/2019 16:44	WG1229314
n-Hexane	U			0.305	5.00	1	01/28/2019 16:44	WG1229314
Iodomethane	U			0.377	10.0	1	01/28/2019 16:44	WG1229314
Isopropylbenzene	U			0.126	0.500	1	01/28/2019 16:44	WG1229314
p-Isopropyltoluene	U			0.138	0.500	1	01/28/2019 16:44	WG1229314
2-Butanone (MEK)	U			1.28	5.00	1	01/28/2019 16:44	WG1229314
Methylene Chloride	U			1.07	2.50	1	01/28/2019 16:44	WG1229314
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	01/28/2019 16:44	WG1229314
Methyl tert-butyl ether	U			0.102	0.500	1	01/28/2019 16:44	WG1229314
Naphthalene	U			0.174	2.50	1	01/28/2019 16:44	WG1229314
n-Propylbenzene	U			0.162	0.500	1	01/28/2019 16:44	WG1229314
Styrene	U			0.117	0.500	1	01/28/2019 16:44	WG1229314
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	01/28/2019 16:44	WG1229314
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.130	0.500	1	01/28/2019 16:44	WG1229314
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	01/28/2019 16:44	WG1229314
Tetrachloroethene	0.472	J	J	0.199	0.500	1	01/28/2019 16:44	WG1229314
Toluene	U			0.412	0.500	1	01/28/2019 16:44	WG1229314
1,2,3-Trichlorobenzene	U			0.164	0.500	1	01/28/2019 16:44	WG1229314
1,2,4-Trichlorobenzene	U			0.355	0.500	1	01/28/2019 16:44	WG1229314
1,1,1-Trichloroethane	U			0.0940	0.500	1	01/28/2019 16:44	WG1229314
1,1,2-Trichloroethane	U			0.186	0.500	1	01/28/2019 16:44	WG1229314
Trichloroethene	1.66			0.153	0.500	1	01/28/2019 16:44	WG1229314
Trichlorofluoromethane	U			0.130	2.50	1	01/28/2019 16:44	WG1229314
1,2,3-Trichloropropane	U			0.247	2.50	1	01/28/2019 16:44	WG1229314
1,2,4-Trimethylbenzene	U			0.123	0.500	1	01/28/2019 16:44	WG1229314
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	01/28/2019 16:44	WG1229314
1,3,5-Trimethylbenzene	U			0.124	0.500	1	01/28/2019 16:44	WG1229314

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	01/28/2019 17:58	WG1229419
Vinyl chloride	U			0.118	0.500	1	01/28/2019 16:44	WG1229314
Xylenes, Total	U			0.316	1.50	1	01/28/2019 16:44	WG1229314
(S) Toluene-d8	*106*				*80.0-120*		*01/28/2019 16:44*	WG1229314
(S) Toluene-d8	*111*				*80.0-120*		*01/28/2019 17:58*	WG1229419
(S) Dibromofluoromethane	*98.5*				*75.0-120*		*01/28/2019 16:44*	WG1229314
(S) Dibromofluoromethane	*102*				*75.0-120*		*01/28/2019 17:58*	WG1229419
(S) a,a,a-Trifluorotoluene	*104*				*80.0-120*		*01/28/2019 16:44*	WG1229314
(S) a,a,a-Trifluorotoluene	*108*				*80.0-120*		*01/28/2019 17:58*	WG1229419
(S) 4-Bromofluorobenzene	*89.0*				*77.0-126*		*01/28/2019 16:44*	WG1229314
(S) 4-Bromofluorobenzene	*104*				*77.0-126*		*01/28/2019 17:58*	WG1229419

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	235000		2710	20000	1	01/28/2019 15:01	WG1228505

Sample Narrative:

L1064711-05 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	31700		51.9	1000	1	01/29/2019 12:14	WG1229560
Nitrate	U UJ	T8	22.7	100	1	01/29/2019 12:14	WG1229560
Sulfate	56900		77.4	5000	1	01/29/2019 12:14	WG1229560

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7930		204	2000	2	01/28/2019 23:29	WG1229248

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	11100		15.0	100	1	01/28/2019 22:45	WG1229218
Manganese	552		0.250	5.00	1	01/28/2019 22:45	WG1229218

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/28/2019 16:49	WG1229391
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*01/28/2019 16:49*	WG1229391

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	291		0.287	0.678	1	01/29/2019 11:36	WG1229545
Ethane	2.43		0.296	1.29	1	01/29/2019 11:36	WG1229545
Ethene	3.41		0.422	1.27	1	01/29/2019 11:36	WG1229545

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/28/2019 17:04	WG1229314
Acrylonitrile	U		0.873	5.00	1	01/28/2019 17:04	WG1229314
Benzene	U		0.0896	0.500	1	01/28/2019 17:04	WG1229314
Bromobenzene	U		0.133	0.500	1	01/28/2019 17:04	WG1229314
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 17:04	WG1229314
Bromochloromethane	U		0.145	0.500	1	01/28/2019 17:04	WG1229314
Bromoform	U		0.186	0.500	1	01/28/2019 17:04	WG1229314
Bromomethane	U		0.157	2.50	1	01/28/2019 17:04	WG1229314
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 17:04	WG1229314
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 17:04	WG1229314
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 17:04	WG1229314
Carbon disulfide	U		0.101	0.500	1	01/28/2019 17:04	WG1229314
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 17:04	WG1229314

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/28/2019 17:04	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 17:04	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 17:04	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 17:04	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 17:04	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 17:04	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 17:04	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 17:04	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 17:04	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 17:04	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 17:04	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 17:04	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 17:04	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 17:04	WG1229314
cis-1,2-Dichloroethene	0.459 J	J	0.0933	0.500	1	01/28/2019 17:04	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 17:04	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 17:04	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 17:04	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 17:04	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 17:04	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 17:04	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 17:04	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 17:04	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 17:04	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 17:04	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 17:04	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 17:04	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 17:04	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 17:04	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 17:04	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 17:04	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 17:04	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 17:04	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 17:04	WG1229314
Naphthalene	U		0.174	2.50	1	01/28/2019 17:04	WG1229314
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 17:04	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 17:04	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 17:04	WG1229314
1,1,2,2-Tetrachloroethane	U UJ	J0	0.130	0.500	1	01/28/2019 17:04	WG1229314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 17:04	WG1229314
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 17:04	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 17:04	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 17:04	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 17:04	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 17:04	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 17:04	WG1229314
Trichloroethene	0.587		0.153	0.500	1	01/28/2019 17:04	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 17:04	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 17:04	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 17:04	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 17:04	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 17:04	WG1229314

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U UJ	J0	0.645	5.00	1	01/28/2019 18:18	WG1229419
Vinyl chloride	5.46		0.118	0.500	1	01/28/2019 17:04	WG1229314
Xylenes, Total	U		0.316	1.50	1	01/28/2019 17:04	WG1229314
(S) Toluene-d8	*107*			*80.0-120*		*01/28/2019 17:04*	WG1229314
(S) Toluene-d8	*113*			*80.0-120*		*01/28/2019 18:18*	WG1229419
(S) Dibromofluoromethane	*98.5*			*75.0-120*		*01/28/2019 17:04*	WG1229314
(S) Dibromofluoromethane	*103*			*75.0-120*		*01/28/2019 18:18*	WG1229419
(S) a,a,a-Trifluorotoluene	*104*			*80.0-120*		*01/28/2019 17:04*	WG1229314
(S) a,a,a-Trifluorotoluene	*108*			*80.0-120*		*01/28/2019 18:18*	WG1229419
(S) 4-Bromofluorobenzene	*85.2*			*77.0-126*		*01/28/2019 17:04*	WG1229314
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*01/28/2019 18:18*	WG1229419

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	6.08	J	1.05	25.0	1	01/28/2019 14:03	WG1229314
Acrylonitrile	U		0.873	5.00	1	01/28/2019 14:03	WG1229314
Benzene	U		0.0896	0.500	1	01/28/2019 14:03	WG1229314
Bromobenzene	U		0.133	0.500	1	01/28/2019 14:03	WG1229314
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 14:03	WG1229314
Bromochloromethane	U		0.145	0.500	1	01/28/2019 14:03	WG1229314
Bromoform	U		0.186	0.500	1	01/28/2019 14:03	WG1229314
Bromomethane	U		0.157	2.50	1	01/28/2019 14:03	WG1229314
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 14:03	WG1229314
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 14:03	WG1229314
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 14:03	WG1229314
Carbon disulfide	U		0.101	0.500	1	01/28/2019 14:03	WG1229314
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 14:03	WG1229314
Chlorobenzene	U		0.140	0.500	1	01/28/2019 14:03	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 14:03	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 14:03	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 14:03	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 14:03	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 14:03	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 14:03	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 14:03	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 14:03	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 14:03	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 14:03	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 14:03	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 14:03	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 14:03	WG1229314
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/28/2019 14:03	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 14:03	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 14:03	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 14:03	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 14:03	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 14:03	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 14:03	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 14:03	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 14:03	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 14:03	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 14:03	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 14:03	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 14:03	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 14:03	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 14:03	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 14:03	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 14:03	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 14:03	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 14:03	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 14:03	WG1229314
Naphthalene	0.485	J	0.174	2.50	1	01/28/2019 14:03	WG1229314
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 14:03	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 14:03	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 14:03	WG1229314
1,1,2,2-Tetrachloroethane	U UJ	J0	0.130	0.500	1	01/28/2019 14:03	WG1229314

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 14:03	WG1229314
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 14:03	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 14:03	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 14:03	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 14:03	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 14:03	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 14:03	WG1229314
Trichloroethene	U		0.153	0.500	1	01/28/2019 14:03	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 14:03	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 14:03	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 14:03	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 14:03	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 14:03	WG1229314
Vinyl acetate	U UJ	J0	0.645	5.00	1	01/28/2019 16:40	WG1229419
Vinyl chloride	U		0.118	0.500	1	01/28/2019 14:03	WG1229314
Xylenes, Total	U		0.316	1.50	1	01/28/2019 14:03	WG1229314
(S) Toluene-d8	*104*			*80.0-120*		*01/28/2019 14:03*	WG1229314
(S) Toluene-d8	*112*			*80.0-120*		*01/28/2019 16:40*	WG1229419
(S) Dibromofluoromethane	*97.0*			*75.0-120*		*01/28/2019 14:03*	WG1229314
(S) Dibromofluoromethane	*101*			*75.0-120*		*01/28/2019 16:40*	WG1229419
(S) a,a,a-Trifluorotoluene	*105*			*80.0-120*		*01/28/2019 14:03*	WG1229314
(S) a,a,a-Trifluorotoluene	*107*			*80.0-120*		*01/28/2019 16:40*	WG1229419
(S) 4-Bromofluorobenzene	*87.6*			*77.0-126*		*01/28/2019 14:03*	WG1229314
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*01/28/2019 16:40*	WG1229419

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	784000		2710	20000	1	01/31/2019 16:36	WG1230371

Sample Narrative:

L1064837-01 WG1230371: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	10100		51.9	1000	1	01/29/2019 15:02	WG1229612
Nitrate	U		22.7	100	1	01/29/2019 15:02	WG1229612
Sulfate	U		77.4	5000	1	01/29/2019 15:02	WG1229612

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	27700		102	1000	1	01/29/2019 13:16	WG1229541

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2870		15.0	100	1	01/30/2019 13:36	WG1230036
Manganese	2370		0.250	5.00	1	01/30/2019 13:36	WG1230036

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 06:52	WG1230033
(S) a,a,a-Trifluorotoluene(FID)	*90.1*			*78.0-120*		*01/30/2019 06:52*	WG1230033

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3530		0.287	0.678	1	01/31/2019 13:29	WG1230299
Ethane	17.7		0.296	1.29	1	01/31/2019 13:29	WG1230299
Ethene	U		0.422	1.27	1	01/31/2019 13:29	WG1230299

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	6.98	U	~~J~~	1.05	25.0	1	01/29/2019 17:20	WG1229700
Acrylonitrile	U			0.873	5.00	1	01/29/2019 17:20	WG1229700
Benzene	0.442	J	J	0.0896	0.500	1	01/29/2019 17:20	WG1229700
Bromobenzene	U			0.133	0.500	1	01/29/2019 17:20	WG1229700
Bromodichloromethane	U			0.0800	0.500	1	01/29/2019 17:20	WG1229700
Bromochloromethane	U			0.145	0.500	1	01/29/2019 17:20	WG1229700
Bromoform	U			0.186	0.500	1	01/29/2019 17:20	WG1229700
Bromomethane	U			0.157	2.50	1	01/29/2019 17:20	WG1229700
n-Butylbenzene	U			0.143	0.500	1	01/29/2019 17:20	WG1229700
sec-Butylbenzene	U			0.134	0.500	1	01/29/2019 17:20	WG1229700
tert-Butylbenzene	U			0.183	0.500	1	01/29/2019 17:20	WG1229700
Carbon disulfide	U			0.101	0.500	1	01/29/2019 17:20	WG1229700
Carbon tetrachloride	U			0.159	0.500	1	01/29/2019 17:20	WG1229700

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/29/2019 17:20	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 17:20	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 17:20	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 17:20	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 17:20	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 17:20	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 17:20	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 17:20	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 17:20	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 17:20	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 17:20	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 17:20	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 17:20	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 17:20	WG1229700
cis-1,2-Dichloroethene	5.62		0.0933	0.500	1	01/29/2019 17:20	WG1229700
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 17:20	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 17:20	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 17:20	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 17:20	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 17:20	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 17:20	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 17:20	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 17:20	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 17:20	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 17:20	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 17:20	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 17:20	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 17:20	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 17:20	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 17:20	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 17:20	WG1229700
Methylene Chloride	U		1.07	2.50	1	01/29/2019 17:20	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 17:20	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 17:20	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 17:20	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 17:20	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 17:20	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 17:20	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 17:20	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 17:20	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 17:20	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 17:20	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 17:20	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 17:20	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 17:20	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 17:20	WG1229700
Trichloroethene	U		0.153	0.500	1	01/29/2019 17:20	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 17:20	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 17:20	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 17:20	WG1229700
1,2,3-Trimethylbenzene	U UJ	J0	0.0739	0.500	1	01/29/2019 17:20	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 17:20	WG1229700

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/29/2019 17:20	WG1229700
Vinyl chloride	3.45		0.118	0.500	1	01/29/2019 17:20	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 17:20	WG1229700
(S) Toluene-d8	*105*			*80.0-120*		*01/29/2019 17:20*	WG1229700
(S) Dibromofluoromethane	*98.9*			*75.0-120*		*01/29/2019 17:20*	WG1229700
(S) 4-Bromofluorobenzene	*86.8*			*77.0-126*		*01/29/2019 17:20*	WG1229700

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	779000		2710	20000	1	01/31/2019 16:43	WG1230371

Sample Narrative:

L1064837-02 WG1230371: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	10200		51.9	1000	1	01/29/2019 15:33	WG1229612
Nitrate	U		22.7	100	1	01/29/2019 15:33	WG1229612
Sulfate	U		77.4	5000	1	01/29/2019 15:33	WG1229612

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	28300		102	1000	1	01/29/2019 13:37	WG1229541

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2660		15.0	100	1	01/30/2019 13:41	WG1230036
Manganese	2460		0.250	5.00	1	01/30/2019 13:41	WG1230036

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 07:15	WG1230033
(S) a,a,a-Trifluorotoluene(FID)	*90.4*			*78.0-120*		*01/30/2019 07:15*	WG1230033

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3490		0.287	0.678	1	01/31/2019 13:33	WG1230299
Ethane	18.5		0.296	1.29	1	01/31/2019 13:33	WG1230299
Ethene	U		0.422	1.27	1	01/31/2019 13:33	WG1230299

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	8.44 U	~~J~~	1.05	25.0	1	01/29/2019 17:40	WG1229700
Acrylonitrile	U		0.873	5.00	1	01/29/2019 17:40	WG1229700
Benzene	0.410 J	J	0.0896	0.500	1	01/29/2019 17:40	WG1229700
Bromobenzene	U		0.133	0.500	1	01/29/2019 17:40	WG1229700
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 17:40	WG1229700
Bromochloromethane	U		0.145	0.500	1	01/29/2019 17:40	WG1229700
Bromoform	U		0.186	0.500	1	01/29/2019 17:40	WG1229700
Bromomethane	U		0.157	2.50	1	01/29/2019 17:40	WG1229700
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 17:40	WG1229700
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 17:40	WG1229700
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 17:40	WG1229700
Carbon disulfide	U		0.101	0.500	1	01/29/2019 17:40	WG1229700
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 17:40	WG1229700

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SAMPLE RESULTS - 02

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/29/2019 17:40	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 17:40	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 17:40	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 17:40	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 17:40	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 17:40	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 17:40	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 17:40	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 17:40	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 17:40	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 17:40	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 17:40	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 17:40	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 17:40	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 17:40	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 17:40	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 17:40	WG1229700
cis-1,2-Dichloroethene	5.67		0.0933	0.500	1	01/29/2019 17:40	WG1229700
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 17:40	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 17:40	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 17:40	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 17:40	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 17:40	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 17:40	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 17:40	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 17:40	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 17:40	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 17:40	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 17:40	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 17:40	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 17:40	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 17:40	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 17:40	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 17:40	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 17:40	WG1229700
Methylene Chloride	U		1.07	2.50	1	01/29/2019 17:40	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 17:40	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 17:40	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 17:40	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 17:40	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 17:40	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 17:40	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 17:40	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 17:40	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 17:40	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 17:40	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 17:40	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 17:40	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 17:40	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 17:40	WG1229700
Trichloroethene	0.208 J	J	0.153	0.500	1	01/29/2019 17:40	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 17:40	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 17:40	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 17:40	WG1229700
1,2,3-Trimethylbenzene	U UJ	J0	0.0739	0.500	1	01/29/2019 17:40	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 17:40	WG1229700

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/29/2019 17:40	WG1229700
Vinyl chloride	3.38		0.118	0.500	1	01/29/2019 17:40	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 17:40	WG1229700
(S) Toluene-d8	*105*			*80.0-120*		*01/29/2019 17:40*	WG1229700
(S) Dibromofluoromethane	*99.4*			*75.0-120*		*01/29/2019 17:40*	WG1229700
(S) 4-Bromofluorobenzene	*85.7*			*77.0-126*		*01/29/2019 17:40*	WG1229700

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 2/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	735000		2710	20000	1	01/31/2019 16:58	WG1230371

Sample Narrative:

L1064837-03 WG1230371: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	149000		260	5000	5	01/29/2019 16:05	WG1229612
Nitrate	U		22.7	100	1	01/29/2019 15:49	WG1229612
Sulfate	U		77.4	5000	1	01/29/2019 15:49	WG1229612

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	15100		102	1000	1	01/29/2019 13:53	WG1229541

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1980		15.0	100	1	01/30/2019 13:45	WG1230036
Manganese	1660		0.250	5.00	1	01/30/2019 13:45	WG1230036

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 07:38	WG1230033
(S) a,a,a-Trifluorotoluene(FID)	*90.3*			*78.0-120*		*01/30/2019 07:38*	WG1230033

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	13700		2.87	6.78	10	01/31/2019 15:08	WG1230299
Ethane	495		0.296	1.29	1	01/31/2019 13:36	WG1230299
Ethene	1140		0.422	1.27	1	01/31/2019 13:36	WG1230299

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/29/2019 18:00	WG1229700
Acrylonitrile	U		0.873	5.00	1	01/29/2019 18:00	WG1229700
Benzene	U		0.0896	0.500	1	01/29/2019 18:00	WG1229700
Bromobenzene	U		0.133	0.500	1	01/29/2019 18:00	WG1229700
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 18:00	WG1229700
Bromochloromethane	U		0.145	0.500	1	01/29/2019 18:00	WG1229700
Bromoform	U		0.186	0.500	1	01/29/2019 18:00	WG1229700
Bromomethane	U		0.157	2.50	1	01/29/2019 18:00	WG1229700
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 18:00	WG1229700
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 18:00	WG1229700
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 18:00	WG1229700
Carbon disulfide	0.716		0.101	0.500	1	01/29/2019 18:00	WG1229700
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 18:00	WG1229700

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MW-144-012819

Collected date/time: 01/28/19 14:25

SAMPLE RESULTS - 03

L1064837

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/29/2019 18:00	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 18:00	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 18:00	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 18:00	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 18:00	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 18:00	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 18:00	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 18:00	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 18:00	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 18:00	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 18:00	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 18:00	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 18:00	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 18:00	WG1229700
cis-1,2-Dichloroethene	10.4		0.0933	0.500	1	01/29/2019 18:00	WG1229700
trans-1,2-Dichloroethene	0.489 J	J	0.152	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 18:00	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 18:00	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 18:00	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 18:00	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 18:00	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 18:00	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 18:00	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 18:00	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 18:00	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 18:00	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 18:00	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 18:00	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 18:00	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 18:00	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 18:00	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 18:00	WG1229700
Methylene Chloride	U		1.07	2.50	1	01/29/2019 18:00	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 18:00	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 18:00	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 18:00	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 18:00	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 18:00	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 18:00	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 18:00	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 18:00	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 18:00	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 18:00	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 18:00	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 18:00	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 18:00	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 18:00	WG1229700
Trichloroethene	0.251	J	0.153	0.500	1	01/29/2019 18:00	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 18:00	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 18:00	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 18:00	WG1229700
1,2,3-Trimethylbenzene	U UJ	J0	0.0739	0.500	1	01/29/2019 18:00	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 18:00	WG1229700

JC 2/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/29/2019 18:00	WG1229700
Vinyl chloride	40.4		0.118	0.500	1	01/29/2019 18:00	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 18:00	WG1229700
(S) Toluene-d8	*108*			*80.0-120*		*01/29/2019 18:00*	WG1229700
(S) Dibromofluoromethane	*96.8*			*75.0-120*		*01/29/2019 18:00*	WG1229700
(S) 4-Bromofluorobenzene	*86.8*			*77.0-126*		*01/29/2019 18:00*	WG1229700

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 08:01	WG1230033
(S) a,a,a-Trifluorotoluene(FID)	*90.5*			*78.0-120*		*01/30/2019 08:01*	WG1230033

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	7.66 U	~~J~~	1.05	25.0	1	01/29/2019 18:21	WG1229700
Acrylonitrile	U		0.873	5.00	1	01/29/2019 18:21	WG1229700
Benzene	U		0.0896	0.500	1	01/29/2019 18:21	WG1229700
Bromobenzene	U		0.133	0.500	1	01/29/2019 18:21	WG1229700
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 18:21	WG1229700
Bromochloromethane	U		0.145	0.500	1	01/29/2019 18:21	WG1229700
Bromoform	U		0.186	0.500	1	01/29/2019 18:21	WG1229700
Bromomethane	U		0.157	2.50	1	01/29/2019 18:21	WG1229700
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 18:21	WG1229700
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 18:21	WG1229700
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 18:21	WG1229700
Carbon disulfide	U		0.101	0.500	1	01/29/2019 18:21	WG1229700
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 18:21	WG1229700
Chlorobenzene	U		0.140	0.500	1	01/29/2019 18:21	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 18:21	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 18:21	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 18:21	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 18:21	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 18:21	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 18:21	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 18:21	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 18:21	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 18:21	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 18:21	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 18:21	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 18:21	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 18:21	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 18:21	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 18:21	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 18:21	WG1229700
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/29/2019 18:21	WG1229700
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 18:21	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 18:21	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 18:21	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 18:21	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 18:21	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 18:21	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 18:21	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 18:21	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 18:21	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 18:21	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 18:21	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 18:21	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 18:21	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 18:21	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 18:21	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 18:21	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 18:21	WG1229700

JC 2/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	01/29/2019 18:21	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 18:21	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 18:21	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 18:21	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 18:21	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 18:21	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 18:21	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 18:21	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 18:21	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 18:21	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 18:21	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 18:21	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 18:21	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 18:21	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 18:21	WG1229700
Trichloroethene	U		0.153	0.500	1	01/29/2019 18:21	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 18:21	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 18:21	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 18:21	WG1229700
1,2,3-Trimethylbenzene	U UJ	J0	0.0739	0.500	1	01/29/2019 18:21	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 18:21	WG1229700
Vinyl acetate	U		0.645	5.00	1	01/29/2019 18:21	WG1229700
Vinyl chloride	U		0.118	0.500	1	01/29/2019 18:21	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 18:21	WG1229700
(S) Toluene-d8	*110*			*80.0-120*		*01/29/2019 18:21*	WG1229700
(S) Dibromofluoromethane	*97.8*			*75.0-120*		*01/29/2019 18:21*	WG1229700
(S) 4-Bromofluorobenzene	*85.3*			*77.0-126*		*01/29/2019 18:21*	WG1229700

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 08:23	WG1230033
(S) a,a,a-Trifluorotoluene(FID)	*90.4*			*78.0-120*		*01/30/2019 08:23*	WG1230033

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	7.59 U	~~J~~	1.05	25.0	1	01/29/2019 18:41	WG1229700
Acrylonitrile	U		0.873	5.00	1	01/29/2019 18:41	WG1229700
Benzene	U		0.0896	0.500	1	01/29/2019 18:41	WG1229700
Bromobenzene	U		0.133	0.500	1	01/29/2019 18:41	WG1229700
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 18:41	WG1229700
Bromochloromethane	U		0.145	0.500	1	01/29/2019 18:41	WG1229700
Bromoform	U		0.186	0.500	1	01/29/2019 18:41	WG1229700
Bromomethane	U		0.157	2.50	1	01/29/2019 18:41	WG1229700
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 18:41	WG1229700
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 18:41	WG1229700
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 18:41	WG1229700
Carbon disulfide	U		0.101	0.500	1	01/29/2019 18:41	WG1229700
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 18:41	WG1229700
Chlorobenzene	U		0.140	0.500	1	01/29/2019 18:41	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 18:41	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 18:41	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 18:41	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 18:41	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 18:41	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 18:41	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 18:41	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 18:41	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 18:41	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 18:41	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 18:41	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 18:41	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 18:41	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 18:41	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 18:41	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 18:41	WG1229700
cis-1,2-Dichloroethene	0.609		0.0933	0.500	1	01/29/2019 18:41	WG1229700
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 18:41	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 18:41	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 18:41	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 18:41	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 18:41	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 18:41	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 18:41	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 18:41	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 18:41	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 18:41	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 18:41	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 18:41	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 18:41	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 18:41	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 18:41	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 18:41	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 18:41	WG1229700

JC 2/20/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/29/2019 18:41	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 18:41	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 18:41	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 18:41	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 18:41	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 18:41	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 18:41	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 18:41	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 18:41	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 18:41	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 18:41	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 18:41	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 18:41	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 18:41	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 18:41	WG1229700
Trichloroethene	U		0.153	0.500	1	01/29/2019 18:41	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 18:41	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 18:41	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 18:41	WG1229700
1,2,3-Trimethylbenzene	U UJ	J0	0.0739	0.500	1	01/29/2019 18:41	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 18:41	WG1229700
Vinyl acetate	U		0.645	5.00	1	01/29/2019 18:41	WG1229700
Vinyl chloride	32.4		0.118	0.500	1	01/29/2019 18:41	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 18:41	WG1229700
(S) Toluene-d8	*107*			*80.0-120*		*01/29/2019 18:41*	WG1229700
(S) Dibromofluoromethane	*99.9*			*75.0-120*		*01/29/2019 18:41*	WG1229700
(S) 4-Bromofluorobenzene	*85.3*			*77.0-126*		*01/29/2019 18:41*	WG1229700

JC 2/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	53.1	B J	31.6	100	1	01/30/2019 00:20	WG1230033
(S) a,a,a-Trifluorotoluene(FID)	*88.7*			*78.0-120*		*01/30/2019 00:20*	WG1230033

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	11.6	J	1.05	25.0	1	01/29/2019 13:58	WG1229700
Acrylonitrile	U		0.873	5.00	1	01/29/2019 13:58	WG1229700
Benzene	U		0.0896	0.500	1	01/29/2019 13:58	WG1229700
Bromobenzene	U		0.133	0.500	1	01/29/2019 13:58	WG1229700
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 13:58	WG1229700
Bromochloromethane	U		0.145	0.500	1	01/29/2019 13:58	WG1229700
Bromoform	U		0.186	0.500	1	01/29/2019 13:58	WG1229700
Bromomethane	U		0.157	2.50	1	01/29/2019 13:58	WG1229700
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 13:58	WG1229700
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 13:58	WG1229700
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 13:58	WG1229700
Carbon disulfide	U		0.101	0.500	1	01/29/2019 13:58	WG1229700
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 13:58	WG1229700
Chlorobenzene	U		0.140	0.500	1	01/29/2019 13:58	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 13:58	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 13:58	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 13:58	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 13:58	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 13:58	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 13:58	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 13:58	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 13:58	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 13:58	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 13:58	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 13:58	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 13:58	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 13:58	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 13:58	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 13:58	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 13:58	WG1229700
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/29/2019 13:58	WG1229700
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 13:58	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 13:58	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 13:58	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 13:58	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 13:58	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 13:58	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 13:58	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 13:58	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 13:58	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 13:58	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 13:58	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 13:58	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 13:58	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 13:58	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 13:58	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 13:58	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 13:58	WG1229700

JC 2/20/19

TB-012819

Collected date/time: 01/28/19 15:00

SAMPLE RESULTS - 06

L1064837

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/29/2019 13:58	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 13:58	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 13:58	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 13:58	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 13:58	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 13:58	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 13:58	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 13:58	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 13:58	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 13:58	WG1229700
Toluene	2.44		0.412	0.500	1	01/29/2019 13:58	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 13:58	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 13:58	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 13:58	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 13:58	WG1229700
Trichloroethene	U		0.153	0.500	1	01/29/2019 13:58	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 13:58	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 13:58	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 13:58	WG1229700
1,2,3-Trimethylbenzene	U	UJ J0	0.0739	0.500	1	01/29/2019 13:58	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 13:58	WG1229700
Vinyl acetate	U		0.645	5.00	1	01/29/2019 13:58	WG1229700
Vinyl chloride	U		0.118	0.500	1	01/29/2019 13:58	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 13:58	WG1229700
(S) Toluene-d8	*109*			*80.0-120*		*01/29/2019 13:58*	WG1229700
(S) Dibromofluoromethane	*96.3*			*75.0-120*		*01/29/2019 13:58*	WG1229700
(S) 4-Bromofluorobenzene	*85.3*			*77.0-126*		*01/29/2019 13:58*	WG1229700

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 2/20/19

JC 2/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	43.7	J J	31.6	100	1	01/31/2019 04:19	WG1230592
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*78.0-120*		*01/31/2019 04:19*	WG1230592

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	02/01/2019 18:39	WG1231554	
Acrylonitrile	U		0.873	5.00	1	02/01/2019 18:39	WG1231554	
Benzene	0.182	J J	0.0896	0.500	1	02/01/2019 18:39	WG1231554	
Bromobenzene	U		0.133	0.500	1	02/01/2019 18:39	WG1231554	
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 18:39	WG1231554	
Bromochloromethane	U		0.145	0.500	1	02/01/2019 18:39	WG1231554	
Bromoform	U		0.186	0.500	1	02/01/2019 18:39	WG1231554	
Bromomethane	U		0.157	2.50	1	02/01/2019 18:39	WG1231554	
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 18:39	WG1231554	
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 18:39	WG1231554	
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 18:39	WG1231554	
Carbon disulfide	U		0.101	0.500	1	02/01/2019 18:39	WG1231554	
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 18:39	WG1231554	
Chlorobenzene	U		0.140	0.500	1	02/01/2019 18:39	WG1231554	
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 18:39	WG1231554	
Chloroethane	0.367	J J	0.141	2.50	1	02/01/2019 18:39	WG1231554	
Chloroform	U		0.0860	0.500	1	02/01/2019 18:39	WG1231554	
Chloromethane	U		0.153	1.25	1	02/01/2019 18:39	WG1231554	
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 18:39	WG1231554	
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 18:39	WG1231554	
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.325	2.50	1	02/01/2019 18:39	WG1231554	
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 18:39	WG1231554	
Dibromomethane	U		0.117	0.500	1	02/01/2019 18:39	WG1231554	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 18:39	WG1231554	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 18:39	WG1231554	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 18:39	WG1231554	
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 18:39	WG1231554	
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 18:39	WG1231554	
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 18:39	WG1231554	
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 18:39	WG1231554	
cis-1,2-Dichloroethene	0.774		0.0933	0.500	1	02/01/2019 18:39	WG1231554	
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 18:39	WG1231554	
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 18:39	WG1231554	
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 18:39	WG1231554	
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 18:39	WG1231554	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 18:39	WG1231554	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 18:39	WG1231554	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 18:39	WG1231554	
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 18:39	WG1231554	
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 18:39	WG1231554	
Ethylbenzene	U		0.158	0.500	1	02/01/2019 18:39	WG1231554	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 18:39	WG1231554	
2-Hexanone	U		0.757	5.00	1	02/01/2019 18:39	WG1231554	
n-Hexane	U		0.305	5.00	1	02/01/2019 18:39	WG1231554	
Iodomethane	U		0.377	10.0	1	02/01/2019 18:39	WG1231554	JC 2/20/19
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 18:39	WG1231554	
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 18:39	WG1231554	
2-Butanone (MEK)	3.81	J J J0	1.28	5.00	1	02/01/2019 18:39	WG1231554	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/01/2019 18:39	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 18:39	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 18:39	WG1231554
Naphthalene	U	UJ J0	0.174	2.50	1	02/01/2019 18:39	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 18:39	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 18:39	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 18:39	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	02/01/2019 18:39	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 18:39	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/03/2019 13:53	WG1231885
Toluene	0.516	J+	0.412	0.500	1	02/01/2019 18:39	WG1231554
1,2,3-Trichlorobenzene	U	UJ J0	0.164	0.500	1	02/01/2019 18:39	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 18:39	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 18:39	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 18:39	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 18:39	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 18:39	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 18:39	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 18:39	WG1231554
1,2,3-Trimethylbenzene	U	UJ J0 J4	0.0739	0.500	1	02/01/2019 18:39	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 18:39	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 18:39	WG1231554
Vinyl chloride	0.539		0.118	0.500	1	02/01/2019 18:39	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 18:39	WG1231554
(S) Toluene-d8	*104*			*80.0-120*		*02/01/2019 18:39*	WG1231554
(S) Toluene-d8	*100*			*80.0-120*		*02/03/2019 13:53*	WG1231885
(S) Dibromofluoromethane	*100*			*75.0-120*		*02/01/2019 18:39*	WG1231554
(S) 4-Bromofluorobenzene	*85.0*			*77.0-126*		*02/01/2019 18:39*	WG1231554
(S) 4-Bromofluorobenzene	*97.1*			*77.0-126*		*02/03/2019 13:53*	WG1231885
(S) 1,2-Dichloroethane-d4	*93.1*			*70.0-130*		*02/03/2019 13:53*	WG1231885

JC 2/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	255000		2710	20000	1	02/01/2019 16:47	WG1231115

Sample Narrative:

L1065152-02 WG1231115: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	43500		51.9	1000	1	01/30/2019 13:08	WG1230200
Nitrate	219		22.7	100	1	01/30/2019 13:08	WG1230200
Sulfate	55400		77.4	5000	1	01/30/2019 13:08	WG1230200

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4800		102	1000	1	01/31/2019 13:19	WG1230357

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	4850		15.0	100	1	01/30/2019 21:34	WG1230569
Manganese	193		0.250	5.00	1	01/30/2019 21:34	WG1230569

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/31/2019 04:41	WG1230592
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*78.0-120*		*01/31/2019 04:41*	WG1230592

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	276		0.287	0.678	1	01/31/2019 14:20	WG1230299
Ethane	U		0.296	1.29	1	01/31/2019 14:20	WG1230299
Ethene	U		0.422	1.27	1	01/31/2019 14:20	WG1230299

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/01/2019 19:00	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 19:00	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 19:00	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 19:00	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 19:00	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 19:00	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 19:00	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 19:00	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 19:00	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 19:00	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 19:00	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 19:00	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 19:00	WG1231554

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/01/2019 19:00	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 19:00	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 19:00	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 19:00	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 19:00	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 19:00	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.325	2.50	1	02/01/2019 19:00	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 19:00	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 19:00	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 19:00	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 19:00	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 19:00	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 19:00	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 19:00	WG1231554
cis-1,2-Dichloroethene	0.316	J J	0.0933	0.500	1	02/01/2019 19:00	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 19:00	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 19:00	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 19:00	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 19:00	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 19:00	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 19:00	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 19:00	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 19:00	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 19:00	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 19:00	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 19:00	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 19:00	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 19:00	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 19:00	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 19:00	WG1231554
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	02/01/2019 19:00	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 19:00	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 19:00	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 19:00	WG1231554
Naphthalene	U	UJ J0	0.174	2.50	1	02/01/2019 19:00	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 19:00	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 19:00	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 19:00	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	02/01/2019 19:00	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 19:00	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/03/2019 14:14	WG1231885
Toluene	U		0.412	0.500	1	02/01/2019 19:00	WG1231554
1,2,3-Trichlorobenzene	U	UJ J0	0.164	0.500	1	02/01/2019 19:00	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 19:00	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 19:00	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 19:00	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 19:00	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 19:00	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 19:00	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 19:00	WG1231554
1,2,3-Trimethylbenzene	U	UJ J0 J4	0.0739	0.500	1	02/01/2019 19:00	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 19:00	WG1231554

JC 2/20/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U			0.645	5.00	1	02/01/2019 19:00	WG1231554
Vinyl chloride	0.335	J	J	0.118	0.500	1	02/01/2019 19:00	WG1231554
Xylenes, Total	U			0.316	1.50	1	02/01/2019 19:00	WG1231554
(S) Toluene-d8	*104*				*80.0-120*		*02/01/2019 19:00*	WG1231554
(S) Toluene-d8	*101*				*80.0-120*		*02/03/2019 14:14*	WG1231885
(S) Dibromofluoromethane	*99.0*				*75.0-120*		*02/01/2019 19:00*	WG1231554
(S) 4-Bromofluorobenzene	*84.0*				*77.0-126*		*02/01/2019 19:00*	WG1231554
(S) 4-Bromofluorobenzene	*93.5*				*77.0-126*		*02/03/2019 14:14*	WG1231885
(S) 1,2-Dichloroethane-d4	*93.4*				*70.0-130*		*02/03/2019 14:14*	WG1231885

JC 2/20/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	14400 J+		3160	10000	100	01/31/2019 05:02	WG1230592
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*78.0-120*		*01/31/2019 05:02*	WG1230592

JC 3/19/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		105	2500	100	02/01/2019 19:20	WG1231554
Acrylonitrile	U		87.3	500	100	02/01/2019 19:20	WG1231554
Benzene	U		8.96	50.0	100	02/01/2019 19:20	WG1231554
Bromobenzene	U		13.3	50.0	100	02/01/2019 19:20	WG1231554
Bromodichloromethane	U		8.00	50.0	100	02/01/2019 19:20	WG1231554
Bromochloromethane	U		14.5	50.0	100	02/01/2019 19:20	WG1231554
Bromoform	U		18.6	50.0	100	02/01/2019 19:20	WG1231554
Bromomethane	U		15.7	250	100	02/01/2019 19:20	WG1231554
n-Butylbenzene	U		14.3	50.0	100	02/01/2019 19:20	WG1231554
sec-Butylbenzene	U		13.4	50.0	100	02/01/2019 19:20	WG1231554
tert-Butylbenzene	U		18.3	50.0	100	02/01/2019 19:20	WG1231554
Carbon disulfide	U		10.1	50.0	100	02/01/2019 19:20	WG1231554
Carbon tetrachloride	U		15.9	50.0	100	02/01/2019 19:20	WG1231554
Chlorobenzene	U		14.0	50.0	100	02/01/2019 19:20	WG1231554
Chlorodibromomethane	U		12.8	50.0	100	02/01/2019 19:20	WG1231554
Chloroethane	U		14.1	250	100	02/01/2019 19:20	WG1231554
Chloroform	U		8.60	50.0	100	02/01/2019 19:20	WG1231554
Chloromethane	U		15.3	125	100	02/01/2019 19:20	WG1231554
2-Chlorotoluene	U		11.1	50.0	100	02/01/2019 19:20	WG1231554
4-Chlorotoluene	U		9.72	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dibromo-3-Chloropropane	U UJ	J0	32.5	250	100	02/01/2019 19:20	WG1231554
1,2-Dibromoethane	U		19.3	50.0	100	02/01/2019 19:20	WG1231554
Dibromomethane	U		11.7	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dichlorobenzene	U		10.1	50.0	100	02/01/2019 19:20	WG1231554
1,3-Dichlorobenzene	U		13.0	50.0	100	02/01/2019 19:20	WG1231554
1,4-Dichlorobenzene	U		12.1	50.0	100	02/01/2019 19:20	WG1231554
Dichlorodifluoromethane	U		12.7	250	100	02/01/2019 19:20	WG1231554
1,1-Dichloroethane	U		11.4	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dichloroethane	U		10.8	50.0	100	02/01/2019 19:20	WG1231554
1,1-Dichloroethene	U		18.8	50.0	100	02/01/2019 19:20	WG1231554
cis-1,2-Dichloroethene	4350		9.33	50.0	100	02/01/2019 19:20	WG1231554
trans-1,2-Dichloroethene	U		15.2	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dichloropropane	U		19.0	50.0	100	02/01/2019 19:20	WG1231554
1,1-Dichloropropene	U		12.8	50.0	100	02/01/2019 19:20	WG1231554
1,3-Dichloropropane	U		14.7	100	100	02/01/2019 19:20	WG1231554
cis-1,3-Dichloropropene	U		9.76	50.0	100	02/01/2019 19:20	WG1231554
trans-1,3-Dichloropropene	U		22.2	50.0	100	02/01/2019 19:20	WG1231554
trans-1,4-Dichloro-2-butene	U		25.7	500	100	02/01/2019 19:20	WG1231554
2,2-Dichloropropane	U		9.29	50.0	100	02/01/2019 19:20	WG1231554
Di-isopropyl ether	U		9.24	50.0	100	02/01/2019 19:20	WG1231554
Ethylbenzene	U		15.8	50.0	100	02/01/2019 19:20	WG1231554
Hexachloro-1,3-butadiene	U		15.7	100	100	02/01/2019 19:20	WG1231554
2-Hexanone	U		75.7	500	100	02/01/2019 19:20	WG1231554
n-Hexane	U		30.5	500	100	02/01/2019 19:20	WG1231554
Iodomethane	U		37.7	1000	100	02/01/2019 19:20	WG1231554
Isopropylbenzene	U		12.6	50.0	100	02/01/2019 19:20	WG1231554
p-Isopropyltoluene	U		13.8	50.0	100	02/01/2019 19:20	WG1231554
2-Butanone (MEK)	U UJ	J0	128	500	100	02/01/2019 19:20	WG1231554

JC 2/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Methylene Chloride	U			107	250	100	02/01/2019 19:20	WG1231554
4-Methyl-2-pentanone (MIBK)	U			82.3	500	100	02/01/2019 19:20	WG1231554
Methyl tert-butyl ether	U			10.2	50.0	100	02/01/2019 19:20	WG1231554
Naphthalene	U	UJ	J0	17.4	250	100	02/01/2019 19:20	WG1231554
n-Propylbenzene	U			16.2	50.0	100	02/01/2019 19:20	WG1231554
Styrene	U			11.7	50.0	100	02/01/2019 19:20	WG1231554
1,1,1,2-Tetrachloroethane	U			12.0	50.0	100	02/01/2019 19:20	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ	J0	13.0	50.0	100	02/01/2019 19:20	WG1231554
1,1,2-Trichlorotrifluoroethane	U			16.4	50.0	100	02/01/2019 19:20	WG1231554
Tetrachloroethene	23700			199	500	1000	02/03/2019 18:06	WG1231885
Toluene	U			41.2	50.0	100	02/01/2019 19:20	WG1231554
1,2,3-Trichlorobenzene	U	UJ	J0	16.4	50.0	100	02/01/2019 19:20	WG1231554
1,2,4-Trichlorobenzene	U			35.5	50.0	100	02/01/2019 19:20	WG1231554
1,1,1-Trichloroethane	U			9.40	50.0	100	02/01/2019 19:20	WG1231554
1,1,2-Trichloroethane	U			18.6	50.0	100	02/01/2019 19:20	WG1231554
Trichloroethene	3800			15.3	50.0	100	02/01/2019 19:20	WG1231554
Trichlorofluoromethane	U			13.0	250	100	02/01/2019 19:20	WG1231554
1,2,3-Trichloropropane	U			24.7	250	100	02/01/2019 19:20	WG1231554
1,2,4-Trimethylbenzene	U			12.3	50.0	100	02/01/2019 19:20	WG1231554
1,2,3-Trimethylbenzene	U	UJ	J0 J4	7.39	50.0	100	02/01/2019 19:20	WG1231554
1,3,5-Trimethylbenzene	U			12.4	50.0	100	02/01/2019 19:20	WG1231554
Vinyl acetate	U			64.5	500	100	02/01/2019 19:20	WG1231554
Vinyl chloride	155			11.8	50.0	100	02/01/2019 19:20	WG1231554
Xylenes, Total	U			31.6	150	100	02/01/2019 19:20	WG1231554
(S) Toluene-d8	*105*				*80.0-120*		*02/01/2019 19:20*	WG1231554
(S) Toluene-d8	*101*				*80.0-120*		*02/03/2019 18:06*	WG1231885
(S) Dibromofluoromethane	*100*				*75.0-120*		*02/01/2019 19:20*	WG1231554
(S) 4-Bromofluorobenzene	*84.0*				*77.0-126*		*02/01/2019 19:20*	WG1231554
(S) 4-Bromofluorobenzene	*98.8*				*77.0-126*		*02/03/2019 18:06*	WG1231885
(S) 1,2-Dichloroethane-d4	*97.3*				*70.0-130*		*02/03/2019 18:06*	WG1231885

JC 2/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	400000		2710	20000	1	02/01/2019 16:54	WG1231115

Sample Narrative:

L1065152-04 WG1231115: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	58500		51.9	1000	1	01/30/2019 13:24	WG1230200
Nitrate	U		22.7	100	1	01/30/2019 13:24	WG1230200
Sulfate	3120 J	J	77.4	5000	1	01/30/2019 13:24	WG1230200

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7020		102	1000	1	01/31/2019 14:01	WG1230357

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1600		15.0	100	1	01/30/2019 21:38	WG1230569
Manganese	378		0.250	5.00	1	01/30/2019 21:38	WG1230569

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/31/2019 05:24	WG1230592
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*78.0-120*		*01/31/2019 05:24*	WG1230592

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	8520		2.87	6.78	10	01/31/2019 15:16	WG1230299
Ethane	134		0.296	1.29	1	01/31/2019 14:41	WG1230299
Ethene	U		0.422	1.27	1	01/31/2019 14:41	WG1230299

JC 2/20/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/01/2019 19:40	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 19:40	WG1231554
Benzene	0.141 J	J	0.0896	0.500	1	02/01/2019 19:40	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 19:40	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 19:40	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 19:40	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 19:40	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 19:40	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 19:40	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 19:40	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 19:40	WG1231554
Carbon disulfide	0.226 J	J	0.101	0.500	1	02/01/2019 19:40	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 19:40	WG1231554

MW-143-012919

Collected date/time: 01/29/19 12:45

SAMPLE RESULTS - 04

L1065152

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/01/2019 19:40	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 19:40	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 19:40	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 19:40	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 19:40	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 19:40	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.325	2.50	1	02/01/2019 19:40	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 19:40	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 19:40	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 19:40	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 19:40	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 19:40	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 19:40	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 19:40	WG1231554
cis-1,2-Dichloroethene	0.241 J	J	0.0933	0.500	1	02/01/2019 19:40	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 19:40	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 19:40	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 19:40	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 19:40	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 19:40	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 19:40	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 19:40	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 19:40	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 19:40	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 19:40	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 19:40	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 19:40	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 19:40	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 19:40	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 19:40	WG1231554
2-Butanone (MEK)	U UJ	J0	1.28	5.00	1	02/01/2019 19:40	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 19:40	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 19:40	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 19:40	WG1231554
Naphthalene	U UJ	J0	0.174	2.50	1	02/01/2019 19:40	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 19:40	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 19:40	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 19:40	WG1231554
1,1,2,2-Tetrachloroethane	U UJ	J0	0.130	0.500	1	02/01/2019 19:40	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 19:40	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/03/2019 14:32	WG1231885
Toluene	U		0.412	0.500	1	02/01/2019 19:40	WG1231554
1,2,3-Trichlorobenzene	U UJ	J0	0.164	0.500	1	02/01/2019 19:40	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 19:40	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 19:40	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 19:40	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 19:40	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 19:40	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 19:40	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 19:40	WG1231554
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.0739	0.500	1	02/01/2019 19:40	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 19:40	WG1231554

JC 2/20/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/01/2019 19:40	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/01/2019 19:40	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 19:40	WG1231554
(S) Toluene-d8	*103*			*80.0-120*		*02/01/2019 19:40*	WG1231554
(S) Toluene-d8	*99.2*			*80.0-120*		*02/03/2019 14:32*	WG1231885
(S) Dibromofluoromethane	*102*			*75.0-120*		*02/01/2019 19:40*	WG1231554
(S) 4-Bromofluorobenzene	*83.0*			*77.0-126*		*02/01/2019 19:40*	WG1231554
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*		*02/03/2019 14:32*	WG1231885
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*		*02/03/2019 14:32*	WG1231885

JC 2/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Gasoline Range Organics-NWTPH	11900	J+	3160	10000	100	01/31/2019 05:45	WG1230592	JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	*96.2*			*78.0-120*		*01/31/2019 05:45*	WG1230592	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		105	2500	100	02/01/2019 20:00	WG1231554	
Acrylonitrile	U		87.3	500	100	02/01/2019 20:00	WG1231554	
Benzene	U		8.96	50.0	100	02/01/2019 20:00	WG1231554	
Bromobenzene	U		13.3	50.0	100	02/01/2019 20:00	WG1231554	
Bromodichloromethane	U		8.00	50.0	100	02/01/2019 20:00	WG1231554	
Bromochloromethane	U		14.5	50.0	100	02/01/2019 20:00	WG1231554	
Bromoform	U		18.6	50.0	100	02/01/2019 20:00	WG1231554	
Bromomethane	U		15.7	250	100	02/01/2019 20:00	WG1231554	
n-Butylbenzene	U		14.3	50.0	100	02/01/2019 20:00	WG1231554	
sec-Butylbenzene	U		13.4	50.0	100	02/01/2019 20:00	WG1231554	
tert-Butylbenzene	U		18.3	50.0	100	02/01/2019 20:00	WG1231554	
Carbon disulfide	U		10.1	50.0	100	02/01/2019 20:00	WG1231554	
Carbon tetrachloride	U		15.9	50.0	100	02/01/2019 20:00	WG1231554	
Chlorobenzene	U		14.0	50.0	100	02/01/2019 20:00	WG1231554	
Chlorodibromomethane	U		12.8	50.0	100	02/01/2019 20:00	WG1231554	
Chloroethane	U		14.1	250	100	02/01/2019 20:00	WG1231554	
Chloroform	U		8.60	50.0	100	02/01/2019 20:00	WG1231554	
Chloromethane	U		15.3	125	100	02/01/2019 20:00	WG1231554	
2-Chlorotoluene	U		11.1	50.0	100	02/01/2019 20:00	WG1231554	
4-Chlorotoluene	U		9.72	50.0	100	02/01/2019 20:00	WG1231554	
1,2-Dibromo-3-Chloropropane	U	UJ J0	32.5	250	100	02/01/2019 20:00	WG1231554	
1,2-Dibromoethane	U		19.3	50.0	100	02/01/2019 20:00	WG1231554	
Dibromomethane	U		11.7	50.0	100	02/01/2019 20:00	WG1231554	
1,2-Dichlorobenzene	U		10.1	50.0	100	02/01/2019 20:00	WG1231554	
1,3-Dichlorobenzene	U		13.0	50.0	100	02/01/2019 20:00	WG1231554	
1,4-Dichlorobenzene	U		12.1	50.0	100	02/01/2019 20:00	WG1231554	
Dichlorodifluoromethane	U		12.7	250	100	02/01/2019 20:00	WG1231554	
1,1-Dichloroethane	U		11.4	50.0	100	02/01/2019 20:00	WG1231554	
1,2-Dichloroethane	U		10.8	50.0	100	02/01/2019 20:00	WG1231554	
1,1-Dichloroethene	35.9	J J	18.8	50.0	100	02/01/2019 20:00	WG1231554	
cis-1,2-Dichloroethene	18100		9.33	50.0	100	02/01/2019 20:00	WG1231554	
trans-1,2-Dichloroethene	36.7	J J	15.2	50.0	100	02/01/2019 20:00	WG1231554	
1,2-Dichloropropane	U		19.0	50.0	100	02/01/2019 20:00	WG1231554	
1,1-Dichloropropene	U		12.8	50.0	100	02/01/2019 20:00	WG1231554	
1,3-Dichloropropane	U		14.7	100	100	02/01/2019 20:00	WG1231554	
cis-1,3-Dichloropropene	U		9.76	50.0	100	02/01/2019 20:00	WG1231554	JC 2/20/19
trans-1,3-Dichloropropene	U		22.2	50.0	100	02/01/2019 20:00	WG1231554	
trans-1,4-Dichloro-2-butene	U		25.7	500	100	02/01/2019 20:00	WG1231554	
2,2-Dichloropropane	U		9.29	50.0	100	02/01/2019 20:00	WG1231554	
Di-isopropyl ether	U		9.24	50.0	100	02/01/2019 20:00	WG1231554	
Ethylbenzene	U		15.8	50.0	100	02/01/2019 20:00	WG1231554	
Hexachloro-1,3-butadiene	U		15.7	100	100	02/01/2019 20:00	WG1231554	
2-Hexanone	U		75.7	500	100	02/01/2019 20:00	WG1231554	
n-Hexane	U		30.5	500	100	02/01/2019 20:00	WG1231554	
Iodomethane	U		37.7	1000	100	02/01/2019 20:00	WG1231554	
Isopropylbenzene	U		12.6	50.0	100	02/01/2019 20:00	WG1231554	
p-Isopropyltoluene	U		13.8	50.0	100	02/01/2019 20:00	WG1231554	
2-Butanone (MEK)	U	UJ J0	128	500	100	02/01/2019 20:00	WG1231554	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		107	250	100	02/01/2019 20:00	WG1231554
4-Methyl-2-pentanone (MIBK)	U		82.3	500	100	02/01/2019 20:00	WG1231554
Methyl tert-butyl ether	U		10.2	50.0	100	02/01/2019 20:00	WG1231554
Naphthalene	U	UJ J0	17.4	250	100	02/01/2019 20:00	WG1231554
n-Propylbenzene	U		16.2	50.0	100	02/01/2019 20:00	WG1231554
Styrene	U		11.7	50.0	100	02/01/2019 20:00	WG1231554
1,1,1,2-Tetrachloroethane	U		12.0	50.0	100	02/01/2019 20:00	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ J0	13.0	50.0	100	02/01/2019 20:00	WG1231554
1,1,2-Trichlorotrifluoroethane	U		16.4	50.0	100	02/01/2019 20:00	WG1231554
Tetrachloroethene	303		19.9	50.0	100	02/01/2019 20:00	WG1231554
Toluene	U		41.2	50.0	100	02/01/2019 20:00	WG1231554
1,2,3-Trichlorobenzene	U	UJ J0	16.4	50.0	100	02/01/2019 20:00	WG1231554
1,2,4-Trichlorobenzene	U		35.5	50.0	100	02/01/2019 20:00	WG1231554
1,1,1-Trichloroethane	U		9.40	50.0	100	02/01/2019 20:00	WG1231554
1,1,2-Trichloroethane	U		18.6	50.0	100	02/01/2019 20:00	WG1231554
Trichloroethene	548		15.3	50.0	100	02/01/2019 20:00	WG1231554
Trichlorofluoromethane	U		13.0	250	100	02/01/2019 20:00	WG1231554
1,2,3-Trichloropropane	U		24.7	250	100	02/01/2019 20:00	WG1231554
1,2,4-Trimethylbenzene	U		12.3	50.0	100	02/01/2019 20:00	WG1231554
1,2,3-Trimethylbenzene	U	UJ J0 J4	7.39	50.0	100	02/01/2019 20:00	WG1231554
1,3,5-Trimethylbenzene	U		12.4	50.0	100	02/01/2019 20:00	WG1231554
Vinyl acetate	U		64.5	500	100	02/01/2019 20:00	WG1231554
Vinyl chloride	1370		11.8	50.0	100	02/01/2019 20:00	WG1231554
Xylenes, Total	U		31.6	150	100	02/01/2019 20:00	WG1231554
(S) Toluene-d8	*106*			*80.0-120*		*02/01/2019 20:00*	WG1231554
(S) Dibromofluoromethane	*100*			*75.0-120*		*02/01/2019 20:00*	WG1231554
(S) 4-Bromofluorobenzene	*84.0*			*77.0-126*		*02/01/2019 20:00*	WG1231554

JC 2/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/01/2019 17:19	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 17:19	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 17:19	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 17:19	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 17:19	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 17:19	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 17:19	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 17:19	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 17:19	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 17:19	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 17:19	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 17:19	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 17:19	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 17:19	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 17:19	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 17:19	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 17:19	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 17:19	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 17:19	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 17:19	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.325	2.50	1	02/01/2019 17:19	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 17:19	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 17:19	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 17:19	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 17:19	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 17:19	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 17:19	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 17:19	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 17:19	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 17:19	WG1231554
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/01/2019 17:19	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 17:19	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 17:19	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 17:19	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 17:19	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 17:19	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 17:19	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 17:19	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 17:19	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 17:19	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 17:19	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 17:19	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 17:19	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 17:19	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 17:19	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 17:19	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 17:19	WG1231554
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	02/01/2019 17:19	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 17:19	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 17:19	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 17:19	WG1231554
Naphthalene	U	UJ J0	0.174	2.50	1	02/01/2019 17:19	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 17:19	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 17:19	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 17:19	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	02/01/2019 17:19	WG1231554

JC 2/20/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 17:19	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 17:19	WG1231554
Toluene	1.29		0.412	0.500	1	02/01/2019 17:19	WG1231554
1,2,3-Trichlorobenzene	U	UJ J0	0.164	0.500	1	02/01/2019 17:19	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 17:19	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 17:19	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 17:19	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 17:19	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 17:19	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 17:19	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 17:19	WG1231554
1,2,3-Trimethylbenzene	U	UJ J0 J4	0.0739	0.500	1	02/01/2019 17:19	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 17:19	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 17:19	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/01/2019 17:19	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 17:19	WG1231554
(S) Toluene-d8	*109*			*80.0-120*		*02/01/2019 17:19*	WG1231554
(S) Dibromofluoromethane	*99.0*			*75.0-120*		*02/01/2019 17:19*	WG1231554
(S) 4-Bromofluorobenzene	*84.0*			*77.0-126*		*02/01/2019 17:19*	WG1231554

JC 2/20/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	564000		2710	20000	1	02/04/2019 17:55	WG1232234

Sample Narrative:

L1065595-01 WG1232234: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	49200		51.9	1000	1	01/31/2019 21:06	WG1230731
Nitrate	U		22.7	100	1	01/31/2019 21:06	WG1230731
Sulfate	37100		77.4	5000	1	01/31/2019 21:06	WG1230731

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14500		102	1000	1	01/31/2019 22:54	WG1230357

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2350		15.0	100	1	02/01/2019 14:54	WG1231148
Manganese	947		0.250	5.00	1	02/01/2019 14:54	WG1231148

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Gasoline Range Organics-NWTPH	663 J+		31.6	100	1	02/01/2019 20:27	WG1231257	JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*02/01/2019 20:27*	WG1231257	

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	14500		2.87	6.78	10	02/01/2019 14:47	WG1231475
Ethane	89.2		0.296	1.29	1	02/01/2019 13:16	WG1231081
Ethene	70.3		0.422	1.27	1	02/01/2019 13:16	WG1231081

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	02/01/2019 20:20	WG1231554	
Acrylonitrile	U		0.873	5.00	1	02/01/2019 20:20	WG1231554	
Benzene	0.215 J	J	0.0896	0.500	1	02/01/2019 20:20	WG1231554	
Bromobenzene	U		0.133	0.500	1	02/01/2019 20:20	WG1231554	
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 20:20	WG1231554	
Bromochloromethane	U		0.145	0.500	1	02/01/2019 20:20	WG1231554	
Bromoform	U		0.186	0.500	1	02/01/2019 20:20	WG1231554	
Bromomethane	U		0.157	2.50	1	02/01/2019 20:20	WG1231554	
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 20:20	WG1231554	
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 20:20	WG1231554	
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 20:20	WG1231554	
Carbon disulfide	U		0.101	0.500	1	02/01/2019 20:20	WG1231554	
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 20:20	WG1231554	JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/01/2019 20:20	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 20:20	WG1231554
Chloroethane	3.52		0.141	2.50	1	02/01/2019 20:20	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 20:20	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 20:20	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 20:20	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 20:20	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.325	2.50	1	02/01/2019 20:20	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 20:20	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 20:20	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 20:20	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 20:20	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 20:20	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 20:20	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 20:20	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 20:20	WG1231554
1,1-Dichloroethene	9.01		0.188	0.500	1	02/01/2019 20:20	WG1231554
cis-1,2-Dichloroethene	1130		2.33	12.5	25	02/03/2019 18:25	WG1231885
trans-1,2-Dichloroethene	14.4		0.152	0.500	1	02/01/2019 20:20	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 20:20	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 20:20	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 20:20	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 20:20	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 20:20	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 20:20	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 20:20	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 20:20	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 20:20	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 20:20	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 20:20	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 20:20	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 20:20	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 20:20	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 20:20	WG1231554
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	02/01/2019 20:20	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 20:20	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 20:20	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 20:20	WG1231554
Naphthalene	U	UJ J0	0.174	2.50	1	02/01/2019 20:20	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 20:20	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 20:20	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 20:20	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	02/01/2019 20:20	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 20:20	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 20:20	WG1231554
Toluene	0.715	J+	0.412	0.500	1	02/01/2019 20:20	WG1231554
1,2,3-Trichlorobenzene	U	UJ J0	0.164	0.500	1	02/01/2019 20:20	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 20:20	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 20:20	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 20:20	WG1231554
Trichloroethene	41.1		0.153	0.500	1	02/01/2019 20:20	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 20:20	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 20:20	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 20:20	WG1231554
1,2,3-Trimethylbenzene	U	UJ J0 J4	0.0739	0.500	1	02/01/2019 20:20	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 20:20	WG1231554

JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/01/2019 20:20	WG1231554
Vinyl chloride	474		2.95	12.5	25	02/03/2019 18:25	WG1231885
Xylenes, Total	U		0.316	1.50	1	02/01/2019 20:20	WG1231554
(S) Toluene-d8	*104*			*80.0-120*		*02/01/2019 20:20*	WG1231554
(S) Toluene-d8	*100*			*80.0-120*		*02/03/2019 18:25*	WG1231885
(S) Dibromofluoromethane	*98.0*			*75.0-120*		*02/01/2019 20:20*	WG1231554
(S) 4-Bromofluorobenzene	*84.0*			*77.0-126*		*02/01/2019 20:20*	WG1231554
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*02/03/2019 18:25*	WG1231885
(S) 1,2-Dichloroethane-d4	*89.5*			*70.0-130*		*02/03/2019 18:25*	WG1231885

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/01/2019 20:40	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 20:40	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 20:40	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 20:40	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 20:40	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 20:40	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 20:40	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 20:40	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 20:40	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 20:40	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 20:40	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 20:40	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 20:40	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 20:40	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 20:40	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 20:40	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 20:40	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 20:40	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 20:40	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 20:40	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.325	2.50	1	02/01/2019 20:40	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 20:40	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 20:40	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 20:40	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 20:40	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 20:40	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 20:40	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 20:40	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 20:40	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 20:40	WG1231554
cis-1,2-Dichloroethene	0.655		0.0933	0.500	1	02/01/2019 20:40	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 20:40	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 20:40	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 20:40	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 20:40	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 20:40	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 20:40	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 20:40	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 20:40	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 20:40	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 20:40	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 20:40	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 20:40	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 20:40	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 20:40	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 20:40	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 20:40	WG1231554
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	02/01/2019 20:40	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 20:40	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 20:40	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 20:40	WG1231554
Naphthalene	U	UJ J0	0.174	2.50	1	02/01/2019 20:40	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 20:40	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 20:40	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 20:40	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	02/01/2019 20:40	WG1231554

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 20:40	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 20:40	WG1231554
Toluene	U		0.412	0.500	1	02/01/2019 20:40	WG1231554
1,2,3-Trichlorobenzene	U UJ	J0	0.164	0.500	1	02/01/2019 20:40	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 20:40	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 20:40	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 20:40	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 20:40	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 20:40	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 20:40	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 20:40	WG1231554
1,2,3-Trimethylbenzene	U UJ	J0 J4	0.0739	0.500	1	02/01/2019 20:40	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 20:40	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 20:40	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/03/2019 14:52	WG1231885
Xylenes, Total	U		0.316	1.50	1	02/01/2019 20:40	WG1231554
(S) Toluene-d8	*106*			*80.0-120*		*02/01/2019 20:40*	WG1231554
(S) Toluene-d8	*102*			*80.0-120*		*02/03/2019 14:52*	WG1231885
(S) Dibromofluoromethane	*99.0*			*75.0-120*		*02/01/2019 20:40*	WG1231554
(S) 4-Bromofluorobenzene	*82.0*			*77.0-126*		*02/01/2019 20:40*	WG1231554
(S) 4-Bromofluorobenzene	*95.3*			*77.0-126*		*02/03/2019 14:52*	WG1231885
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*02/03/2019 14:52*	WG1231885

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l			ug/l	ug/l		date / time	
Acetone	U			5.25	125	5	02/01/2019 21:01	WG1231554
Acrylonitrile	U			4.36	25.0	5	02/01/2019 21:01	WG1231554
Benzene	1.02	J	J	0.448	2.50	5	02/01/2019 21:01	WG1231554
Bromobenzene	U			0.665	2.50	5	02/01/2019 21:01	WG1231554
Bromodichloromethane	U			0.400	2.50	5	02/01/2019 21:01	WG1231554
Bromochloromethane	U			0.725	2.50	5	02/01/2019 21:01	WG1231554
Bromoform	U			0.930	2.50	5	02/01/2019 21:01	WG1231554
Bromomethane	U			0.785	12.5	5	02/01/2019 21:01	WG1231554
n-Butylbenzene	U			0.715	2.50	5	02/01/2019 21:01	WG1231554
sec-Butylbenzene	U			0.670	2.50	5	02/01/2019 21:01	WG1231554
tert-Butylbenzene	U			0.915	2.50	5	02/01/2019 21:01	WG1231554
Carbon disulfide	U			0.505	2.50	5	02/01/2019 21:01	WG1231554
Carbon tetrachloride	U			0.795	2.50	5	02/01/2019 21:01	WG1231554
Chlorobenzene	U			0.700	2.50	5	02/01/2019 21:01	WG1231554
Chlorodibromomethane	U			0.640	2.50	5	02/01/2019 21:01	WG1231554
Chloroethane	U			0.705	12.5	5	02/01/2019 21:01	WG1231554
Chloroform	U			0.430	2.50	5	02/01/2019 21:01	WG1231554
Chloromethane	U			0.765	6.25	5	02/01/2019 21:01	WG1231554
2-Chlorotoluene	U			0.555	2.50	5	02/01/2019 21:01	WG1231554
4-Chlorotoluene	U			0.486	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ	J0	1.62	12.5	5	02/01/2019 21:01	WG1231554
1,2-Dibromoethane	U			0.965	2.50	5	02/01/2019 21:01	WG1231554
Dibromomethane	U			0.585	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dichlorobenzene	U			0.505	2.50	5	02/01/2019 21:01	WG1231554
1,3-Dichlorobenzene	U			0.650	2.50	5	02/01/2019 21:01	WG1231554
1,4-Dichlorobenzene	U			0.605	2.50	5	02/01/2019 21:01	WG1231554
Dichlorodifluoromethane	U			0.635	12.5	5	02/01/2019 21:01	WG1231554
1,1-Dichloroethane	U			0.570	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dichloroethane	U			0.540	2.50	5	02/01/2019 21:01	WG1231554
1,1-Dichloroethene	8.61			0.940	2.50	5	02/01/2019 21:01	WG1231554
cis-1,2-Dichloroethene	6330			18.7	100	200	02/03/2019 18:44	WG1231885
trans-1,2-Dichloroethene	22.8			0.760	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dichloropropane	U			0.950	2.50	5	02/01/2019 21:01	WG1231554
1,1-Dichloropropene	U			0.640	2.50	5	02/01/2019 21:01	WG1231554
1,3-Dichloropropane	U			0.735	5.00	5	02/01/2019 21:01	WG1231554
cis-1,3-Dichloropropene	U			0.488	2.50	5	02/01/2019 21:01	WG1231554
trans-1,3-Dichloropropene	U			1.11	2.50	5	02/01/2019 21:01	WG1231554
trans-1,4-Dichloro-2-butene	U			1.28	25.0	5	02/01/2019 21:01	WG1231554
2,2-Dichloropropane	U			0.464	2.50	5	02/01/2019 21:01	WG1231554
Di-isopropyl ether	U			0.462	2.50	5	02/01/2019 21:01	WG1231554
Ethylbenzene	U			0.790	2.50	5	02/01/2019 21:01	WG1231554
Hexachloro-1,3-butadiene	U			0.785	5.00	5	02/01/2019 21:01	WG1231554
2-Hexanone	U			3.78	25.0	5	02/01/2019 21:01	WG1231554
n-Hexane	U			1.52	25.0	5	02/01/2019 21:01	WG1231554
Iodomethane	U			1.88	50.0	5	02/01/2019 21:01	WG1231554
Isopropylbenzene	U			0.630	2.50	5	02/01/2019 21:01	WG1231554
p-Isopropyltoluene	U			0.690	2.50	5	02/01/2019 21:01	WG1231554
2-Butanone (MEK)	U	UJ	J0	6.40	25.0	5	02/01/2019 21:01	WG1231554
Methylene Chloride	U			5.35	12.5	5	02/01/2019 21:01	WG1231554
4-Methyl-2-pentanone (MIBK)	U			4.12	25.0	5	02/01/2019 21:01	WG1231554
Methyl tert-butyl ether	U			0.510	2.50	5	02/01/2019 21:01	WG1231554
Naphthalene	U	UJ	J0	0.870	12.5	5	02/01/2019 21:01	WG1231554
n-Propylbenzene	U			0.810	2.50	5	02/01/2019 21:01	WG1231554
Styrene	U			0.585	2.50	5	02/01/2019 21:01	WG1231554
1,1,1,2-Tetrachloroethane	U			0.600	2.50	5	02/01/2019 21:01	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.650	2.50	5	02/01/2019 21:01	WG1231554

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MW-113-013019
Collected date/time: 01/30/19 10:55

SAMPLE RESULTS - 03

L1065595

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.820	2.50	5	02/01/2019 21:01	WG1231554
Tetrachloroethene	U		0.995	2.50	5	02/01/2019 21:01	WG1231554
Toluene	U		2.06	2.50	5	02/01/2019 21:01	WG1231554
1,2,3-Trichlorobenzene	U	UJ J0	0.820	2.50	5	02/01/2019 21:01	WG1231554
1,2,4-Trichlorobenzene	U		1.78	2.50	5	02/01/2019 21:01	WG1231554
1,1,1-Trichloroethane	U		0.470	2.50	5	02/01/2019 21:01	WG1231554
1,1,2-Trichloroethane	U		0.930	2.50	5	02/01/2019 21:01	WG1231554
Trichloroethene	2.81		0.765	2.50	5	02/01/2019 21:01	WG1231554
Trichlorofluoromethane	U		0.650	12.5	5	02/01/2019 21:01	WG1231554
1,2,3-Trichloropropane	U		1.24	12.5	5	02/01/2019 21:01	WG1231554
1,2,4-Trimethylbenzene	U		0.615	2.50	5	02/01/2019 21:01	WG1231554
1,2,3-Trimethylbenzene	U	UJ J0 J4	0.370	2.50	5	02/01/2019 21:01	WG1231554
1,3,5-Trimethylbenzene	U		0.620	2.50	5	02/01/2019 21:01	WG1231554
Vinyl acetate	U		3.22	25.0	5	02/01/2019 21:01	WG1231554
Vinyl chloride	34.8		0.590	2.50	5	02/01/2019 21:01	WG1231554
Xylenes, Total	U		1.58	7.50	5	02/01/2019 21:01	WG1231554
(S) Toluene-d8	*106*			*80.0-120*		*02/01/2019 21:01*	WG1231554
(S) Toluene-d8	*101*			*80.0-120*		*02/03/2019 18:44*	WG1231885
(S) Dibromofluoromethane	*102*			*75.0-120*		*02/01/2019 21:01*	WG1231554
(S) 4-Bromofluorobenzene	*85.0*			*77.0-126*		*02/01/2019 21:01*	WG1231554
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*02/03/2019 18:44*	WG1231885
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*02/03/2019 18:44*	WG1231885

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	3350	J	2710	20000	1	02/04/2019 18:11	WG1232234

Sample Narrative:

L1065595-04 WG1232234: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	122	J	51.9	1000	1	01/31/2019 21:22	WG1230731
Nitrate	45.8	J	22.7	100	1	01/31/2019 21:22	WG1230731
Sulfate	U		77.4	5000	1	01/31/2019 21:22	WG1230731

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	738	B J	102	1000	1	01/31/2019 23:16	WG1230357

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	42.2	J	15.0	100	1	02/01/2019 14:59	WG1231148
Manganese	1.22	J	0.250	5.00	1	02/01/2019 14:59	WG1231148

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	02/01/2019 20:49	WG1231257
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*02/01/2019 20:49*	WG1231257

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	11.1		0.287	0.678	1	02/01/2019 14:38	WG1231475
Ethane	U		0.296	1.29	1	02/01/2019 14:38	WG1231475
Ethene	U		0.422	1.27	1	02/01/2019 14:38	WG1231475

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/01/2019 21:21	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 21:21	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 21:21	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 21:21	WG1231554
Bromodichloromethane	0.221	J	0.0800	0.500	1	02/01/2019 21:21	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 21:21	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 21:21	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 21:21	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 21:21	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 21:21	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 21:21	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 21:21	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 21:21	WG1231554

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l			ug/l	ug/l		date / time		
Chlorobenzene	U			0.140	0.500	1	02/01/2019 21:21	WG1231554	
Chlorodibromomethane	U			0.128	0.500	1	02/01/2019 21:21	WG1231554	
Chloroethane	U			0.141	2.50	1	02/01/2019 21:21	WG1231554	
Chloroform	0.260		B J	0.0860	0.500	1	02/01/2019 21:21	WG1231554	
Chloromethane	U			0.153	1.25	1	02/01/2019 21:21	WG1231554	
2-Chlorotoluene	U			0.111	0.500	1	02/01/2019 21:21	WG1231554	
4-Chlorotoluene	U			0.0972	0.500	1	02/01/2019 21:21	WG1231554	
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	02/01/2019 21:21	WG1231554	
1,2-Dibromoethane	U			0.193	0.500	1	02/01/2019 21:21	WG1231554	
Dibromomethane	U			0.117	0.500	1	02/01/2019 21:21	WG1231554	
1,2-Dichlorobenzene	U			0.101	0.500	1	02/01/2019 21:21	WG1231554	
1,3-Dichlorobenzene	U			0.130	0.500	1	02/01/2019 21:21	WG1231554	
1,4-Dichlorobenzene	U			0.121	0.500	1	02/01/2019 21:21	WG1231554	
Dichlorodifluoromethane	U			0.127	2.50	1	02/01/2019 21:21	WG1231554	
1,1-Dichloroethane	U			0.114	0.500	1	02/01/2019 21:21	WG1231554	
1,2-Dichloroethane	U			0.108	0.500	1	02/01/2019 21:21	WG1231554	
1,1-Dichloroethene	U			0.188	0.500	1	02/01/2019 21:21	WG1231554	
cis-1,2-Dichloroethene	U			0.0933	0.500	1	02/03/2019 15:11	WG1231885	
trans-1,2-Dichloroethene	U			0.152	0.500	1	02/01/2019 21:21	WG1231554	
1,2-Dichloropropane	U			0.190	0.500	1	02/01/2019 21:21	WG1231554	
1,1-Dichloropropene	U			0.128	0.500	1	02/01/2019 21:21	WG1231554	
1,3-Dichloropropane	U			0.147	1.00	1	02/01/2019 21:21	WG1231554	
cis-1,3-Dichloropropene	U			0.0976	0.500	1	02/01/2019 21:21	WG1231554	
trans-1,3-Dichloropropene	U			0.222	0.500	1	02/01/2019 21:21	WG1231554	
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	02/01/2019 21:21	WG1231554	
2,2-Dichloropropane	U			0.0929	0.500	1	02/01/2019 21:21	WG1231554	
Di-isopropyl ether	U			0.0924	0.500	1	02/01/2019 21:21	WG1231554	
Ethylbenzene	U			0.158	0.500	1	02/01/2019 21:21	WG1231554	
Hexachloro-1,3-butadiene	U			0.157	1.00	1	02/01/2019 21:21	WG1231554	
2-Hexanone	U			0.757	5.00	1	02/01/2019 21:21	WG1231554	
n-Hexane	U			0.305	5.00	1	02/01/2019 21:21	WG1231554	
Iodomethane	U			0.377	10.0	1	02/01/2019 21:21	WG1231554	
Isopropylbenzene	U			0.126	0.500	1	02/01/2019 21:21	WG1231554	
p-Isopropyltoluene	U			0.138	0.500	1	02/01/2019 21:21	WG1231554	
2-Butanone (MEK)	U	UJ	J0	1.28	5.00	1	02/01/2019 21:21	WG1231554	
Methylene Chloride	U			1.07	2.50	1	02/01/2019 21:21	WG1231554	
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	02/01/2019 21:21	WG1231554	
Methyl tert-butyl ether	U			0.102	0.500	1	02/01/2019 21:21	WG1231554	
Naphthalene	U	UJ	J0	0.174	2.50	1	02/01/2019 21:21	WG1231554	
n-Propylbenzene	U			0.162	0.500	1	02/01/2019 21:21	WG1231554	
Styrene	U			0.117	0.500	1	02/01/2019 21:21	WG1231554	
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	02/01/2019 21:21	WG1231554	
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.130	0.500	1	02/01/2019 21:21	WG1231554	
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	02/01/2019 21:21	WG1231554	
Tetrachloroethene	U			0.199	0.500	1	02/01/2019 21:21	WG1231554	
Toluene	U			0.412	0.500	1	02/01/2019 21:21	WG1231554	
1,2,3-Trichlorobenzene	U	UJ	J0	0.164	0.500	1	02/01/2019 21:21	WG1231554	
1,2,4-Trichlorobenzene	U			0.355	0.500	1	02/01/2019 21:21	WG1231554	
1,1,1-Trichloroethane	U			0.0940	0.500	1	02/01/2019 21:21	WG1231554	
1,1,2-Trichloroethane	U			0.186	0.500	1	02/01/2019 21:21	WG1231554	
Trichloroethene	U			0.153	0.500	1	02/01/2019 21:21	WG1231554	
Trichlorofluoromethane	U			0.130	2.50	1	02/01/2019 21:21	WG1231554	
1,2,3-Trichloropropane	U			0.247	2.50	1	02/01/2019 21:21	WG1231554	
1,2,4-Trimethylbenzene	U			0.123	0.500	1	02/01/2019 21:21	WG1231554	
1,2,3-Trimethylbenzene	U	UJ	J0 J4	0.0739	0.500	1	02/01/2019 21:21	WG1231554	JC 3/11/19
1,3,5-Trimethylbenzene	U			0.124	0.500	1	02/01/2019 21:21	WG1231554	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/01/2019 21:21	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/01/2019 21:21	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 21:21	WG1231554
(S) Toluene-d8	*104*			*80.0-120*		*02/01/2019 21:21*	WG1231554
(S) Toluene-d8	*98.2*			*80.0-120*		*02/03/2019 15:11*	WG1231885
(S) Dibromofluoromethane	*100*			*75.0-120*		*02/01/2019 21:21*	WG1231554
(S) 4-Bromofluorobenzene	*85.0*			*77.0-126*		*02/01/2019 21:21*	WG1231554
(S) 4-Bromofluorobenzene	*96.0*			*77.0-126*		*02/03/2019 15:11*	WG1231885
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*02/03/2019 15:11*	WG1231885

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U			1.05	25.0	1	02/01/2019 21:41	WG1231554	
Acrylonitrile	U			0.873	5.00	1	02/01/2019 21:41	WG1231554	
Benzene	U			0.0896	0.500	1	02/01/2019 21:41	WG1231554	
Bromobenzene	U			0.133	0.500	1	02/01/2019 21:41	WG1231554	
Bromodichloromethane	U			0.0800	0.500	1	02/01/2019 21:41	WG1231554	
Bromochloromethane	U			0.145	0.500	1	02/01/2019 21:41	WG1231554	
Bromoform	U			0.186	0.500	1	02/01/2019 21:41	WG1231554	
Bromomethane	U			0.157	2.50	1	02/01/2019 21:41	WG1231554	
n-Butylbenzene	U			0.143	0.500	1	02/01/2019 21:41	WG1231554	
sec-Butylbenzene	U			0.134	0.500	1	02/01/2019 21:41	WG1231554	
tert-Butylbenzene	U			0.183	0.500	1	02/01/2019 21:41	WG1231554	
Carbon disulfide	U			0.101	0.500	1	02/01/2019 21:41	WG1231554	
Carbon tetrachloride	U			0.159	0.500	1	02/01/2019 21:41	WG1231554	
Chlorobenzene	U			0.140	0.500	1	02/01/2019 21:41	WG1231554	
Chlorodibromomethane	U			0.128	0.500	1	02/01/2019 21:41	WG1231554	
Chloroethane	U			0.141	2.50	1	02/01/2019 21:41	WG1231554	
Chloroform	U			0.0860	0.500	1	02/01/2019 21:41	WG1231554	
Chloromethane	U			0.153	1.25	1	02/01/2019 21:41	WG1231554	
2-Chlorotoluene	U			0.111	0.500	1	02/01/2019 21:41	WG1231554	
4-Chlorotoluene	U			0.0972	0.500	1	02/01/2019 21:41	WG1231554	
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	02/01/2019 21:41	WG1231554	
1,2-Dibromoethane	U			0.193	0.500	1	02/01/2019 21:41	WG1231554	
Dibromomethane	U			0.117	0.500	1	02/01/2019 21:41	WG1231554	
1,2-Dichlorobenzene	U			0.101	0.500	1	02/01/2019 21:41	WG1231554	
1,3-Dichlorobenzene	U			0.130	0.500	1	02/01/2019 21:41	WG1231554	
1,4-Dichlorobenzene	U			0.121	0.500	1	02/01/2019 21:41	WG1231554	
Dichlorodifluoromethane	U			0.127	2.50	1	02/01/2019 21:41	WG1231554	
1,1-Dichloroethane	U			0.114	0.500	1	02/01/2019 21:41	WG1231554	
1,2-Dichloroethane	U			0.108	0.500	1	02/01/2019 21:41	WG1231554	
1,1-Dichloroethene	U			0.188	0.500	1	02/01/2019 21:41	WG1231554	
cis-1,2-Dichloroethene	0.316	J	J	0.0933	0.500	1	02/03/2019 15:30	WG1231885	
trans-1,2-Dichloroethene	U			0.152	0.500	1	02/01/2019 21:41	WG1231554	
1,2-Dichloropropane	U			0.190	0.500	1	02/01/2019 21:41	WG1231554	
1,1-Dichloropropene	U			0.128	0.500	1	02/01/2019 21:41	WG1231554	
1,3-Dichloropropane	U			0.147	1.00	1	02/01/2019 21:41	WG1231554	
cis-1,3-Dichloropropene	U			0.0976	0.500	1	02/01/2019 21:41	WG1231554	
trans-1,3-Dichloropropene	U			0.222	0.500	1	02/01/2019 21:41	WG1231554	
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	02/01/2019 21:41	WG1231554	
2,2-Dichloropropane	U			0.0929	0.500	1	02/01/2019 21:41	WG1231554	
Di-isopropyl ether	U			0.0924	0.500	1	02/01/2019 21:41	WG1231554	
Ethylbenzene	U			0.158	0.500	1	02/01/2019 21:41	WG1231554	
Hexachloro-1,3-butadiene	U			0.157	1.00	1	02/01/2019 21:41	WG1231554	
2-Hexanone	U			0.757	5.00	1	02/01/2019 21:41	WG1231554	
n-Hexane	U			0.305	5.00	1	02/01/2019 21:41	WG1231554	
Iodomethane	U			0.377	10.0	1	02/01/2019 21:41	WG1231554	
Isopropylbenzene	U			0.126	0.500	1	02/01/2019 21:41	WG1231554	
p-Isopropyltoluene	U			0.138	0.500	1	02/01/2019 21:41	WG1231554	
2-Butanone (MEK)	U	UJ	J0	1.28	5.00	1	02/01/2019 21:41	WG1231554	
Methylene Chloride	U			1.07	2.50	1	02/01/2019 21:41	WG1231554	
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	02/01/2019 21:41	WG1231554	
Methyl tert-butyl ether	U			0.102	0.500	1	02/01/2019 21:41	WG1231554	
Naphthalene	U	UJ	J0	0.174	2.50	1	02/01/2019 21:41	WG1231554	
n-Propylbenzene	U			0.162	0.500	1	02/01/2019 21:41	WG1231554	
Styrene	U			0.117	0.500	1	02/01/2019 21:41	WG1231554	JC 3/11/19
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	02/01/2019 21:41	WG1231554	
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.130	0.500	1	02/01/2019 21:41	WG1231554	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	02/01/2019 21:41	WG1231554
Tetrachloroethene	U			0.199	0.500	1	02/01/2019 21:41	WG1231554
Toluene	U			0.412	0.500	1	02/01/2019 21:41	WG1231554
1,2,3-Trichlorobenzene	U	UJ	J0	0.164	0.500	1	02/01/2019 21:41	WG1231554
1,2,4-Trichlorobenzene	U			0.355	0.500	1	02/01/2019 21:41	WG1231554
1,1,1-Trichloroethane	U			0.0940	0.500	1	02/01/2019 21:41	WG1231554
1,1,2-Trichloroethane	U			0.186	0.500	1	02/01/2019 21:41	WG1231554
Trichloroethene	U			0.153	0.500	1	02/01/2019 21:41	WG1231554
Trichlorofluoromethane	U			0.130	2.50	1	02/01/2019 21:41	WG1231554
1,2,3-Trichloropropane	U			0.247	2.50	1	02/01/2019 21:41	WG1231554
1,2,4-Trimethylbenzene	U			0.123	0.500	1	02/01/2019 21:41	WG1231554
1,2,3-Trimethylbenzene	U	UJ	J0 J4	0.0739	0.500	1	02/01/2019 21:41	WG1231554
1,3,5-Trimethylbenzene	U			0.124	0.500	1	02/01/2019 21:41	WG1231554
Vinyl acetate	U			0.645	5.00	1	02/01/2019 21:41	WG1231554
Vinyl chloride	12.4			0.118	0.500	1	02/01/2019 21:41	WG1231554
Xylenes, Total	U			0.316	1.50	1	02/01/2019 21:41	WG1231554
(S) Toluene-d8	*105*				*80.0-120*		*02/01/2019 21:41*	WG1231554
(S) Toluene-d8	*99.2*				*80.0-120*		*02/03/2019 15:30*	WG1231885
(S) Dibromofluoromethane	*101*				*75.0-120*		*02/01/2019 21:41*	WG1231554
(S) 4-Bromofluorobenzene	*83.0*				*77.0-126*		*02/01/2019 21:41*	WG1231554
(S) 4-Bromofluorobenzene	*98.7*				*77.0-126*		*02/03/2019 15:30*	WG1231885
(S) 1,2-Dichloroethane-d4	*90.8*				*70.0-130*		*02/03/2019 15:30*	WG1231885

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	02/01/2019 21:11	WG1231257
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*02/01/2019 21:11*	WG1231257

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/01/2019 22:01	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 22:01	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 22:01	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 22:01	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 22:01	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 22:01	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 22:01	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 22:01	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 22:01	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 22:01	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 22:01	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 22:01	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 22:01	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 22:01	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 22:01	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 22:01	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 22:01	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 22:01	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 22:01	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 22:01	WG1231554
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.325	2.50	1	02/01/2019 22:01	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 22:01	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 22:01	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 22:01	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 22:01	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 22:01	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 22:01	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 22:01	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 22:01	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 22:01	WG1231554
cis-1,2-Dichloroethene	0.479 J	J	0.0933	0.500	1	02/01/2019 22:01	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 22:01	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 22:01	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 22:01	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 22:01	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 22:01	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 22:01	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 22:01	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 22:01	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 22:01	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 22:01	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 22:01	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 22:01	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 22:01	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 22:01	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 22:01	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 22:01	WG1231554
2-Butanone (MEK)	U UJ	J0	1.28	5.00	1	02/01/2019 22:01	WG1231554

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	02/01/2019 22:01	WG1231554
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	02/01/2019 22:01	WG1231554
Methyl tert-butyl ether	U			0.102	0.500	1	02/01/2019 22:01	WG1231554
Naphthalene	U	UJ	J0	0.174	2.50	1	02/01/2019 22:01	WG1231554
n-Propylbenzene	U			0.162	0.500	1	02/01/2019 22:01	WG1231554
Styrene	U			0.117	0.500	1	02/01/2019 22:01	WG1231554
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	02/01/2019 22:01	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.130	0.500	1	02/01/2019 22:01	WG1231554
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	02/01/2019 22:01	WG1231554
Tetrachloroethene	U			0.199	0.500	1	02/01/2019 22:01	WG1231554
Toluene	U			0.412	0.500	1	02/01/2019 22:01	WG1231554
1,2,3-Trichlorobenzene	U	UJ	J0	0.164	0.500	1	02/01/2019 22:01	WG1231554
1,2,4-Trichlorobenzene	U			0.355	0.500	1	02/01/2019 22:01	WG1231554
1,1,1-Trichloroethane	U			0.0940	0.500	1	02/01/2019 22:01	WG1231554
1,1,2-Trichloroethane	U			0.186	0.500	1	02/01/2019 22:01	WG1231554
Trichloroethene	U			0.153	0.500	1	02/01/2019 22:01	WG1231554
Trichlorofluoromethane	U			0.130	2.50	1	02/01/2019 22:01	WG1231554
1,2,3-Trichloropropane	U			0.247	2.50	1	02/01/2019 22:01	WG1231554
1,2,4-Trimethylbenzene	U			0.123	0.500	1	02/01/2019 22:01	WG1231554
1,2,3-Trimethylbenzene	U	UJ	J0 J4	0.0739	0.500	1	02/01/2019 22:01	WG1231554
1,3,5-Trimethylbenzene	U			0.124	0.500	1	02/01/2019 22:01	WG1231554
Vinyl acetate	U			0.645	5.00	1	02/01/2019 22:01	WG1231554
Vinyl chloride	U			0.118	0.500	1	02/01/2019 22:01	WG1231554
Xylenes, Total	U			0.316	1.50	1	02/01/2019 22:01	WG1231554
(S) Toluene-d8	*107*				*80.0-120*		*02/01/2019 22:01*	WG1231554
(S) Dibromofluoromethane	*100*				*75.0-120*		*02/01/2019 22:01*	WG1231554
(S) 4-Bromofluorobenzene	*83.0*				*77.0-126*		*02/01/2019 22:01*	WG1231554

JC 3/11/19

TRIP BLANK-013019

Collected date/time: 01/30/19 00:00

SAMPLE RESULTS - 08

L1065595

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/01/2019 17:39	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 17:39	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 17:39	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 17:39	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 17:39	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 17:39	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 17:39	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 17:39	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 17:39	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 17:39	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 17:39	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 17:39	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 17:39	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 17:39	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 17:39	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 17:39	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 17:39	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 17:39	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 17:39	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.325	2.50	1	02/01/2019 17:39	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 17:39	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 17:39	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 17:39	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 17:39	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 17:39	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 17:39	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 17:39	WG1231554
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/01/2019 17:39	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 17:39	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 17:39	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 17:39	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 17:39	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 17:39	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 17:39	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 17:39	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 17:39	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 17:39	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 17:39	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 17:39	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 17:39	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 17:39	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 17:39	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 17:39	WG1231554
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	02/01/2019 17:39	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 17:39	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 17:39	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 17:39	WG1231554
Naphthalene	U	UJ J0	0.174	2.50	1	02/01/2019 17:39	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 17:39	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 17:39	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 17:39	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	02/01/2019 17:39	WG1231554

JC 3/11/19

TRIP BLANK-013019

Collected date/time: 01/30/19 00:00

SAMPLE RESULTS - 08

L1065595

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 17:39	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 17:39	WG1231554
Toluene	0.700		0.412	0.500	1	02/01/2019 17:39	WG1231554
1,2,3-Trichlorobenzene	U	UJ J0	0.164	0.500	1	02/01/2019 17:39	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 17:39	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 17:39	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 17:39	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 17:39	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 17:39	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 17:39	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 17:39	WG1231554
1,2,3-Trimethylbenzene	U	UJ J0 J4	0.0739	0.500	1	02/01/2019 17:39	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 17:39	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 17:39	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/01/2019 17:39	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 17:39	WG1231554
(S) Toluene-d8	*105*			*80.0-120*		*02/01/2019 17:39*	WG1231554
(S) Dibromofluoromethane	*99.0*			*75.0-120*		*02/01/2019 17:39*	WG1231554
(S) 4-Bromofluorobenzene	*87.0*			*77.0-126*		*02/01/2019 17:39*	WG1231554

JC 3/11/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Gasoline Range Organics-NWTPH	22400 J		316	1000	10	02/08/2019 14:46	WG1234465	JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	*86.2*			*78.0-120*		*02/08/2019 14:46*	WG1234465	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Acetone	9.13 J	J	1.05	25.0	1	02/03/2019 16:05	WG1231972	
Acrylonitrile	U		0.873	5.00	1	02/03/2019 16:05	WG1231972	
Benzene	0.377 J	J	0.0896	0.500	1	02/03/2019 16:05	WG1231972	
Bromobenzene	U		0.133	0.500	1	02/03/2019 16:05	WG1231972	
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 16:05	WG1231972	
Bromochloromethane	U		0.145	0.500	1	02/03/2019 16:05	WG1231972	
Bromoform	U		0.186	0.500	1	02/03/2019 16:05	WG1231972	
Bromomethane	U		0.157	2.50	1	02/03/2019 16:05	WG1231972	
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 16:05	WG1231972	
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 16:05	WG1231972	
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 16:05	WG1231972	
Carbon disulfide	4.57		0.101	0.500	1	02/03/2019 16:05	WG1231972	
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 16:05	WG1231972	
Chlorobenzene	U		0.140	0.500	1	02/03/2019 16:05	WG1231972	
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 16:05	WG1231972	
Chloroethane	U		0.141	2.50	1	02/03/2019 16:05	WG1231972	
Chloroform	U		0.0860	0.500	1	02/03/2019 16:05	WG1231972	
Chloromethane	U		0.153	1.25	1	02/03/2019 16:05	WG1231972	
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 16:05	WG1231972	
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 16:05	WG1231972	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 16:05	WG1231972	
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 16:05	WG1231972	
Dibromomethane	U		0.117	0.500	1	02/03/2019 16:05	WG1231972	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 16:05	WG1231972	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 16:05	WG1231972	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 16:05	WG1231972	
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 16:05	WG1231972	
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 16:05	WG1231972	
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 16:05	WG1231972	
1,1-Dichloroethene	130		0.188	0.500	1	02/03/2019 16:05	WG1231972	
cis-1,2-Dichloroethene	27700		93.3	500	1000	02/10/2019 17:56	WG1235063	
trans-1,2-Dichloroethene	107		0.152	0.500	1	02/03/2019 16:05	WG1231972	
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 16:05	WG1231972	
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 16:05	WG1231972	
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 16:05	WG1231972	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 16:05	WG1231972	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 16:05	WG1231972	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 16:05	WG1231972	
2,2-Dichloropropane	0.128 J	J	0.0929	0.500	1	02/03/2019 16:05	WG1231972	
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 16:05	WG1231972	
Ethylbenzene	0.279 J	J	0.158	0.500	1	02/03/2019 16:05	WG1231972	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 16:05	WG1231972	
2-Hexanone	U		0.757	5.00	1	02/03/2019 16:05	WG1231972	
n-Hexane	U		0.305	5.00	1	02/03/2019 16:05	WG1231972	
Iodomethane	U		0.377	10.0	1	02/03/2019 16:05	WG1231972	
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 16:05	WG1231972	
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 16:05	WG1231972	
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 16:05	WG1231972	JC 3/11/19

MW-130-013119

Collected date/time: 01/31/19 10:00

SAMPLE RESULTS - 01

L1066228

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 16:05	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 16:05	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 16:05	WG1231972
Naphthalene	0.204	J J	0.174	2.50	1	02/03/2019 16:05	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 16:05	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 16:05	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 16:05	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 16:05	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 16:05	WG1231972
Tetrachloroethene	23700		199	500	1000	02/10/2019 17:56	WG1235063
Toluene	1.51	J+	0.412	0.500	1	02/03/2019 16:05	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 16:05	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 16:05	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 16:05	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 16:05	WG1231972
Trichloroethene	4640		153	500	1000	02/10/2019 17:56	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 16:05	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 16:05	WG1231972
1,2,4-Trimethylbenzene	1.09		0.123	0.500	1	02/03/2019 16:05	WG1231972
1,2,3-Trimethylbenzene	0.622		0.0739	0.500	1	02/03/2019 16:05	WG1231972
1,3,5-Trimethylbenzene	0.394	J J	0.124	0.500	1	02/03/2019 16:05	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 16:05	WG1231972
Vinyl chloride	1740		118	500	1000	02/10/2019 17:56	WG1235063
Xylenes, Total	1.22	J J	0.316	1.50	1	02/03/2019 16:05	WG1231972
(S) Toluene-d8	*105*			*80.0-120*		*02/03/2019 16:05*	WG1231972
(S) Toluene-d8	*97.6*			*80.0-120*		*02/10/2019 17:56*	WG1235063
(S) Dibromofluoromethane	*100*			*75.0-120*		*02/03/2019 16:05*	WG1231972
(S) 4-Bromofluorobenzene	*87.0*			*77.0-126*		*02/03/2019 16:05*	WG1231972
(S) 4-Bromofluorobenzene	*89.2*			*77.0-126*		*02/10/2019 17:56*	WG1235063
(S) 1,2-Dichloroethane-d4	*93.4*			*70.0-130*		*02/10/2019 17:56*	WG1235063

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Gasoline Range Organics-NWTPH	44300 J+		316	1000	10	02/08/2019 08:21	WG1234228	JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	*85.2*			*78.0-120*		*02/08/2019 08:21*	WG1234228	

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Acetone	30.9		1.05	25.0	1	02/03/2019 16:25	WG1231972	
Acrylonitrile	U		0.873	5.00	1	02/03/2019 16:25	WG1231972	
Benzene	0.416 J	J	0.0896	0.500	1	02/03/2019 16:25	WG1231972	
Bromobenzene	U		0.133	0.500	1	02/03/2019 16:25	WG1231972	
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 16:25	WG1231972	
Bromochloromethane	U		0.145	0.500	1	02/03/2019 16:25	WG1231972	
Bromoform	U		0.186	0.500	1	02/03/2019 16:25	WG1231972	
Bromomethane	U		0.157	2.50	1	02/03/2019 16:25	WG1231972	
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 16:25	WG1231972	
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 16:25	WG1231972	
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 16:25	WG1231972	
Carbon disulfide	16.4		0.101	0.500	1	02/03/2019 16:25	WG1231972	
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 16:25	WG1231972	
Chlorobenzene	U		0.140	0.500	1	02/03/2019 16:25	WG1231972	
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 16:25	WG1231972	
Chloroethane	U		0.141	2.50	1	02/03/2019 16:25	WG1231972	
Chloroform	0.137 J	J	0.0860	0.500	1	02/03/2019 16:25	WG1231972	
Chloromethane	U		0.153	1.25	1	02/03/2019 16:25	WG1231972	
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 16:25	WG1231972	
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 16:25	WG1231972	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 16:25	WG1231972	
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 16:25	WG1231972	
Dibromomethane	U		0.117	0.500	1	02/03/2019 16:25	WG1231972	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 16:25	WG1231972	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 16:25	WG1231972	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 16:25	WG1231972	
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 16:25	WG1231972	
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 16:25	WG1231972	
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 16:25	WG1231972	
1,1-Dichloroethene	86.3		0.188	0.500	1	02/03/2019 16:25	WG1231972	
cis-1,2-Dichloroethene	58400		187	1000	2000	02/10/2019 18:16	WG1235063	
trans-1,2-Dichloroethene	101		0.152	0.500	1	02/03/2019 16:25	WG1231972	
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 16:25	WG1231972	
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 16:25	WG1231972	
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 16:25	WG1231972	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 16:25	WG1231972	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 16:25	WG1231972	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 16:25	WG1231972	
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 16:25	WG1231972	
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 16:25	WG1231972	
Ethylbenzene	0.342 J	J	0.158	0.500	1	02/03/2019 16:25	WG1231972	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 16:25	WG1231972	
2-Hexanone	U		0.757	5.00	1	02/03/2019 16:25	WG1231972	
n-Hexane	U		0.305	5.00	1	02/03/2019 16:25	WG1231972	
Iodomethane	U		0.377	10.0	1	02/03/2019 16:25	WG1231972	
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 16:25	WG1231972	
p-Isopropyltoluene	0.196 J	J	0.138	0.500	1	02/03/2019 16:25	WG1231972	
2-Butanone (MEK)	9.01		1.28	5.00	1	02/03/2019 16:25	WG1231972	JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 16:25	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 16:25	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 16:25	WG1231972
Naphthalene	0.266 J	J	0.174	2.50	1	02/03/2019 16:25	WG1231972
n-Propylbenzene	0.281 J	J	0.162	0.500	1	02/03/2019 16:25	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 16:25	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 16:25	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 16:25	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 16:25	WG1231972
Tetrachloroethene	38300		398	1000	2000	02/10/2019 18:16	WG1235063
Toluene	2.61 J+		0.412	0.500	1	02/03/2019 16:25	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 16:25	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 16:25	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 16:25	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 16:25	WG1231972
Trichloroethene	3920		306	1000	2000	02/10/2019 18:16	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 16:25	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 16:25	WG1231972
1,2,4-Trimethylbenzene	2.37		0.123	0.500	1	02/03/2019 16:25	WG1231972
1,2,3-Trimethylbenzene	0.932		0.0739	0.500	1	02/03/2019 16:25	WG1231972
1,3,5-Trimethylbenzene	0.615		0.124	0.500	1	02/03/2019 16:25	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 16:25	WG1231972
Vinyl chloride	9600		236	1000	2000	02/10/2019 18:16	WG1235063
Xylenes, Total	2.10		0.316	1.50	1	02/03/2019 16:25	WG1231972
(S) Toluene-d8	*118*			*80.0-120*		*02/03/2019 16:25*	WG1231972
(S) Toluene-d8	*93.5*			*80.0-120*		*02/10/2019 18:16*	WG1235063
(S) Dibromofluoromethane	*99.0*			*75.0-120*		*02/03/2019 16:25*	WG1231972
(S) 4-Bromofluorobenzene	*86.0*			*77.0-126*		*02/03/2019 16:25*	WG1231972
(S) 4-Bromofluorobenzene	*89.2*			*77.0-126*		*02/10/2019 18:16*	WG1235063
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*		*02/10/2019 18:16*	WG1235063

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Gasoline Range Organics-NWTPH	340 J+	B	31.6	100	1	02/08/2019 08:45	WG1234228	JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	*84.7*			*78.0-120*		*02/08/2019 08:45*	WG1234228	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	14.0 J	J	1.05	25.0	1	02/03/2019 16:46	WG1231972	
Acrylonitrile	U		0.873	5.00	1	02/03/2019 16:46	WG1231972	
Benzene	U		0.0896	0.500	1	02/03/2019 16:46	WG1231972	
Bromobenzene	U		0.133	0.500	1	02/03/2019 16:46	WG1231972	
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 16:46	WG1231972	
Bromochloromethane	U		0.145	0.500	1	02/03/2019 16:46	WG1231972	
Bromoform	U		0.186	0.500	1	02/03/2019 16:46	WG1231972	
Bromomethane	U		0.157	2.50	1	02/03/2019 16:46	WG1231972	
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 16:46	WG1231972	
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 16:46	WG1231972	
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 16:46	WG1231972	
Carbon disulfide	0.344 J	J	0.101	0.500	1	02/03/2019 16:46	WG1231972	
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 16:46	WG1231972	
Chlorobenzene	U		0.140	0.500	1	02/03/2019 16:46	WG1231972	
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 16:46	WG1231972	
Chloroethane	6.11		0.141	2.50	1	02/03/2019 16:46	WG1231972	
Chloroform	U		0.0860	0.500	1	02/03/2019 16:46	WG1231972	
Chloromethane	U		0.153	1.25	1	02/03/2019 16:46	WG1231972	
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 16:46	WG1231972	
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 16:46	WG1231972	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 16:46	WG1231972	
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 16:46	WG1231972	
Dibromomethane	U		0.117	0.500	1	02/03/2019 16:46	WG1231972	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 16:46	WG1231972	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 16:46	WG1231972	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 16:46	WG1231972	
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 16:46	WG1231972	
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 16:46	WG1231972	
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 16:46	WG1231972	
1,1-Dichloroethene	3.15		0.188	0.500	1	02/03/2019 16:46	WG1231972	
cis-1,2-Dichloroethene	466		0.466	2.50	5	02/10/2019 18:36	WG1235063	
trans-1,2-Dichloroethene	3.52		0.152	0.500	1	02/03/2019 16:46	WG1231972	
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 16:46	WG1231972	
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 16:46	WG1231972	
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 16:46	WG1231972	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 16:46	WG1231972	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 16:46	WG1231972	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 16:46	WG1231972	
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 16:46	WG1231972	
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 16:46	WG1231972	
Ethylbenzene	U		0.158	0.500	1	02/03/2019 16:46	WG1231972	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 16:46	WG1231972	
2-Hexanone	U		0.757	5.00	1	02/03/2019 16:46	WG1231972	
n-Hexane	0.560 J	J	0.305	5.00	1	02/03/2019 16:46	WG1231972	
Iodomethane	U		0.377	10.0	1	02/03/2019 16:46	WG1231972	
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 16:46	WG1231972	
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 16:46	WG1231972	JC 3/11/19
2-Butanone (MEK)	1.71 J	J	1.28	5.00	1	02/03/2019 16:46	WG1231972	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 16:46	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 16:46	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 16:46	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 16:46	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 16:46	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 16:46	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 16:46	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 16:46	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 16:46	WG1231972
Tetrachloroethene	106		0.995	2.50	5	02/10/2019 18:36	WG1235063
Toluene	U		0.412	0.500	1	02/03/2019 16:46	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 16:46	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 16:46	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 16:46	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 16:46	WG1231972
Trichloroethene	40.4		0.765	2.50	5	02/10/2019 18:36	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 16:46	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 16:46	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 16:46	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 16:46	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 16:46	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 16:46	WG1231972
Vinyl chloride	158		0.590	2.50	5	02/10/2019 18:36	WG1235063
Xylenes, Total	U		0.316	1.50	1	02/03/2019 16:46	WG1231972
(S) Toluene-d8	*105*			*80.0-120*		*02/03/2019 16:46*	WG1231972
(S) Toluene-d8	*97.2*			*80.0-120*		*02/10/2019 18:36*	WG1235063
(S) Dibromofluoromethane	*99.0*			*75.0-120*		*02/03/2019 16:46*	WG1231972
(S) 4-Bromofluorobenzene	*84.0*			*77.0-126*		*02/03/2019 16:46*	WG1231972
(S) 4-Bromofluorobenzene	*85.8*			*77.0-126*		*02/10/2019 18:36*	WG1235063
(S) 1,2-Dichloroethane-d4	*91.8*			*70.0-130*		*02/10/2019 18:36*	WG1235063

JC 3/11/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Gasoline Range Organics-NWTPH	104 J+	B	31.6	100	1	02/03/2019 19:08	WG1231937	JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	*88.9*			*78.0-120*		*02/03/2019 19:08*	WG1231937	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	7.79 J	J	1.05	25.0	1	02/03/2019 17:06	WG1231972	
Acrylonitrile	U		0.873	5.00	1	02/03/2019 17:06	WG1231972	
Benzene	U		0.0896	0.500	1	02/03/2019 17:06	WG1231972	
Bromobenzene	U		0.133	0.500	1	02/03/2019 17:06	WG1231972	
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 17:06	WG1231972	
Bromochloromethane	U		0.145	0.500	1	02/03/2019 17:06	WG1231972	
Bromoform	U		0.186	0.500	1	02/03/2019 17:06	WG1231972	
Bromomethane	U		0.157	2.50	1	02/03/2019 17:06	WG1231972	
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 17:06	WG1231972	
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 17:06	WG1231972	
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 17:06	WG1231972	
Carbon disulfide	U		0.101	0.500	1	02/03/2019 17:06	WG1231972	
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 17:06	WG1231972	
Chlorobenzene	U		0.140	0.500	1	02/03/2019 17:06	WG1231972	
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 17:06	WG1231972	
Chloroethane	U		0.141	2.50	1	02/03/2019 17:06	WG1231972	
Chloroform	U		0.0860	0.500	1	02/03/2019 17:06	WG1231972	
Chloromethane	U		0.153	1.25	1	02/03/2019 17:06	WG1231972	
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 17:06	WG1231972	
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 17:06	WG1231972	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 17:06	WG1231972	
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 17:06	WG1231972	
Dibromomethane	U		0.117	0.500	1	02/03/2019 17:06	WG1231972	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 17:06	WG1231972	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 17:06	WG1231972	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 17:06	WG1231972	
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 17:06	WG1231972	
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 17:06	WG1231972	
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 17:06	WG1231972	
1,1-Dichloroethene	0.366 J	J	0.188	0.500	1	02/03/2019 17:06	WG1231972	
cis-1,2-Dichloroethene	108		0.0933	0.500	1	02/03/2019 17:06	WG1231972	
trans-1,2-Dichloroethene	0.506		0.152	0.500	1	02/03/2019 17:06	WG1231972	
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 17:06	WG1231972	
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 17:06	WG1231972	
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 17:06	WG1231972	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 17:06	WG1231972	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 17:06	WG1231972	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 17:06	WG1231972	
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 17:06	WG1231972	
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 17:06	WG1231972	
Ethylbenzene	U		0.158	0.500	1	02/03/2019 17:06	WG1231972	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 17:06	WG1231972	
2-Hexanone	U		0.757	5.00	1	02/03/2019 17:06	WG1231972	
n-Hexane	U		0.305	5.00	1	02/03/2019 17:06	WG1231972	
Iodomethane	U		0.377	10.0	1	02/03/2019 17:06	WG1231972	
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 17:06	WG1231972	JC 3/11/19
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 17:06	WG1231972	
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 17:06	WG1231972	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 17:06	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 17:06	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 17:06	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 17:06	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 17:06	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 17:06	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 17:06	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 17:06	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 17:06	WG1231972
Tetrachloroethene	22.9		0.199	0.500	1	02/03/2019 17:06	WG1231972
Toluene	U		0.412	0.500	1	02/03/2019 17:06	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 17:06	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 17:06	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 17:06	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 17:06	WG1231972
Trichloroethene	1.95		0.153	0.500	1	02/03/2019 17:06	WG1231972
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 17:06	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 17:06	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 17:06	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 17:06	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 17:06	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 17:06	WG1231972
Vinyl chloride	269		0.590	2.50	5	02/10/2019 18:56	WG1235063
Xylenes, Total	U		0.316	1.50	1	02/03/2019 17:06	WG1231972
(S) Toluene-d8	*105*			*80.0-120*		*02/03/2019 17:06*	WG1231972
(S) Toluene-d8	*92.9*			*80.0-120*		*02/10/2019 18:56*	WG1235063
(S) Dibromofluoromethane	*100*			*75.0-120*		*02/03/2019 17:06*	WG1231972
(S) 4-Bromofluorobenzene	*82.0*			*77.0-126*		*02/03/2019 17:06*	WG1231972
(S) 4-Bromofluorobenzene	*82.7*			*77.0-126*		*02/10/2019 18:56*	WG1235063
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*02/10/2019 18:56*	WG1235063

JC 3/11/19

MW-135-013119
Collected date/time: 01/31/19 14:50

SAMPLE RESULTS - 05

L1066228

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Gasoline Range Organics-NWTPH	42700	J+		316	1000	10	02/08/2019 09:08	WG1234228	JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	*85.7*				*78.0-120*		*02/08/2019 09:08*	WG1234228	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	27.6	J		1.05	25.0	1	02/03/2019 17:26	WG1231972
Acrylonitrile	U			0.873	5.00	1	02/03/2019 17:26	WG1231972
Benzene	0.695	J		0.0896	0.500	1	02/03/2019 17:26	WG1231972
Bromobenzene	U			0.133	0.500	1	02/03/2019 17:26	WG1231972
Bromodichloromethane	U			0.0800	0.500	1	02/03/2019 17:26	WG1231972
Bromochloromethane	U			0.145	0.500	1	02/03/2019 17:26	WG1231972
Bromoform	U			0.186	0.500	1	02/03/2019 17:26	WG1231972
Bromomethane	U			0.157	2.50	1	02/03/2019 17:26	WG1231972
n-Butylbenzene	U			0.143	0.500	1	02/03/2019 17:26	WG1231972
sec-Butylbenzene	U			0.134	0.500	1	02/03/2019 17:26	WG1231972
tert-Butylbenzene	U			0.183	0.500	1	02/03/2019 17:26	WG1231972
Carbon disulfide	0.462	J	J	0.101	0.500	1	02/03/2019 17:26	WG1231972
Carbon tetrachloride	U			0.159	0.500	1	02/03/2019 17:26	WG1231972
Chlorobenzene	U			0.140	0.500	1	02/03/2019 17:26	WG1231972
Chlorodibromomethane	U			0.128	0.500	1	02/03/2019 17:26	WG1231972
Chloroethane	1.40	J	J	0.141	2.50	1	02/03/2019 17:26	WG1231972
Chloroform	U			0.0860	0.500	1	02/03/2019 17:26	WG1231972
Chloromethane	U			0.153	1.25	1	02/03/2019 17:26	WG1231972
2-Chlorotoluene	U			0.111	0.500	1	02/03/2019 17:26	WG1231972
4-Chlorotoluene	U			0.0972	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	02/03/2019 17:26	WG1231972
1,2-Dibromoethane	U			0.193	0.500	1	02/03/2019 17:26	WG1231972
Dibromomethane	U			0.117	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dichlorobenzene	0.147	J	J	0.101	0.500	1	02/03/2019 17:26	WG1231972
1,3-Dichlorobenzene	U			0.130	0.500	1	02/03/2019 17:26	WG1231972
1,4-Dichlorobenzene	U			0.121	0.500	1	02/03/2019 17:26	WG1231972
Dichlorodifluoromethane	U			0.127	2.50	1	02/03/2019 17:26	WG1231972
1,1-Dichloroethane	0.396	J	J	0.114	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dichloroethane	U			0.108	0.500	1	02/03/2019 17:26	WG1231972
1,1-Dichloroethene	225	J	E	0.188	0.500	1	02/03/2019 17:26	WG1231972
cis-1,2-Dichloroethene	37400			187	1000	2000	02/10/2019 19:16	WG1235063
trans-1,2-Dichloroethene	68.6	J		0.152	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dichloropropane	U			0.190	0.500	1	02/03/2019 17:26	WG1231972
1,1-Dichloropropene	U			0.128	0.500	1	02/03/2019 17:26	WG1231972
1,3-Dichloropropane	U			0.147	1.00	1	02/03/2019 17:26	WG1231972
cis-1,3-Dichloropropene	U			0.0976	0.500	1	02/03/2019 17:26	WG1231972
trans-1,3-Dichloropropene	U			0.222	0.500	1	02/03/2019 17:26	WG1231972
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	02/03/2019 17:26	WG1231972
2,2-Dichloropropane	U			0.0929	0.500	1	02/03/2019 17:26	WG1231972
Di-isopropyl ether	U			0.0924	0.500	1	02/03/2019 17:26	WG1231972
Ethylbenzene	0.571	J		0.158	0.500	1	02/03/2019 17:26	WG1231972
Hexachloro-1,3-butadiene	U			0.157	1.00	1	02/03/2019 17:26	WG1231972
2-Hexanone	U			0.757	5.00	1	02/03/2019 17:26	WG1231972
n-Hexane	U			0.305	5.00	1	02/03/2019 17:26	WG1231972
Iodomethane	U			0.377	10.0	1	02/03/2019 17:26	WG1231972
Isopropylbenzene	0.136	J	J	0.126	0.500	1	02/03/2019 17:26	WG1231972
p-Isopropyltoluene	0.195	J	J	0.138	0.500	1	02/03/2019 17:26	WG1231972
2-Butanone (MEK)	4.87	J	J	1.28	5.00	1	02/03/2019 17:26	WG1231972

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 17:26	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 17:26	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 17:26	WG1231972
Naphthalene	0.227	J J	0.174	2.50	1	02/03/2019 17:26	WG1231972
n-Propylbenzene	0.376	J J	0.162	0.500	1	02/03/2019 17:26	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 17:26	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 17:26	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 17:26	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 17:26	WG1231972
Tetrachloroethene	56500		398	1000	2000	02/10/2019 19:16	WG1235063
Toluene	5.12	J+	0.412	0.500	1	02/03/2019 17:26	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 17:26	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 17:26	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 17:26	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 17:26	WG1231972
Trichloroethene	9530		306	1000	2000	02/10/2019 19:16	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 17:26	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 17:26	WG1231972
1,2,4-Trimethylbenzene	2.50	J	0.123	0.500	1	02/03/2019 17:26	WG1231972
1,2,3-Trimethylbenzene	1.08	J	0.0739	0.500	1	02/03/2019 17:26	WG1231972
1,3,5-Trimethylbenzene	0.786	J	0.124	0.500	1	02/03/2019 17:26	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 17:26	WG1231972
Vinyl chloride	1090		236	1000	2000	02/10/2019 19:16	WG1235063
Xylenes, Total	3.43	J	0.316	1.50	1	02/03/2019 17:26	WG1231972
(S) Toluene-d8	*142*	J1		*80.0-120*		*02/03/2019 17:26*	WG1231972
(S) Toluene-d8	*93.4*			*80.0-120*		*02/10/2019 19:16*	WG1235063
(S) Dibromofluoromethane	*99.0*			*75.0-120*		*02/03/2019 17:26*	WG1231972
(S) 4-Bromofluorobenzene	*86.0*			*77.0-126*		*02/03/2019 17:26*	WG1231972
(S) 4-Bromofluorobenzene	*85.3*			*77.0-126*		*02/10/2019 19:16*	WG1235063
(S) 1,2-Dichloroethane-d4	*94.8*			*70.0-130*		*02/10/2019 19:16*	WG1235063

Sample Narrative:

L1066228-05 WG1231972: Surrogate failure due to matrix interference

JC 3/11/19

MW-121-013119

Collected date/time: 01/31/19 15:20

SAMPLE RESULTS - 06

L1066228

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	38.0 U	B J	31.6	100	1	02/08/2019 15:09	WG1234465
(S) a,a,a-Trifluorotoluene(FID)	*86.0*			*78.0-120*		*02/08/2019 15:09*	WG1234465

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	7.53 J	J	1.05	25.0	1	02/03/2019 17:46	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 17:46	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 17:46	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 17:46	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 17:46	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 17:46	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 17:46	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 17:46	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 17:46	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 17:46	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 17:46	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 17:46	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 17:46	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 17:46	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 17:46	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 17:46	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 17:46	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 17:46	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 17:46	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 17:46	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 17:46	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 17:46	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 17:46	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 17:46	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 17:46	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 17:46	WG1231972
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 17:46	WG1231972
cis-1,2-Dichloroethene	5.53		0.0933	0.500	1	02/10/2019 15:56	WG1235063
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 17:46	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 17:46	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 17:46	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 17:46	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 17:46	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 17:46	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 17:46	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 17:46	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 17:46	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 17:46	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 17:46	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 17:46	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 17:46	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 17:46	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 17:46	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 17:46	WG1231972

JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	02/03/2019 17:46	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 17:46	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 17:46	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 17:46	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 17:46	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 17:46	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 17:46	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 17:46	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 17:46	WG1231972
Tetrachloroethene	U		0.199	0.500	1	02/10/2019 15:56	WG1235063
Toluene	U		0.412	0.500	1	02/03/2019 17:46	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 17:46	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 17:46	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 17:46	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 17:46	WG1231972
Trichloroethene	U		0.153	0.500	1	02/10/2019 15:56	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 17:46	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 17:46	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 17:46	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 17:46	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 17:46	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 17:46	WG1231972
Vinyl chloride	19.8		0.118	0.500	1	02/10/2019 15:56	WG1235063
Xylenes, Total	U		0.316	1.50	1	02/03/2019 17:46	WG1231972
(S) Toluene-d8	*106*			*80.0-120*		*02/03/2019 17:46*	WG1231972
(S) Toluene-d8	*96.5*			*80.0-120*		*02/10/2019 15:56*	WG1235063
(S) Dibromofluoromethane	*98.0*			*75.0-120*		*02/03/2019 17:46*	WG1231972
(S) 4-Bromofluorobenzene	*83.0*			*77.0-126*		*02/03/2019 17:46*	WG1231972
(S) 4-Bromofluorobenzene	*89.3*			*77.0-126*		*02/10/2019 15:56*	WG1235063
(S) 1,2-Dichloroethane-d4	*91.7*			*70.0-130*		*02/10/2019 15:56*	WG1235063

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	58.4 U	B J	31.6	100	1	02/03/2019 20:19	WG1231937
(S) a,a,a-Trifluorotoluene(FID)	*88.8*			*78.0-120*		*02/03/2019 20:19*	WG1231937

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/03/2019 18:06	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 18:06	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 18:06	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 18:06	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 18:06	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 18:06	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 18:06	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 18:06	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 18:06	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 18:06	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 18:06	WG1231972
Carbon disulfide	0.114 J	J	0.101	0.500	1	02/03/2019 18:06	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 18:06	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 18:06	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 18:06	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 18:06	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 18:06	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 18:06	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 18:06	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 18:06	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 18:06	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 18:06	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 18:06	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 18:06	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 18:06	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 18:06	WG1231972
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 18:06	WG1231972
cis-1,2-Dichloroethene	0.616		0.0933	0.500	1	02/10/2019 16:16	WG1235063
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 18:06	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 18:06	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 18:06	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 18:06	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 18:06	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 18:06	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 18:06	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 18:06	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 18:06	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 18:06	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 18:06	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 18:06	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 18:06	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 18:06	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 18:06	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 18:06	WG1231972

JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 18:06	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 18:06	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 18:06	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 18:06	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 18:06	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 18:06	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 18:06	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 18:06	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 18:06	WG1231972
Tetrachloroethene	1.48		0.199	0.500	1	02/10/2019 16:16	WG1235063
Toluene	U		0.412	0.500	1	02/03/2019 18:06	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 18:06	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 18:06	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 18:06	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 18:06	WG1231972
Trichloroethene	U		0.153	0.500	1	02/10/2019 16:16	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 18:06	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 18:06	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 18:06	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 18:06	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 18:06	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 18:06	WG1231972
Vinyl chloride	0.365 J	J	0.118	0.500	1	02/10/2019 16:16	WG1235063
Xylenes, Total	U		0.316	1.50	1	02/03/2019 18:06	WG1231972
(S) Toluene-d8	*105*			*80.0-120*		*02/03/2019 18:06*	WG1231972
(S) Toluene-d8	*93.3*			*80.0-120*		*02/10/2019 16:16*	WG1235063
(S) Dibromofluoromethane	*101*			*75.0-120*		*02/03/2019 18:06*	WG1231972
(S) 4-Bromofluorobenzene	*82.0*			*77.0-126*		*02/03/2019 18:06*	WG1231972
(S) 4-Bromofluorobenzene	*85.3*			*77.0-126*		*02/10/2019 16:16*	WG1235063
(S) 1,2-Dichloroethane-d4	*94.7*			*70.0-130*		*02/10/2019 16:16*	WG1235063

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	44.5 U	B J	31.6	100	1	02/03/2019 20:42	WG1231937
(S) a,a,a-Trifluorotoluene(FID)	*89.1*			*78.0-120*		*02/03/2019 20:42*	WG1231937

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/03/2019 18:26	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 18:26	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 18:26	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 18:26	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 18:26	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 18:26	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 18:26	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 18:26	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 18:26	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 18:26	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 18:26	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 18:26	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 18:26	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 18:26	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 18:26	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 18:26	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 18:26	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 18:26	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 18:26	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 18:26	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 18:26	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 18:26	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 18:26	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 18:26	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 18:26	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 18:26	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 18:26	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 18:26	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 18:26	WG1231972
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 18:26	WG1231972
cis-1,2-Dichloroethene	0.851		0.0933	0.500	1	02/10/2019 16:36	WG1235063
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 18:26	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 18:26	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 18:26	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 18:26	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 18:26	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 18:26	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 18:26	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 18:26	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 18:26	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 18:26	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 18:26	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 18:26	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 18:26	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 18:26	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 18:26	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 18:26	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 18:26	WG1231972

JC 3/11/19

SAMPLE RESULTS - 08

L1066228

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 18:26	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 18:26	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 18:26	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 18:26	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 18:26	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 18:26	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 18:26	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 18:26	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 18:26	WG1231972
Tetrachloroethene	1.26		0.199	0.500	1	02/10/2019 16:36	WG1235063
Toluene	U		0.412	0.500	1	02/03/2019 18:26	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 18:26	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 18:26	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 18:26	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 18:26	WG1231972
Trichloroethene	0.293 U	~~J~~	0.153	0.500	1	02/10/2019 16:36	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 18:26	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 18:26	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 18:26	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 18:26	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 18:26	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 18:26	WG1231972
Vinyl chloride	0.186 J	J	0.118	0.500	1	02/10/2019 16:36	WG1235063
Xylenes, Total	U		0.316	1.50	1	02/03/2019 18:26	WG1231972
(S) Toluene-d8	*105*			*80.0-120*		*02/03/2019 18:26*	WG1231972
(S) Toluene-d8	*96.1*			*80.0-120*		*02/10/2019 16:36*	WG1235063
(S) Dibromofluoromethane	*102*			*75.0-120*		*02/03/2019 18:26*	WG1231972
(S) 4-Bromofluorobenzene	*80.0*			*77.0-126*		*02/03/2019 18:26*	WG1231972
(S) 4-Bromofluorobenzene	*87.2*			*77.0-126*		*02/10/2019 16:36*	WG1235063
(S) 1,2-Dichloroethane-d4	*92.4*			*70.0-130*		*02/10/2019 16:36*	WG1235063

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	46.4 U	B J	31.6	100	1	02/03/2019 21:06	WG1231937
(S) a,a,a-Trifluorotoluene(FID)	*88.7*			*78.0-120*		*02/03/2019 21:06*	WG1231937

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/03/2019 18:47	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 18:47	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 18:47	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 18:47	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 18:47	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 18:47	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 18:47	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 18:47	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 18:47	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 18:47	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 18:47	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 18:47	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 18:47	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 18:47	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 18:47	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 18:47	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 18:47	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 18:47	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 18:47	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 18:47	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 18:47	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 18:47	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 18:47	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 18:47	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 18:47	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 18:47	WG1231972
1,1-Dichloroethene	1.94		0.188	0.500	1	02/03/2019 18:47	WG1231972
cis-1,2-Dichloroethene	12.4		0.0933	0.500	1	02/03/2019 18:47	WG1231972
trans-1,2-Dichloroethene	0.588		0.152	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 18:47	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 18:47	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 18:47	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 18:47	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 18:47	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 18:47	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 18:47	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 18:47	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 18:47	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 18:47	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 18:47	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 18:47	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 18:47	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 18:47	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 18:47	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 18:47	WG1231972

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	02/03/2019 18:47	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 18:47	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 18:47	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 18:47	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 18:47	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 18:47	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 18:47	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 18:47	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 18:47	WG1231972
Tetrachloroethene	22.4		0.199	0.500	1	02/03/2019 18:47	WG1231972
Toluene	U		0.412	0.500	1	02/03/2019 18:47	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 18:47	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 18:47	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 18:47	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 18:47	WG1231972
Trichloroethene	9.29		0.153	0.500	1	02/03/2019 18:47	WG1231972
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 18:47	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 18:47	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 18:47	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 18:47	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 18:47	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 18:47	WG1231972
Vinyl chloride	4.36		0.118	0.500	1	02/03/2019 18:47	WG1231972
Xylenes, Total	U		0.316	1.50	1	02/03/2019 18:47	WG1231972
(S) Toluene-d8	*106*			*80.0-120*		*02/03/2019 18:47*	WG1231972
(S) Dibromofluoromethane	*99.0*			*75.0-120*		*02/03/2019 18:47*	WG1231972
(S) 4-Bromofluorobenzene	*82.0*			*77.0-126*		*02/03/2019 18:47*	WG1231972

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	79800		2710	20000	1	02/07/2019 12:08	WG1233465

Sample Narrative:

L1066228-10 WG1233465: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	6740		51.9	1000	1	02/02/2019 13:01	WG1231671
Nitrate	U		22.7	100	1	02/02/2019 13:01	WG1231671
Sulfate	5500		77.4	5000	1	02/02/2019 13:01	WG1231671

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6720		102	1000	1	02/04/2019 16:11	WG1231328

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	37000		15.0	100	1	02/04/2019 19:51	WG1232037
Manganese	656		0.250	5.00	1	02/04/2019 19:51	WG1232037

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Gasoline Range Organics-NWTPH	191 J+	B	31.6	100	1	02/03/2019 21:29	WG1231937	JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	*88.8*			*78.0-120*		*02/03/2019 21:29*	WG1231937	

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	605		0.287	0.678	1	02/05/2019 14:12	WG1232088
Ethane	2.41		0.296	1.29	1	02/05/2019 14:12	WG1232088
Ethene	29.4		0.422	1.27	1	02/05/2019 14:12	WG1232088

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	72.7		1.05	25.0	1	02/03/2019 19:07	WG1231972	
Acrylonitrile	U		0.873	5.00	1	02/03/2019 19:07	WG1231972	
Benzene	U		0.0896	0.500	1	02/03/2019 19:07	WG1231972	
Bromobenzene	U		0.133	0.500	1	02/03/2019 19:07	WG1231972	
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 19:07	WG1231972	
Bromochloromethane	U		0.145	0.500	1	02/03/2019 19:07	WG1231972	
Bromoform	U		0.186	0.500	1	02/03/2019 19:07	WG1231972	
Bromomethane	U		0.157	2.50	1	02/03/2019 19:07	WG1231972	
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 19:07	WG1231972	
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 19:07	WG1231972	JC 3/11/19
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 19:07	WG1231972	
Carbon disulfide	0.179 J	J	0.101	0.500	1	02/03/2019 19:07	WG1231972	
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 19:07	WG1231972	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/03/2019 19:07	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 19:07	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 19:07	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 19:07	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 19:07	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 19:07	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 19:07	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 19:07	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 19:07	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 19:07	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 19:07	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 19:07	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 19:07	WG1231972
1,1-Dichloroethene	0.415	J J	0.188	0.500	1	02/03/2019 19:07	WG1231972
cis-1,2-Dichloroethene	30.6		0.0933	0.500	1	02/03/2019 19:07	WG1231972
trans-1,2-Dichloroethene	0.326	J J	0.152	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 19:07	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 19:07	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 19:07	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 19:07	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 19:07	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 19:07	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 19:07	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 19:07	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 19:07	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 19:07	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 19:07	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 19:07	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 19:07	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 19:07	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 19:07	WG1231972
2-Butanone (MEK)	68.5		1.28	5.00	1	02/03/2019 19:07	WG1231972
Methylene Chloride	U		1.07	2.50	1	02/03/2019 19:07	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 19:07	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 19:07	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 19:07	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 19:07	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 19:07	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 19:07	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 19:07	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 19:07	WG1231972
Tetrachloroethene	12.1		0.199	0.500	1	02/03/2019 19:07	WG1231972
Toluene	U		0.412	0.500	1	02/03/2019 19:07	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 19:07	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 19:07	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 19:07	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 19:07	WG1231972
Trichloroethene	3.22		0.153	0.500	1	02/03/2019 19:07	WG1231972
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 19:07	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 19:07	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 19:07	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 19:07	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 19:07	WG1231972

JC 3/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/03/2019 19:07	WG1231972
Vinyl chloride	32.4		0.118	0.500	1	02/03/2019 19:07	WG1231972
Xylenes, Total	U		0.316	1.50	1	02/03/2019 19:07	WG1231972
(S) Toluene-d8	*102*			*80.0-120*		*02/03/2019 19:07*	WG1231972
(S) Dibromofluoromethane	*101*			*75.0-120*		*02/03/2019 19:07*	WG1231972
(S) 4-Bromofluorobenzene	*83.0*			*77.0-126*		*02/03/2019 19:07*	WG1231972

JC 3/11/19

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Collected date/time: 02/01/19 00:00

SAMPLE RESULTS - 11

L1066228

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/03/2019 15:20	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 15:20	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 15:20	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 15:20	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 15:20	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 15:20	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 15:20	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 15:20	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 15:20	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 15:20	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 15:20	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 15:20	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 15:20	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 15:20	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 15:20	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 15:20	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 15:20	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 15:20	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 15:20	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 15:20	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 15:20	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 15:20	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 15:20	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 15:20	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 15:20	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 15:20	WG1231972
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 15:20	WG1231972
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/03/2019 15:20	WG1231972
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 15:20	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 15:20	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 15:20	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 15:20	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 15:20	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 15:20	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 15:20	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 15:20	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 15:20	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 15:20	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 15:20	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 15:20	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 15:20	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 15:20	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 15:20	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 15:20	WG1231972
Methylene Chloride	U		1.07	2.50	1	02/03/2019 15:20	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 15:20	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 15:20	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 15:20	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 15:20	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 15:20	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 15:20	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 15:20	WG1231972

JC 3/11/19

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Collected date/time: 02/01/19 00:00

SAMPLE RESULTS - 11
L1066228

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 15:20	WG1231972
Tetrachloroethene	U		0.199	0.500	1	02/10/2019 15:36	WG1235063
Toluene	0.566		0.412	0.500	1	02/03/2019 15:20	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 15:20	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 15:20	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 15:20	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 15:20	WG1231972
Trichloroethene	0.155 J	J	0.153	0.500	1	02/03/2019 15:20	WG1231972
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 15:20	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 15:20	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 15:20	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 15:20	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 15:20	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 15:20	WG1231972
Vinyl chloride	U		0.118	0.500	1	02/03/2019 15:20	WG1231972
Xylenes, Total	U		0.316	1.50	1	02/03/2019 15:20	WG1231972
(S) Toluene-d8	*103*			*80.0-120*		*02/03/2019 15:20*	WG1231972
(S) Toluene-d8	*93.7*			*80.0-120*		*02/10/2019 15:36*	WG1235063
(S) Dibromofluoromethane	*100*			*75.0-120*		*02/03/2019 15:20*	WG1231972
(S) 4-Bromofluorobenzene	*82.0*			*77.0-126*		*02/03/2019 15:20*	WG1231972
(S) 4-Bromofluorobenzene	*87.6*			*77.0-126*		*02/10/2019 15:36*	WG1235063
(S) 1,2-Dichloroethane-d4	*93.5*			*70.0-130*		*02/10/2019 15:36*	WG1235063

JC 3/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	551000		2710	20000	1	02/12/2019 14:44	WG1235357

Sample Narrative:

L1068057-01 WG1235357: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	43900		51.9	1000	1	02/08/2019 22:32	WG1234306
Nitrate	38.9 J	J	22.7	100	1	02/08/2019 22:32	WG1234306
Sulfate	33300		77.4	5000	1	02/08/2019 22:32	WG1234306

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	18800		102	1000	1	02/08/2019 18:38	WG1234334

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	6110		15.0	100	1	02/14/2019 11:10	WG1235757
Manganese	659		0.250	5.00	1	02/14/2019 11:10	WG1235757

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Gasoline Range Organics-NWTPH	3100 J+		31.6	100	1	02/08/2019 15:57	WG1234480	JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	*85.8*			*78.0-120*		*02/08/2019 15:57*	WG1234480	

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	4050		0.287	0.678	1	02/12/2019 11:18	WG1235211
Ethane	39.9		0.296	1.29	1	02/12/2019 11:18	WG1235211
Ethene	6.30		0.422	1.27	1	02/12/2019 11:18	WG1235211

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	2.79 J	J J3	1.05	25.0	1	02/08/2019 17:22	WG1234600	
Acrylonitrile	U		0.873	5.00	1	02/08/2019 17:22	WG1234600	
Benzene	0.811		0.0896	0.500	1	02/08/2019 17:22	WG1234600	
Bromobenzene	U		0.133	0.500	1	02/08/2019 17:22	WG1234600	
Bromodichloromethane	U		0.0800	0.500	1	02/08/2019 17:22	WG1234600	
Bromochloromethane	U		0.145	0.500	1	02/08/2019 17:22	WG1234600	
Bromoform	U		0.186	0.500	1	02/08/2019 17:22	WG1234600	
Bromomethane	U		0.157	2.50	1	02/08/2019 17:22	WG1234600	
n-Butylbenzene	U		0.143	0.500	1	02/08/2019 17:22	WG1234600	
sec-Butylbenzene	U		0.134	0.500	1	02/08/2019 17:22	WG1234600	
tert-Butylbenzene	U		0.183	0.500	1	02/08/2019 17:22	WG1234600	
Carbon disulfide	U		0.101	0.500	1	02/08/2019 17:22	WG1234600	
Carbon tetrachloride	U		0.159	0.500	1	02/08/2019 17:22	WG1234600	JC 3/13/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/08/2019 17:22	WG1234600
Chlorodibromomethane	U		0.128	0.500	1	02/08/2019 17:22	WG1234600
Chloroethane	U		0.141	2.50	1	02/08/2019 17:22	WG1234600
Chloroform	U		0.0860	0.500	1	02/08/2019 17:22	WG1234600
Chloromethane	U		0.153	1.25	1	02/08/2019 17:22	WG1234600
2-Chlorotoluene	U		0.111	0.500	1	02/08/2019 17:22	WG1234600
4-Chlorotoluene	U		0.0972	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/08/2019 17:22	WG1234600
1,2-Dibromoethane	U		0.193	0.500	1	02/08/2019 17:22	WG1234600
Dibromomethane	U		0.117	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dichlorobenzene	U		0.101	0.500	1	02/08/2019 17:22	WG1234600
1,3-Dichlorobenzene	U		0.130	0.500	1	02/08/2019 17:22	WG1234600
1,4-Dichlorobenzene	U		0.121	0.500	1	02/08/2019 17:22	WG1234600
Dichlorodifluoromethane	U		0.127	2.50	1	02/08/2019 17:22	WG1234600
1,1-Dichloroethane	0.141 J	J	0.114	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dichloroethane	U		0.108	0.500	1	02/08/2019 17:22	WG1234600
1,1-Dichloroethene	9.92		0.188	0.500	1	02/08/2019 17:22	WG1234600
cis-1,2-Dichloroethene	6990		23.3	125	250	02/12/2019 14:16	WG1235840
trans-1,2-Dichloroethene	25.7		0.152	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dichloropropane	U		0.190	0.500	1	02/08/2019 17:22	WG1234600
1,1-Dichloropropene	U		0.128	0.500	1	02/08/2019 17:22	WG1234600
1,3-Dichloropropane	U		0.147	1.00	1	02/08/2019 17:22	WG1234600
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/08/2019 17:22	WG1234600
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/08/2019 17:22	WG1234600
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/08/2019 17:22	WG1234600
2,2-Dichloropropane	U		0.0929	0.500	1	02/08/2019 17:22	WG1234600
Di-isopropyl ether	U		0.0924	0.500	1	02/08/2019 17:22	WG1234600
Ethylbenzene	U		0.158	0.500	1	02/08/2019 17:22	WG1234600
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/08/2019 17:22	WG1234600
2-Hexanone	U		0.757	5.00	1	02/08/2019 17:22	WG1234600
n-Hexane	U		0.305	5.00	1	02/08/2019 17:22	WG1234600
Iodomethane	U	~~J3~~	0.377	10.0	1	02/08/2019 17:22	WG1234600
Isopropylbenzene	U		0.126	0.500	1	02/08/2019 17:22	WG1234600
p-Isopropyltoluene	U		0.138	0.500	1	02/08/2019 17:22	WG1234600
2-Butanone (MEK)	U		1.28	5.00	1	02/08/2019 17:22	WG1234600
Methylene Chloride	U		1.07	2.50	1	02/08/2019 17:22	WG1234600
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/08/2019 17:22	WG1234600
Methyl tert-butyl ether	U		0.102	0.500	1	02/08/2019 17:22	WG1234600
Naphthalene	U		0.174	2.50	1	02/08/2019 17:22	WG1234600
n-Propylbenzene	U		0.162	0.500	1	02/08/2019 17:22	WG1234600
Styrene	U		0.117	0.500	1	02/08/2019 17:22	WG1234600
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/08/2019 17:22	WG1234600
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/08/2019 17:22	WG1234600
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/08/2019 17:22	WG1234600
Tetrachloroethene	U		0.199	0.500	1	02/08/2019 17:22	WG1234600
Toluene	U		0.412	0.500	1	02/08/2019 17:22	WG1234600
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/08/2019 17:22	WG1234600
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/08/2019 17:22	WG1234600
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/08/2019 17:22	WG1234600
1,1,2-Trichloroethane	U		0.186	0.500	1	02/08/2019 17:22	WG1234600
Trichloroethene	1.77		0.153	0.500	1	02/08/2019 17:22	WG1234600
Trichlorofluoromethane	U		0.130	2.50	1	02/08/2019 17:22	WG1234600
1,2,3-Trichloropropane	U		0.247	2.50	1	02/08/2019 17:22	WG1234600
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/08/2019 17:22	WG1234600
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/08/2019 17:22	WG1234600
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/08/2019 17:22	WG1234600

JC 3/13/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/08/2019 17:22	WG1234600
Vinyl chloride	46.0		0.118	0.500	1	02/08/2019 17:22	WG1234600
Xylenes, Total	U		0.316	1.50	1	02/08/2019 17:22	WG1234600
(S) Toluene-d8	*108*			*80.0-120*		*02/08/2019 17:22*	WG1234600
(S) Toluene-d8	*99.8*			*80.0-120*		*02/12/2019 14:16*	WG1235840
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*02/08/2019 17:22*	WG1234600
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*02/12/2019 14:16*	WG1235840
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*02/08/2019 17:22*	WG1234600
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*02/12/2019 14:16*	WG1235840

JC 3/13/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	1.05	25.0	1	02/08/2019 16:02	WG1234600
Acrylonitrile	U		0.873	5.00	1	02/08/2019 16:02	WG1234600
Benzene	U		0.0896	0.500	1	02/08/2019 16:02	WG1234600
Bromobenzene	U		0.133	0.500	1	02/08/2019 16:02	WG1234600
Bromodichloromethane	U		0.0800	0.500	1	02/08/2019 16:02	WG1234600
Bromochloromethane	U		0.145	0.500	1	02/08/2019 16:02	WG1234600
Bromoform	U		0.186	0.500	1	02/08/2019 16:02	WG1234600
Bromomethane	U		0.157	2.50	1	02/08/2019 16:02	WG1234600
n-Butylbenzene	U		0.143	0.500	1	02/08/2019 16:02	WG1234600
sec-Butylbenzene	U		0.134	0.500	1	02/08/2019 16:02	WG1234600
tert-Butylbenzene	U		0.183	0.500	1	02/08/2019 16:02	WG1234600
Carbon disulfide	U		0.101	0.500	1	02/08/2019 16:02	WG1234600
Carbon tetrachloride	U		0.159	0.500	1	02/08/2019 16:02	WG1234600
Chlorobenzene	U		0.140	0.500	1	02/08/2019 16:02	WG1234600
Chlorodibromomethane	U		0.128	0.500	1	02/08/2019 16:02	WG1234600
Chloroethane	U		0.141	2.50	1	02/08/2019 16:02	WG1234600
Chloroform	U		0.0860	0.500	1	02/08/2019 16:02	WG1234600
Chloromethane	U		0.153	1.25	1	02/08/2019 16:02	WG1234600
2-Chlorotoluene	U		0.111	0.500	1	02/08/2019 16:02	WG1234600
4-Chlorotoluene	U		0.0972	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/08/2019 16:02	WG1234600
1,2-Dibromoethane	U		0.193	0.500	1	02/08/2019 16:02	WG1234600
Dibromomethane	U		0.117	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dichlorobenzene	U		0.101	0.500	1	02/08/2019 16:02	WG1234600
1,3-Dichlorobenzene	U		0.130	0.500	1	02/08/2019 16:02	WG1234600
1,4-Dichlorobenzene	U		0.121	0.500	1	02/08/2019 16:02	WG1234600
Dichlorodifluoromethane	U		0.127	2.50	1	02/08/2019 16:02	WG1234600
1,1-Dichloroethane	U		0.114	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dichloroethane	U		0.108	0.500	1	02/08/2019 16:02	WG1234600
1,1-Dichloroethene	U		0.188	0.500	1	02/08/2019 16:02	WG1234600
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/08/2019 16:02	WG1234600
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dichloropropane	U		0.190	0.500	1	02/08/2019 16:02	WG1234600
1,1-Dichloropropene	U		0.128	0.500	1	02/08/2019 16:02	WG1234600
1,3-Dichloropropane	U		0.147	1.00	1	02/08/2019 16:02	WG1234600
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/08/2019 16:02	WG1234600
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/08/2019 16:02	WG1234600
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/08/2019 16:02	WG1234600
2,2-Dichloropropane	U		0.0929	0.500	1	02/08/2019 16:02	WG1234600
Di-isopropyl ether	U		0.0924	0.500	1	02/08/2019 16:02	WG1234600
Ethylbenzene	U		0.158	0.500	1	02/08/2019 16:02	WG1234600
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/08/2019 16:02	WG1234600
2-Hexanone	U		0.757	5.00	1	02/08/2019 16:02	WG1234600
n-Hexane	U		0.305	5.00	1	02/08/2019 16:02	WG1234600
Iodomethane	U	J3	0.377	10.0	1	02/08/2019 16:02	WG1234600
Isopropylbenzene	U		0.126	0.500	1	02/08/2019 16:02	WG1234600
p-Isopropyltoluene	U		0.138	0.500	1	02/08/2019 16:02	WG1234600
2-Butanone (MEK)	U		1.28	5.00	1	02/08/2019 16:02	WG1234600
Methylene Chloride	U		1.07	2.50	1	02/08/2019 16:02	WG1234600
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/08/2019 16:02	WG1234600
Methyl tert-butyl ether	U		0.102	0.500	1	02/08/2019 16:02	WG1234600
Naphthalene	U		0.174	2.50	1	02/08/2019 16:02	WG1234600
n-Propylbenzene	U		0.162	0.500	1	02/08/2019 16:02	WG1234600
Styrene	U		0.117	0.500	1	02/08/2019 16:02	WG1234600
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/08/2019 16:02	WG1234600
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/08/2019 16:02	WG1234600

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/08/2019 16:02	WG1234600
Tetrachloroethene	U		0.199	0.500	1	02/08/2019 16:02	WG1234600
Toluene	U		0.412	0.500	1	02/08/2019 16:02	WG1234600
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/08/2019 16:02	WG1234600
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/08/2019 16:02	WG1234600
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/08/2019 16:02	WG1234600
1,1,2-Trichloroethane	U		0.186	0.500	1	02/08/2019 16:02	WG1234600
Trichloroethene	U		0.153	0.500	1	02/08/2019 16:02	WG1234600
Trichlorofluoromethane	U		0.130	2.50	1	02/08/2019 16:02	WG1234600
1,2,3-Trichloropropane	U		0.247	2.50	1	02/08/2019 16:02	WG1234600
1,2,4-Trimethylbenzene	0.341	J	0.123	0.500	1	02/08/2019 16:02	WG1234600
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/08/2019 16:02	WG1234600
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/08/2019 16:02	WG1234600
Vinyl acetate	U		0.645	5.00	1	02/08/2019 16:02	WG1234600
Vinyl chloride	U		0.118	0.500	1	02/08/2019 16:02	WG1234600
Xylenes, Total	U		0.316	1.50	1	02/08/2019 16:02	WG1234600
(S) Toluene-d8	*103*			*80.0-120*		*02/08/2019 16:02*	WG1234600
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*02/08/2019 16:02*	WG1234600
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*02/08/2019 16:02*	WG1234600

MEMORANDUM

TO: Project File **DATE:** April 8, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.601

TASK: EIM Data Validation Level EPA2A for February 2019 – Soil and Soil Vapor Samples

LAB: Pace Sample Delivery Groups L1970864, L1070990, and L1072936

Thirty-six (36) soil samples including one (1) field duplicate, and one (1) trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on February 6, 13, 14, 19, 20, and 21, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C (soil samples);
- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method TO-15 (soil vapor samples);
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology; and
- Total Solids by Standard Methods 2540 G-2011.

This sampling event extended from December 2018 through February 2019 and results by Pace and Fremont Analytical of Seattle, Washington. Associated soil sample data are reported in three Pace SDGs (L1970864, L1070990, and L1072936). The quality assurance review of the sample results are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

The laboratory supplied Summa Canisters ^{TM} (1-Liter) for the soil vapor samples. The samples were shipped, delivered by FedEx, and received in good condition by the laboratory. The samples were collected, handled, and delivered in an appropriate manner.

Soil samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for soils from the date of collection. All holding time criteria were met.

USEPA Method TO-15:
The analyses for VOCs was performed within the 30-day recommended holding time limit for the air samples collected in the Summa canisters. No data was qualified based upon holding times.

NWTPH-Gx:
All samples were analyzed for gasoline within the EPA recommended holding time of fourteen days for soils from the date of collection. All holding time criteria were met.

Total Solids by SM 2540 G 2011:
Samples were analyzed within the USEPA recommended holding time of seven days for total solids.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however Pace's notes indicate the following:

- SDG L1072936 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for methyl tert-butyl ether associated with analytical batch WG1241792 (analyzed on February 26, 2019). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1070864 - Analytical batch WG1238391: A low level of methylene chloride is detected in the method blank. No action is required since methylene chloride is not detected in the associated samples.

- SDG L1070864 - Analytical batch WG1239738: Low levels of n-hexane and methylene chloride are detected in the method blank. No action is required since n-hexane and methylene chloride are not detected in the associated sample (B-932-50).

- SDG L1072936 Analytical batch WG1239738: A low level of naphthalene is detected in the method blank. No action is required since Naphthalene is not detected in the associated Trip Blank.

- SDG L1072936 Analytical batch WG1241792: A low level of n-hexane is detected in the method blank. **Sample B6D6-17, B6D6-32, B6D6-35, B6D6-40, B6D6-45, B6D6-50, B-933-50, B10D10-15, B10D10-20, B10D10-30, B10D10-40, and B10D10-50 n-hexane results are qualified as non-detect (U).**

USEPA Method TO-15:
A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the reporting detection limits (RDLs).

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs.

Total Solids by SM 2540 G 2011:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (% solids) are either not detected or not detected at a significant level in the method blanks and sample results are not impacted.

Trip Blank Results

USEPA Method 8260C and NWTPH-Gx:
Three trip blanks were collected and analyzed for VOCs and in some cases for gasoline by NWTPH-Gx. The target analytes were not detected in the trip blank at or above the RDLs with the following exception:

  - SDG L1072936 Analytical batch WG1241720: A low level of acetone is detected in the trip blank. No action is taken since acetone is not detected in the associated samples.

Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate sample pairs are as follows:

- SDG L1070864: Samples B5D5-50 and B-932-50

Field duplicate pair was submitted and analyzed for VOCs. VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% or absolute difference <2X RDL (for results <5X the RDL) for the field duplicates.

Laboratory Duplicate Analyses

USEPA Method 8260C:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

USEPA Method TO-15:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

NWTPH-Gx Method:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

Total Solids by SM 2540 G 2011:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 10%.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, and the method blanks are within the laboratory surrogate control limits for all the analyses.

USEPA Method TO-15:
The surrogate recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, and the method blank are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260C:

LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils with the following discussions and exceptions:

- SDG L1072936 - Analytical batch - WG1241720: LCS recovery for dibromomethane is above control limit criteria and laboratory qualified (J4). **The dibromomethane result is qualified as not detected (U) and the laboratory qualifier (J4) is removed since this compound is not detected in the associated Trip Blank.**

- SDG L1072936 - Analytical batch - WG1241792: LCS recovery for bromomethane is above control limit criteria and laboratory qualified (J4). **The bromomethane result is qualified as not detected (U) and the laboratory qualifier (J4) is removed since this compound is not detected in the associated samples.**

- SDG L1072936 - Analytical batch - WG1241792: LCS recovery for styrene is below control limit criteria and laboratory qualified (J4). **All associated styrene results are qualified as estimated (UJ/J).**

USEPA Method TO-15:
Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed by USEPA Method TO-15 method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for **air.**

NWTPH-Gx Method:
The LCS/LCSD %Rs and RPD for the target compound (gasoline) are within the laboratory control criteria for soils.

Total Solids by SM 2540 G 2011:
The LCS %Rs for total solids are within the laboratory control criteria for soils.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSDs for accuracy and precision data.

USEPA Method TO-15:
A matrix spike/matrix spike duplicate (MS/MSD) is not required for VOCs. Refer to LCS/LCSD results for accuracy and precision data.

NWTPH-Gx Method:
MS/MSD analyses were performed on client sample A3C3-10 within the analytical batch. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for soils.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

Quantitation Limits

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. Though no action is taken other than to note that Pace sample narrative notes indicate that several VOC target compounds were too high to run at lower dilution for five samples:

SDG Number	Laboratory Identification	Client Sample Identification
L1072936	L1072936-05	B6D6-35
L1072936	L1072936-07	B6D6-45 *
L1072936	L1072936-12	B10D10-25
L1072936	L1072936-13	B10D10-30
L1072936	L1072936-16	B10D10-45*

* Pace was contacted to clarify the footnote “dilution due to sample volume” associated with two sample (B6D6-45 and B10D10-45) VOC results. Per Pace, samples (B6D6-45 and B10D10-45) for VOC analysis were prepped from the methanol preserved vials and there was less methanol available in the vials than normal. Pace indicated that this may have been caused by adding to much soil volume to the vials, or very absorbent soils. Pace also indicated that this is not a common issue and it typically results in dilutions less than 5x. Sample B6D6-45 needed a dilution of 2X and sample B10D10-45 needed a dilution greater than 5x (16.2X). No action was taken other than to note this.

Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.0		1	02/26/2019 14:18	WG1242106

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0287	1	02/25/2019 13:09	WG1241792
Acrylonitrile	U		0.00218	0.0144	1	02/25/2019 13:09	WG1241792
Benzene	U		0.000460	0.00115	1	02/25/2019 13:09	WG1241792
Bromobenzene	U		0.00121	0.0144	1	02/25/2019 13:09	WG1241792
Bromodichloromethane	U		0.000906	0.00287	1	02/25/2019 13:09	WG1241792
Bromochloromethane	U		0.00130	0.00575	1	02/25/2019 13:09	WG1241792
Bromoform	U		0.00687	0.0287	1	03/02/2019 00:31	WG1244113
Bromomethane	U	~~J4~~	0.00425	0.0144	1	02/25/2019 13:09	WG1241792
n-Butylbenzene	U		0.00441	0.0144	1	02/25/2019 13:09	WG1241792
sec-Butylbenzene	U		0.00291	0.0144	1	02/25/2019 13:09	WG1241792
tert-Butylbenzene	U		0.00178	0.00575	1	02/25/2019 13:09	WG1241792
Carbon disulfide	U		0.00467	0.0144	1	02/25/2019 13:09	WG1241792
Carbon tetrachloride	U		0.00124	0.00575	1	02/25/2019 13:09	WG1241792
Chlorobenzene	U		0.000659	0.00287	1	02/25/2019 13:09	WG1241792
Chlorodibromomethane	U		0.000517	0.00287	1	02/25/2019 13:09	WG1241792
Chloroethane	U		0.00124	0.00575	1	02/25/2019 13:09	WG1241792
Chloroform	U		0.000477	0.00287	1	02/25/2019 13:09	WG1241792
Chloromethane	U		0.00160	0.0144	1	02/25/2019 13:09	WG1241792
2-Chlorotoluene	U		0.00106	0.00287	1	02/25/2019 13:09	WG1241792
4-Chlorotoluene	U		0.00130	0.00575	1	02/25/2019 13:09	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00586	0.0287	1	02/25/2019 13:09	WG1241792
1,2-Dibromoethane	U		0.000604	0.00287	1	02/25/2019 13:09	WG1241792
Dibromomethane	U		0.00115	0.00575	1	02/25/2019 13:09	WG1241792
1,2-Dichlorobenzene	U		0.00167	0.00575	1	02/25/2019 13:09	WG1241792
1,3-Dichlorobenzene	U		0.00195	0.00575	1	02/25/2019 13:09	WG1241792
1,4-Dichlorobenzene	U		0.00226	0.00575	1	02/25/2019 13:09	WG1241792
Dichlorodifluoromethane	U		0.000940	0.00287	1	02/25/2019 13:09	WG1241792
1,1-Dichloroethane	U		0.000661	0.00287	1	02/25/2019 13:09	WG1241792
1,2-Dichloroethane	U		0.000546	0.00287	1	03/02/2019 00:31	WG1244113
1,1-Dichloroethene	U		0.000575	0.00287	1	02/25/2019 13:09	WG1241792
cis-1,2-Dichloroethene	0.00388		0.000793	0.00287	1	02/25/2019 13:09	WG1241792
trans-1,2-Dichloroethene	U		0.00164	0.00575	1	02/25/2019 13:09	WG1241792
1,2-Dichloropropane	U		0.00146	0.00575	1	02/25/2019 13:09	WG1241792
1,1-Dichloropropene	U		0.000805	0.00287	1	02/25/2019 13:09	WG1241792
1,3-Dichloropropane	U		0.00201	0.00575	1	02/25/2019 13:09	WG1241792
cis-1,3-Dichloropropene	U		0.000779	0.00287	1	02/25/2019 13:09	WG1241792
trans-1,3-Dichloropropene	U		0.00176	0.00575	1	02/25/2019 13:09	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00161	0.00575	1	02/25/2019 13:09	WG1241792
2,2-Dichloropropane	U		0.000912	0.00287	1	02/25/2019 13:09	WG1241792
Di-isopropyl ether	U		0.000402	0.00115	1	02/25/2019 13:09	WG1241792
Ethylbenzene	U		0.000609	0.00287	1	02/25/2019 13:09	WG1241792
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	02/25/2019 13:09	WG1241792
2-Hexanone	U		0.0115	0.0287	1	02/25/2019 13:09	WG1241792
n-Hexane	0.00214 U	B J	0.00122	0.00575	1	02/25/2019 13:09	WG1241792
Iodomethane	U		0.00696	0.0144	1	02/25/2019 13:09	WG1241792
Isopropylbenzene	U		0.000992	0.00287	1	02/25/2019 13:09	WG1241792
p-Isopropyltoluene	U		0.00268	0.00575	1	02/25/2019 13:09	WG1241792
2-Butanone (MEK)	U		0.0144	0.0287	1	02/25/2019 13:09	WG1241792
Methylene Chloride	U		0.00763	0.0287	1	02/25/2019 13:09	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	02/25/2019 13:09	WG1241792

JC 3/20/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000339	0.00115	1	02/25/2019 13:09	WG1241792
Naphthalene	U		0.00359	0.0144	1	02/25/2019 13:09	WG1241792
n-Propylbenzene	U		0.00136	0.00575	1	02/25/2019 13:09	WG1241792
Styrene	U UJ	J4	0.00314	0.0144	1	02/25/2019 13:09	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000575	0.00287	1	02/25/2019 13:09	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	02/25/2019 13:09	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000776	0.00287	1	02/25/2019 13:09	WG1241792
Tetrachloroethene	0.00641		0.000805	0.00287	1	02/25/2019 13:09	WG1241792
Toluene	0.00146 J	J	0.00144	0.00575	1	02/25/2019 13:09	WG1241792
1,2,3-Trichlorobenzene	U		0.000719	0.00287	1	02/25/2019 13:09	WG1241792
1,2,4-Trichlorobenzene	U		0.00554	0.0144	1	02/25/2019 13:09	WG1241792
1,1,1-Trichloroethane	U		0.000316	0.00287	1	02/25/2019 13:09	WG1241792
1,1,2-Trichloroethane	U		0.00102	0.00287	1	02/25/2019 13:09	WG1241792
Trichloroethene	0.00629		0.000460	0.00115	1	02/25/2019 13:09	WG1241792
Trichlorofluoromethane	U		0.000575	0.00287	1	02/25/2019 13:09	WG1241792
1,2,3-Trichloropropane	U		0.00586	0.0144	1	02/25/2019 13:09	WG1241792
1,2,4-Trimethylbenzene	U		0.00133	0.00575	1	02/25/2019 13:09	WG1241792
1,2,3-Trimethylbenzene	U		0.00132	0.00575	1	02/25/2019 13:09	WG1241792
1,3,5-Trimethylbenzene	U		0.00124	0.00575	1	02/25/2019 13:09	WG1241792
Vinyl acetate	U		0.00405	0.0144	1	02/25/2019 13:09	WG1241792
Vinyl chloride	U		0.000785	0.00287	1	02/25/2019 13:09	WG1241792
Xylenes, Total	U		0.00550	0.00747	1	02/25/2019 13:09	WG1241792
(S) Toluene-d8	*99.1*			*75.0-131*		*02/25/2019 13:09*	WG1241792
(S) Toluene-d8	*101*			*75.0-131*		*03/02/2019 00:31*	WG1244113
(S) 4-Bromofluorobenzene	*90.6*			*67.0-138*		*02/25/2019 13:09*	WG1241792
(S) 4-Bromofluorobenzene	*93.7*			*67.0-138*		*03/02/2019 00:31*	WG1244113
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*02/25/2019 13:09*	WG1241792
(S) 1,2-Dichloroethane-d4	*84.4*			*70.0-130*		*03/02/2019 00:31*	WG1244113

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B6D6-20
Collected date/time: 02/20/19 15:54

SAMPLE RESULTS - 02

L1072936

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.1		1	02/27/2019 16:21	WG1242107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0159	0.0290	1	02/25/2019 13:28	WG1241792
Acrylonitrile	U		0.00221	0.0145	1	02/25/2019 13:28	WG1241792
Benzene	U		0.000465	0.00116	1	02/25/2019 13:28	WG1241792
Bromobenzene	U		0.00122	0.0145	1	02/25/2019 13:28	WG1241792
Bromodichloromethane	U		0.000915	0.00290	1	02/25/2019 13:28	WG1241792
Bromochloromethane	U		0.00131	0.00581	1	02/25/2019 13:28	WG1241792
Bromoform	U		0.00694	0.0290	1	03/02/2019 00:54	WG1244113
Bromomethane	U	~~J4~~	0.00430	0.0145	1	02/25/2019 13:28	WG1241792
n-Butylbenzene	U		0.00446	0.0145	1	02/25/2019 13:28	WG1241792
sec-Butylbenzene	U		0.00294	0.0145	1	02/25/2019 13:28	WG1241792
tert-Butylbenzene	U		0.00180	0.00581	1	02/25/2019 13:28	WG1241792
Carbon disulfide	U		0.00471	0.0145	1	02/25/2019 13:28	WG1241792
Carbon tetrachloride	U		0.00125	0.00581	1	02/25/2019 13:28	WG1241792
Chlorobenzene	U		0.000665	0.00290	1	02/25/2019 13:28	WG1241792
Chlorodibromomethane	U		0.000523	0.00290	1	02/25/2019 13:28	WG1241792
Chloroethane	U		0.00125	0.00581	1	02/25/2019 13:28	WG1241792
Chloroform	U		0.000482	0.00290	1	02/25/2019 13:28	WG1241792
Chloromethane	U		0.00161	0.0145	1	02/25/2019 13:28	WG1241792
2-Chlorotoluene	U		0.00107	0.00290	1	02/25/2019 13:28	WG1241792
4-Chlorotoluene	U		0.00131	0.00581	1	02/25/2019 13:28	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00592	0.0290	1	02/25/2019 13:28	WG1241792
1,2-Dibromoethane	U		0.000610	0.00290	1	02/25/2019 13:28	WG1241792
Dibromomethane	U		0.00116	0.00581	1	02/25/2019 13:28	WG1241792
1,2-Dichlorobenzene	U		0.00168	0.00581	1	02/25/2019 13:28	WG1241792
1,3-Dichlorobenzene	U		0.00197	0.00581	1	02/25/2019 13:28	WG1241792
1,4-Dichlorobenzene	U		0.00229	0.00581	1	02/25/2019 13:28	WG1241792
Dichlorodifluoromethane	U		0.000950	0.00290	1	02/25/2019 13:28	WG1241792
1,1-Dichloroethane	U		0.000668	0.00290	1	02/25/2019 13:28	WG1241792
1,2-Dichloroethane	U		0.000552	0.00290	1	03/02/2019 00:54	WG1244113
1,1-Dichloroethene	U		0.000581	0.00290	1	02/25/2019 13:28	WG1241792
cis-1,2-Dichloroethene	0.0233		0.000801	0.00290	1	02/25/2019 13:28	WG1241792
trans-1,2-Dichloroethene	U		0.00166	0.00581	1	02/25/2019 13:28	WG1241792
1,2-Dichloropropane	U		0.00147	0.00581	1	02/25/2019 13:28	WG1241792
1,1-Dichloropropene	U		0.000813	0.00290	1	02/25/2019 13:28	WG1241792
1,3-Dichloropropane	U		0.00203	0.00581	1	02/25/2019 13:28	WG1241792
cis-1,3-Dichloropropene	U		0.000787	0.00290	1	02/25/2019 13:28	WG1241792
trans-1,3-Dichloropropene	U		0.00178	0.00581	1	02/25/2019 13:28	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00163	0.00581	1	02/25/2019 13:28	WG1241792
2,2-Dichloropropane	U		0.000921	0.00290	1	02/25/2019 13:28	WG1241792
Di-isopropyl ether	U		0.000406	0.00116	1	02/25/2019 13:28	WG1241792
Ethylbenzene	U		0.000615	0.00290	1	02/25/2019 13:28	WG1241792
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	02/25/2019 13:28	WG1241792
2-Hexanone	U		0.0116	0.0290	1	02/25/2019 13:28	WG1241792
n-Hexane	U		0.00123	0.00581	1	02/25/2019 13:28	WG1241792
Iodomethane	U		0.00703	0.0145	1	02/25/2019 13:28	WG1241792
Isopropylbenzene	U		0.00100	0.00290	1	02/25/2019 13:28	WG1241792
p-Isopropyltoluene	U		0.00271	0.00581	1	02/25/2019 13:28	WG1241792
2-Butanone (MEK)	U		0.0145	0.0290	1	02/25/2019 13:28	WG1241792
Methylene Chloride	U		0.00771	0.0290	1	02/25/2019 13:28	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	02/25/2019 13:28	WG1241792

JC 3/20/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000343	0.00116	1	02/25/2019 13:28	WG1241792
Naphthalene	U		0.00362	0.0145	1	02/25/2019 13:28	WG1241792
n-Propylbenzene	U		0.00137	0.00581	1	02/25/2019 13:28	WG1241792
Styrene	U UJ	J4	0.00317	0.0145	1	02/25/2019 13:28	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000581	0.00290	1	02/25/2019 13:28	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000453	0.00290	1	02/25/2019 13:28	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000784	0.00290	1	02/25/2019 13:28	WG1241792
Tetrachloroethene	0.00154 J	J	0.000813	0.00290	1	02/25/2019 13:28	WG1241792
Toluene	0.00201 J	J	0.00145	0.00581	1	02/25/2019 13:28	WG1241792
1,2,3-Trichlorobenzene	U		0.000726	0.00290	1	02/25/2019 13:28	WG1241792
1,2,4-Trichlorobenzene	U		0.00560	0.0145	1	02/25/2019 13:28	WG1241792
1,1,1-Trichloroethane	U		0.000319	0.00290	1	02/25/2019 13:28	WG1241792
1,1,2-Trichloroethane	U		0.00103	0.00290	1	02/25/2019 13:28	WG1241792
Trichloroethene	0.00333		0.000465	0.00116	1	02/25/2019 13:28	WG1241792
Trichlorofluoromethane	U		0.000581	0.00290	1	02/25/2019 13:28	WG1241792
1,2,3-Trichloropropane	U		0.00592	0.0145	1	02/25/2019 13:28	WG1241792
1,2,4-Trimethylbenzene	U		0.00135	0.00581	1	02/25/2019 13:28	WG1241792
1,2,3-Trimethylbenzene	U		0.00134	0.00581	1	02/25/2019 13:28	WG1241792
1,3,5-Trimethylbenzene	U		0.00125	0.00581	1	02/25/2019 13:28	WG1241792
Vinyl acetate	U		0.00409	0.0145	1	02/25/2019 13:28	WG1241792
Vinyl chloride	U		0.000793	0.00290	1	02/25/2019 13:28	WG1241792
Xylenes, Total	U		0.00555	0.00755	1	02/25/2019 13:28	WG1241792
(S) Toluene-d8	*100*			*75.0-131*		*02/25/2019 13:28*	WG1241792
(S) Toluene-d8	*100*			*75.0-131*		*03/02/2019 00:54*	WG1244113
(S) 4-Bromofluorobenzene	*92.7*			*67.0-138*		*02/25/2019 13:28*	WG1241792
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*03/02/2019 00:54*	WG1244113
(S) 1,2-Dichloroethane-d4	*98.0*			*70.0-130*		*02/25/2019 13:28*	WG1241792
(S) 1,2-Dichloroethane-d4	*85.3*			*70.0-130*		*03/02/2019 00:54*	WG1244113

JC 3/20/19

B6D6-25
Collected date/time: 02/20/19 16:05

SAMPLE RESULTS - 03

L1072936

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.0		1	02/27/2019 16:21	WG1242107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0163	0.0298	1	02/25/2019 13:47	WG1241792
Acrylonitrile	U		0.00226	0.0149	1	02/25/2019 13:47	WG1241792
Benzene	U		0.000476	0.00119	1	02/25/2019 13:47	WG1241792
Bromobenzene	U		0.00125	0.0149	1	02/25/2019 13:47	WG1241792
Bromodichloromethane	U		0.000938	0.00298	1	02/25/2019 13:47	WG1241792
Bromochloromethane	U		0.00134	0.00595	1	02/25/2019 13:47	WG1241792
Bromoform	U		0.00712	0.0298	1	03/02/2019 01:16	WG1244113
Bromomethane	U	~~J4~~	0.00440	0.0149	1	02/25/2019 13:47	WG1241792
n-Butylbenzene	U		0.00457	0.0149	1	02/25/2019 13:47	WG1241792
sec-Butylbenzene	U		0.00301	0.0149	1	02/25/2019 13:47	WG1241792
tert-Butylbenzene	U		0.00184	0.00595	1	02/25/2019 13:47	WG1241792
Carbon disulfide	U		0.00483	0.0149	1	02/25/2019 13:47	WG1241792
Carbon tetrachloride	U		0.00129	0.00595	1	02/25/2019 13:47	WG1241792
Chlorobenzene	U		0.000682	0.00298	1	02/25/2019 13:47	WG1241792
Chlorodibromomethane	U		0.000536	0.00298	1	02/25/2019 13:47	WG1241792
Chloroethane	U		0.00129	0.00595	1	02/25/2019 13:47	WG1241792
Chloroform	U		0.000494	0.00298	1	02/25/2019 13:47	WG1241792
Chloromethane	U		0.00165	0.0149	1	02/25/2019 13:47	WG1241792
2-Chlorotoluene	U		0.00109	0.00298	1	02/25/2019 13:47	WG1241792
4-Chlorotoluene	U		0.00134	0.00595	1	02/25/2019 13:47	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00607	0.0298	1	02/25/2019 13:47	WG1241792
1,2-Dibromoethane	U		0.000625	0.00298	1	02/25/2019 13:47	WG1241792
Dibromomethane	U		0.00119	0.00595	1	02/25/2019 13:47	WG1241792
1,2-Dichlorobenzene	U		0.00173	0.00595	1	02/25/2019 13:47	WG1241792
1,3-Dichlorobenzene	U		0.00202	0.00595	1	02/25/2019 13:47	WG1241792
1,4-Dichlorobenzene	U		0.00234	0.00595	1	02/25/2019 13:47	WG1241792
Dichlorodifluoromethane	U		0.000974	0.00298	1	02/25/2019 13:47	WG1241792
1,1-Dichloroethane	U		0.000684	0.00298	1	02/25/2019 13:47	WG1241792
1,2-Dichloroethane	U		0.000565	0.00298	1	03/02/2019 01:16	WG1244113
1,1-Dichloroethene	U		0.000595	0.00298	1	02/25/2019 13:47	WG1241792
cis-1,2-Dichloroethene	0.0372		0.000821	0.00298	1	02/25/2019 13:47	WG1241792
trans-1,2-Dichloroethene	U		0.00170	0.00595	1	02/25/2019 13:47	WG1241792
1,2-Dichloropropane	U		0.00151	0.00595	1	02/25/2019 13:47	WG1241792
1,1-Dichloropropene	U		0.000833	0.00298	1	02/25/2019 13:47	WG1241792
1,3-Dichloropropane	U		0.00208	0.00595	1	02/25/2019 13:47	WG1241792
cis-1,3-Dichloropropene	U		0.000807	0.00298	1	02/25/2019 13:47	WG1241792
trans-1,3-Dichloropropene	U		0.00182	0.00595	1	02/25/2019 13:47	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00167	0.00595	1	02/25/2019 13:47	WG1241792
2,2-Dichloropropane	U		0.000944	0.00298	1	02/25/2019 13:47	WG1241792
Di-isopropyl ether	U		0.000417	0.00119	1	02/25/2019 13:47	WG1241792
Ethylbenzene	U		0.000631	0.00298	1	02/25/2019 13:47	WG1241792
Hexachloro-1,3-butadiene	U		0.0151	0.0298	1	02/25/2019 13:47	WG1241792
2-Hexanone	U		0.0119	0.0298	1	02/25/2019 13:47	WG1241792
n-Hexane	U		0.00126	0.00595	1	02/25/2019 13:47	WG1241792
Iodomethane	U		0.00720	0.0149	1	02/25/2019 13:47	WG1241792
Isopropylbenzene	U		0.00103	0.00298	1	02/25/2019 13:47	WG1241792
p-Isopropyltoluene	U		0.00277	0.00595	1	02/25/2019 13:47	WG1241792
2-Butanone (MEK)	U		0.0149	0.0298	1	02/25/2019 13:47	WG1241792
Methylene Chloride	U		0.00790	0.0298	1	02/25/2019 13:47	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	02/25/2019 13:47	WG1241792

JC 3/20/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	UJ J0	0.000351	0.00119	1	02/25/2019 13:47	WG1241792
Naphthalene	U		0.00371	0.0149	1	02/25/2019 13:47	WG1241792
n-Propylbenzene	U		0.00140	0.00595	1	02/25/2019 13:47	WG1241792
Styrene	U	UJ J4	0.00325	0.0149	1	02/25/2019 13:47	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000595	0.00298	1	02/25/2019 13:47	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000464	0.00298	1	02/25/2019 13:47	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000803	0.00298	1	02/25/2019 13:47	WG1241792
Tetrachloroethene	0.00806		0.000833	0.00298	1	02/25/2019 13:47	WG1241792
Toluene	U		0.00149	0.00595	1	02/25/2019 13:47	WG1241792
1,2,3-Trichlorobenzene	U		0.000744	0.00298	1	02/25/2019 13:47	WG1241792
1,2,4-Trichlorobenzene	U		0.00574	0.0149	1	02/25/2019 13:47	WG1241792
1,1,1-Trichloroethane	U		0.000327	0.00298	1	02/25/2019 13:47	WG1241792
1,1,2-Trichloroethane	U		0.00105	0.00298	1	02/25/2019 13:47	WG1241792
Trichloroethene	0.00229		0.000476	0.00119	1	02/25/2019 13:47	WG1241792
Trichlorofluoromethane	U		0.000595	0.00298	1	02/25/2019 13:47	WG1241792
1,2,3-Trichloropropane	U		0.00607	0.0149	1	02/25/2019 13:47	WG1241792
1,2,4-Trimethylbenzene	U		0.00138	0.00595	1	02/25/2019 13:47	WG1241792
1,2,3-Trimethylbenzene	U		0.00137	0.00595	1	02/25/2019 13:47	WG1241792
1,3,5-Trimethylbenzene	U		0.00129	0.00595	1	02/25/2019 13:47	WG1241792
Vinyl acetate	U		0.00419	0.0149	1	02/25/2019 13:47	WG1241792
Vinyl chloride	U		0.000813	0.00298	1	02/25/2019 13:47	WG1241792
Xylenes, Total	U		0.00569	0.00774	1	02/25/2019 13:47	WG1241792
(S) Toluene-d8	*99.5*			*75.0-131*		*02/25/2019 13:47*	WG1241792
(S) Toluene-d8	*101*			*75.0-131*		*03/02/2019 01:16*	WG1244113
(S) 4-Bromofluorobenzene	*89.4*			*67.0-138*		*02/25/2019 13:47*	WG1241792
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*03/02/2019 01:16*	WG1244113
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*02/25/2019 13:47*	WG1241792
(S) 1,2-Dichloroethane-d4	*85.7*			*70.0-130*		*03/02/2019 01:16*	WG1244113

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.0		1	02/27/2019 16:21	WG1242107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0165	0.0301	1	02/25/2019 14:07	WG1241792
Acrylonitrile	U		0.00229	0.0151	1	02/25/2019 14:07	WG1241792
Benzene	U		0.000482	0.00120	1	02/25/2019 14:07	WG1241792
Bromobenzene	U		0.00126	0.0151	1	02/25/2019 14:07	WG1241792
Bromodichloromethane	U		0.000949	0.00301	1	02/25/2019 14:07	WG1241792
Bromochloromethane	U		0.00136	0.00602	1	02/25/2019 14:07	WG1241792
Bromoform	U		0.00720	0.0301	1	03/02/2019 01:38	WG1244113
Bromomethane	U	~~J4~~	0.00446	0.0151	1	02/25/2019 14:07	WG1241792
n-Butylbenzene	U		0.00463	0.0151	1	02/25/2019 14:07	WG1241792
sec-Butylbenzene	U		0.00305	0.0151	1	02/25/2019 14:07	WG1241792
tert-Butylbenzene	U		0.00187	0.00602	1	02/25/2019 14:07	WG1241792
Carbon disulfide	U		0.00489	0.0151	1	02/25/2019 14:07	WG1241792
Carbon tetrachloride	U		0.00130	0.00602	1	02/25/2019 14:07	WG1241792
Chlorobenzene	U		0.000690	0.00301	1	02/25/2019 14:07	WG1241792
Chlorodibromomethane	U		0.000542	0.00301	1	02/25/2019 14:07	WG1241792
Chloroethane	U		0.00130	0.00602	1	02/25/2019 14:07	WG1241792
Chloroform	U		0.000500	0.00301	1	02/25/2019 14:07	WG1241792
Chloromethane	U		0.00167	0.0151	1	02/25/2019 14:07	WG1241792
2-Chlorotoluene	U		0.00111	0.00301	1	02/25/2019 14:07	WG1241792
4-Chlorotoluene	U		0.00136	0.00602	1	02/25/2019 14:07	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00614	0.0301	1	02/25/2019 14:07	WG1241792
1,2-Dibromoethane	U		0.000632	0.00301	1	02/25/2019 14:07	WG1241792
Dibromomethane	U		0.00120	0.00602	1	02/25/2019 14:07	WG1241792
1,2-Dichlorobenzene	U		0.00175	0.00602	1	02/25/2019 14:07	WG1241792
1,3-Dichlorobenzene	U		0.00205	0.00602	1	02/25/2019 14:07	WG1241792
1,4-Dichlorobenzene	U		0.00237	0.00602	1	02/25/2019 14:07	WG1241792
Dichlorodifluoromethane	U		0.000985	0.00301	1	02/25/2019 14:07	WG1241792
1,1-Dichloroethane	U		0.000693	0.00301	1	02/25/2019 14:07	WG1241792
1,2-Dichloroethane	U		0.000572	0.00301	1	03/02/2019 01:38	WG1244113
1,1-Dichloroethene	0.00190 J	J	0.000602	0.00301	1	02/25/2019 14:07	WG1241792
cis-1,2-Dichloroethene	0.402		0.000831	0.00301	1	02/25/2019 14:07	WG1241792
trans-1,2-Dichloroethene	0.00889		0.00172	0.00602	1	02/25/2019 14:07	WG1241792
1,2-Dichloropropane	U		0.00153	0.00602	1	02/25/2019 14:07	WG1241792
1,1-Dichloropropene	U		0.000843	0.00301	1	02/25/2019 14:07	WG1241792
1,3-Dichloropropane	U		0.00211	0.00602	1	02/25/2019 14:07	WG1241792
cis-1,3-Dichloropropene	U		0.000817	0.00301	1	02/25/2019 14:07	WG1241792
trans-1,3-Dichloropropene	U		0.00184	0.00602	1	02/25/2019 14:07	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00169	0.00602	1	02/25/2019 14:07	WG1241792
2,2-Dichloropropane	U		0.000955	0.00301	1	02/25/2019 14:07	WG1241792
Di-isopropyl ether	U		0.000422	0.00120	1	02/25/2019 14:07	WG1241792
Ethylbenzene	U		0.000638	0.00301	1	02/25/2019 14:07	WG1241792
Hexachloro-1,3-butadiene	U		0.0153	0.0301	1	02/25/2019 14:07	WG1241792
2-Hexanone	U		0.0120	0.0301	1	02/25/2019 14:07	WG1241792
n-Hexane	0.00133 U	B J	0.00128	0.00602	1	02/25/2019 14:07	WG1241792
Iodomethane	U		0.00729	0.0151	1	02/25/2019 14:07	WG1241792
Isopropylbenzene	U		0.00104	0.00301	1	02/25/2019 14:07	WG1241792
p-Isopropyltoluene	U		0.00281	0.00602	1	02/25/2019 14:07	WG1241792
2-Butanone (MEK)	U		0.0151	0.0301	1	02/25/2019 14:07	WG1241792
Methylene Chloride	U		0.00800	0.0301	1	02/25/2019 14:07	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0301	1	02/25/2019 14:07	WG1241792

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000355	0.00120	1	02/25/2019 14:07	WG1241792
Naphthalene	U		0.00376	0.0151	1	02/25/2019 14:07	WG1241792
n-Propylbenzene	U		0.00142	0.00602	1	02/25/2019 14:07	WG1241792
Styrene	U UJ	J4	0.00329	0.0151	1	02/25/2019 14:07	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000602	0.00301	1	02/25/2019 14:07	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000470	0.00301	1	02/25/2019 14:07	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000813	0.00301	1	02/25/2019 14:07	WG1241792
Tetrachloroethene	0.441		0.000843	0.00301	1	02/25/2019 14:07	WG1241792
Toluene	U		0.00151	0.00602	1	02/25/2019 14:07	WG1241792
1,2,3-Trichlorobenzene	U		0.000753	0.00301	1	02/25/2019 14:07	WG1241792
1,2,4-Trichlorobenzene	U		0.00581	0.0151	1	02/25/2019 14:07	WG1241792
1,1,1-Trichloroethane	U		0.000331	0.00301	1	02/25/2019 14:07	WG1241792
1,1,2-Trichloroethane	U		0.00106	0.00301	1	02/25/2019 14:07	WG1241792
Trichloroethene	0.147		0.000482	0.00120	1	02/25/2019 14:07	WG1241792
Trichlorofluoromethane	U		0.000602	0.00301	1	02/25/2019 14:07	WG1241792
1,2,3-Trichloropropane	U		0.00614	0.0151	1	02/25/2019 14:07	WG1241792
1,2,4-Trimethylbenzene	U		0.00140	0.00602	1	02/25/2019 14:07	WG1241792
1,2,3-Trimethylbenzene	U		0.00139	0.00602	1	02/25/2019 14:07	WG1241792
1,3,5-Trimethylbenzene	U		0.00130	0.00602	1	02/25/2019 14:07	WG1241792
Vinyl acetate	U		0.00424	0.0151	1	02/25/2019 14:07	WG1241792
Vinyl chloride	U		0.000823	0.00301	1	02/25/2019 14:07	WG1241792
Xylenes, Total	U		0.00576	0.00783	1	02/25/2019 14:07	WG1241792
(S) Toluene-d8	*100*			*75.0-131*		*02/25/2019 14:07*	WG1241792
(S) Toluene-d8	*102*			*75.0-131*		*03/02/2019 01:38*	WG1244113
(S) 4-Bromofluorobenzene	*93.3*			*67.0-138*		*02/25/2019 14:07*	WG1241792
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*		*03/02/2019 01:38*	WG1244113
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*02/25/2019 14:07*	WG1241792
(S) 1,2-Dichloroethane-d4	*86.1*			*70.0-130*		*03/02/2019 01:38*	WG1244113

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.1		1	02/27/2019 16:21	WG1242107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0149	0.0271	1	02/25/2019 14:27	WG1241792
Acrylonitrile	U		0.00206	0.0136	1	02/25/2019 14:27	WG1241792
Benzene	0.000453 J	J	0.000434	0.00109	1	02/25/2019 14:27	WG1241792
Bromobenzene	U		0.00114	0.0136	1	02/25/2019 14:27	WG1241792
Bromodichloromethane	U		0.000855	0.00271	1	02/25/2019 14:27	WG1241792
Bromochloromethane	U		0.00123	0.00543	1	02/25/2019 14:27	WG1241792
Bromoform	U		0.0519	0.217	8	03/02/2019 05:44	WG1244113
Bromomethane	U	~~J4~~	0.00402	0.0136	1	02/25/2019 14:27	WG1241792
n-Butylbenzene	U		0.00417	0.0136	1	02/25/2019 14:27	WG1241792
sec-Butylbenzene	U		0.00275	0.0136	1	02/25/2019 14:27	WG1241792
tert-Butylbenzene	U		0.00168	0.00543	1	02/25/2019 14:27	WG1241792
Carbon disulfide	U		0.00441	0.0136	1	02/25/2019 14:27	WG1241792
Carbon tetrachloride	U		0.00117	0.00543	1	02/25/2019 14:27	WG1241792
Chlorobenzene	U		0.000622	0.00271	1	02/25/2019 14:27	WG1241792
Chlorodibromomethane	U		0.000489	0.00271	1	02/25/2019 14:27	WG1241792
Chloroethane	U		0.00117	0.00543	1	02/25/2019 14:27	WG1241792
Chloroform	U		0.000451	0.00271	1	02/25/2019 14:27	WG1241792
Chloromethane	U		0.00151	0.0136	1	02/25/2019 14:27	WG1241792
2-Chlorotoluene	U		0.000999	0.00271	1	02/25/2019 14:27	WG1241792
4-Chlorotoluene	U		0.00123	0.00543	1	02/25/2019 14:27	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00554	0.0271	1	02/25/2019 14:27	WG1241792
1,2-Dibromoethane	U		0.000570	0.00271	1	02/25/2019 14:27	WG1241792
Dibromomethane	U		0.00109	0.00543	1	02/25/2019 14:27	WG1241792
1,2-Dichlorobenzene	U		0.00157	0.00543	1	02/25/2019 14:27	WG1241792
1,3-Dichlorobenzene	U		0.00185	0.00543	1	02/25/2019 14:27	WG1241792
1,4-Dichlorobenzene	U		0.00214	0.00543	1	02/25/2019 14:27	WG1241792
Dichlorodifluoromethane	U		0.000888	0.00271	1	02/25/2019 14:27	WG1241792
1,1-Dichloroethane	U		0.000624	0.00271	1	02/25/2019 14:27	WG1241792
1,2-Dichloroethane	U		0.00413	0.0217	8	03/02/2019 05:44	WG1244113
1,1-Dichloroethene	0.00535		0.000543	0.00271	1	02/25/2019 14:27	WG1241792
cis-1,2-Dichloroethene	0.420		0.00599	0.0217	8	03/02/2019 05:44	WG1244113
trans-1,2-Dichloroethene	0.0293		0.00155	0.00543	1	02/25/2019 14:27	WG1241792
1,2-Dichloropropane	U		0.00138	0.00543	1	02/25/2019 14:27	WG1241792
1,1-Dichloropropene	U		0.000760	0.00271	1	02/25/2019 14:27	WG1241792
1,3-Dichloropropane	U		0.00190	0.00543	1	02/25/2019 14:27	WG1241792
cis-1,3-Dichloropropene	U		0.000736	0.00271	1	02/25/2019 14:27	WG1241792
trans-1,3-Dichloropropene	U		0.00166	0.00543	1	02/25/2019 14:27	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00152	0.00543	1	02/25/2019 14:27	WG1241792
2,2-Dichloropropane	U		0.000861	0.00271	1	02/25/2019 14:27	WG1241792
Di-isopropyl ether	U		0.000380	0.00109	1	02/25/2019 14:27	WG1241792
Ethylbenzene	U		0.000575	0.00271	1	02/25/2019 14:27	WG1241792
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	02/25/2019 14:27	WG1241792
2-Hexanone	U		0.0109	0.0271	1	02/25/2019 14:27	WG1241792
n-Hexane	0.00276 U	B J	0.00115	0.00543	1	02/25/2019 14:27	WG1241792
Iodomethane	U		0.00657	0.0136	1	02/25/2019 14:27	WG1241792
Isopropylbenzene	U		0.000937	0.00271	1	02/25/2019 14:27	WG1241792
p-Isopropyltoluene	U		0.00253	0.00543	1	02/25/2019 14:27	WG1241792
2-Butanone (MEK)	U		0.0136	0.0271	1	02/25/2019 14:27	WG1241792
Methylene Chloride	U		0.00721	0.0271	1	02/25/2019 14:27	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0271	1	02/25/2019 14:27	WG1241792

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000320	0.00109	1	02/25/2019 14:27	WG1241792
Naphthalene	U		0.00339	0.0136	1	02/25/2019 14:27	WG1241792
n-Propylbenzene	U		0.00128	0.00543	1	02/25/2019 14:27	WG1241792
Styrene	U UJ	J4	0.00296	0.0136	1	02/25/2019 14:27	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000543	0.00271	1	02/25/2019 14:27	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	02/25/2019 14:27	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000733	0.00271	1	02/25/2019 14:27	WG1241792
Tetrachloroethene	0.575		0.00608	0.0217	8	03/02/2019 05:44	WG1244113
Toluene	0.00140 J	J	0.00136	0.00543	1	02/25/2019 14:27	WG1241792
1,2,3-Trichlorobenzene	U		0.000678	0.00271	1	02/25/2019 14:27	WG1241792
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	02/25/2019 14:27	WG1241792
1,1,1-Trichloroethane	U		0.000299	0.00271	1	02/25/2019 14:27	WG1241792
1,1,2-Trichloroethane	U		0.000959	0.00271	1	02/25/2019 14:27	WG1241792
Trichloroethene	0.577		0.000434	0.00109	1	02/25/2019 14:27	WG1241792
Trichlorofluoromethane	U		0.000543	0.00271	1	02/25/2019 14:27	WG1241792
1,2,3-Trichloropropane	U		0.00554	0.0136	1	02/25/2019 14:27	WG1241792
1,2,4-Trimethylbenzene	U		0.00126	0.00543	1	02/25/2019 14:27	WG1241792
1,2,3-Trimethylbenzene	U		0.00125	0.00543	1	02/25/2019 14:27	WG1241792
1,3,5-Trimethylbenzene	U		0.00117	0.00543	1	02/25/2019 14:27	WG1241792
Vinyl acetate	U		0.00382	0.0136	1	02/25/2019 14:27	WG1241792
Vinyl chloride	U		0.000741	0.00271	1	02/25/2019 14:27	WG1241792
Xylenes, Total	U		0.00519	0.00706	1	02/25/2019 14:27	WG1241792
(S) Toluene-d8	*99.8*			*75.0-131*		*02/25/2019 14:27*	WG1241792
(S) Toluene-d8	*101*			*75.0-131*		*03/02/2019 05:44*	WG1244113
(S) 4-Bromofluorobenzene	*93.4*			*67.0-138*		*02/25/2019 14:27*	WG1241792
(S) 4-Bromofluorobenzene	*95.5*			*67.0-138*		*03/02/2019 05:44*	WG1244113
(S) 1,2-Dichloroethane-d4	*96.5*			*70.0-130*		*02/25/2019 14:27*	WG1241792
(S) 1,2-Dichloroethane-d4	*91.5*			*70.0-130*		*03/02/2019 05:44*	WG1244113

Sample Narrative:

L1072936-05 WG1241792, WG1244113: Not all compounds reportable at lower dilution,

L1072936-05 WG1241792, WG1244113: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.7		1	02/27/2019 16:21	WG1242107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0162	0.0295	1	02/25/2019 14:47	WG1241792
Acrylonitrile	U		0.00224	0.0148	1	02/25/2019 14:47	WG1241792
Benzene	0.000692 J	J	0.000472	0.00118	1	02/25/2019 14:47	WG1241792
Bromobenzene	U		0.00124	0.0148	1	02/25/2019 14:47	WG1241792
Bromodichloromethane	U		0.000931	0.00295	1	02/25/2019 14:47	WG1241792
Bromochloromethane	U		0.00133	0.00590	1	02/25/2019 14:47	WG1241792
Bromoform	U		0.00706	0.0295	1	03/02/2019 02:01	WG1244113
Bromomethane	U	~~J4~~	0.00437	0.0148	1	02/25/2019 14:47	WG1241792
n-Butylbenzene	U		0.00453	0.0148	1	02/25/2019 14:47	WG1241792
sec-Butylbenzene	U		0.00299	0.0148	1	02/25/2019 14:47	WG1241792
tert-Butylbenzene	U		0.00183	0.00590	1	02/25/2019 14:47	WG1241792
Carbon disulfide	U		0.00479	0.0148	1	02/25/2019 14:47	WG1241792
Carbon tetrachloride	U		0.00128	0.00590	1	02/25/2019 14:47	WG1241792
Chlorobenzene	U		0.000677	0.00295	1	02/25/2019 14:47	WG1241792
Chlorodibromomethane	U		0.000531	0.00295	1	02/25/2019 14:47	WG1241792
Chloroethane	U		0.00128	0.00590	1	02/25/2019 14:47	WG1241792
Chloroform	U		0.000490	0.00295	1	02/25/2019 14:47	WG1241792
Chloromethane	U		0.00164	0.0148	1	02/25/2019 14:47	WG1241792
2-Chlorotoluene	U		0.00109	0.00295	1	02/25/2019 14:47	WG1241792
4-Chlorotoluene	U		0.00133	0.00590	1	02/25/2019 14:47	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00602	0.0295	1	02/25/2019 14:47	WG1241792
1,2-Dibromoethane	U		0.000620	0.00295	1	02/25/2019 14:47	WG1241792
Dibromomethane	U		0.00118	0.00590	1	02/25/2019 14:47	WG1241792
1,2-Dichlorobenzene	U		0.00171	0.00590	1	02/25/2019 14:47	WG1241792
1,3-Dichlorobenzene	U		0.00201	0.00590	1	02/25/2019 14:47	WG1241792
1,4-Dichlorobenzene	U		0.00233	0.00590	1	02/25/2019 14:47	WG1241792
Dichlorodifluoromethane	U		0.000966	0.00295	1	02/25/2019 14:47	WG1241792
1,1-Dichloroethane	U		0.000679	0.00295	1	02/25/2019 14:47	WG1241792
1,2-Dichloroethane	U		0.000561	0.00295	1	03/02/2019 02:01	WG1244113
1,1-Dichloroethene	U		0.000590	0.00295	1	02/25/2019 14:47	WG1241792
cis-1,2-Dichloroethene	0.0713		0.000815	0.00295	1	03/02/2019 02:01	WG1244113
trans-1,2-Dichloroethene	0.00213 J	J	0.00169	0.00590	1	02/25/2019 14:47	WG1241792
1,2-Dichloropropane	U		0.00150	0.00590	1	02/25/2019 14:47	WG1241792
1,1-Dichloropropene	U		0.000827	0.00295	1	02/25/2019 14:47	WG1241792
1,3-Dichloropropane	U		0.00207	0.00590	1	02/25/2019 14:47	WG1241792
cis-1,3-Dichloropropene	U		0.000801	0.00295	1	02/25/2019 14:47	WG1241792
trans-1,3-Dichloropropene	U		0.00181	0.00590	1	02/25/2019 14:47	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00165	0.00590	1	02/25/2019 14:47	WG1241792
2,2-Dichloropropane	U		0.000936	0.00295	1	02/25/2019 14:47	WG1241792
Di-isopropyl ether	U		0.000413	0.00118	1	02/25/2019 14:47	WG1241792
Ethylbenzene	U		0.000626	0.00295	1	02/25/2019 14:47	WG1241792
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	02/25/2019 14:47	WG1241792
2-Hexanone	U		0.0118	0.0295	1	02/25/2019 14:47	WG1241792
n-Hexane	0.00213 U	B J	0.00125	0.00590	1	02/25/2019 14:47	WG1241792
Iodomethane	U		0.00714	0.0148	1	02/25/2019 14:47	WG1241792
Isopropylbenzene	U		0.00102	0.00295	1	02/25/2019 14:47	WG1241792
p-Isopropyltoluene	U		0.00275	0.00590	1	02/25/2019 14:47	WG1241792
2-Butanone (MEK)	U		0.0148	0.0295	1	02/25/2019 14:47	WG1241792
Methylene Chloride	U		0.00784	0.0295	1	02/25/2019 14:47	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	02/25/2019 14:47	WG1241792

JC 3/20/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000348	0.00118	1	02/25/2019 14:47	WG1241792
Naphthalene	U		0.00368	0.0148	1	02/25/2019 14:47	WG1241792
n-Propylbenzene	U		0.00139	0.00590	1	02/25/2019 14:47	WG1241792
Styrene	U UJ	J4	0.00322	0.0148	1	02/25/2019 14:47	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000590	0.00295	1	02/25/2019 14:47	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000461	0.00295	1	02/25/2019 14:47	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000797	0.00295	1	02/25/2019 14:47	WG1241792
Tetrachloroethene	0.00500		0.000827	0.00295	1	03/02/2019 02:01	WG1244113
Toluene	0.00187 J	J	0.00148	0.00590	1	02/25/2019 14:47	WG1241792
1,2,3-Trichlorobenzene	U		0.000738	0.00295	1	02/25/2019 14:47	WG1241792
1,2,4-Trichlorobenzene	U		0.00569	0.0148	1	02/25/2019 14:47	WG1241792
1,1,1-Trichloroethane	U		0.000325	0.00295	1	02/25/2019 14:47	WG1241792
1,1,2-Trichloroethane	U		0.00104	0.00295	1	02/25/2019 14:47	WG1241792
Trichloroethene	0.0210		0.000472	0.00118	1	02/25/2019 14:47	WG1241792
Trichlorofluoromethane	U		0.000590	0.00295	1	02/25/2019 14:47	WG1241792
1,2,3-Trichloropropane	U		0.00602	0.0148	1	02/25/2019 14:47	WG1241792
1,2,4-Trimethylbenzene	U		0.00137	0.00590	1	02/25/2019 14:47	WG1241792
1,2,3-Trimethylbenzene	U		0.00136	0.00590	1	02/25/2019 14:47	WG1241792
1,3,5-Trimethylbenzene	U		0.00128	0.00590	1	02/25/2019 14:47	WG1241792
Vinyl acetate	U		0.00416	0.0148	1	02/25/2019 14:47	WG1241792
Vinyl chloride	U		0.000807	0.00295	1	02/25/2019 14:47	WG1241792
Xylenes, Total	U		0.00564	0.00768	1	02/25/2019 14:47	WG1241792
(S) Toluene-d8	*99.3*			*75.0-131*		*02/25/2019 14:47*	WG1241792
(S) Toluene-d8	*101*			*75.0-131*		*03/02/2019 02:01*	WG1244113
(S) 4-Bromofluorobenzene	*91.4*			*67.0-138*		*02/25/2019 14:47*	WG1241792
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*		*03/02/2019 02:01*	WG1244113
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*02/25/2019 14:47*	WG1241792
(S) 1,2-Dichloroethane-d4	*87.0*			*70.0-130*		*03/02/2019 02:01*	WG1244113

JC 3/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.5		1	02/27/2019 16:21	WG1242107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0303	0.0552	2	02/25/2019 15:07	WG1241792	
Acrylonitrile	U		0.00420	0.0276	2	02/25/2019 15:07	WG1241792	
Benzene	U		0.000884	0.00221	2	02/25/2019 15:07	WG1241792	
Bromobenzene	U		0.00232	0.0276	2	02/25/2019 15:07	WG1241792	
Bromodichloromethane	U		0.00175	0.00552	2	02/25/2019 15:07	WG1241792	
Bromochloromethane	U		0.00250	0.0110	2	02/25/2019 15:07	WG1241792	
Bromoform	U		0.0133	0.0552	2	03/02/2019 02:23	WG1244113	
Bromomethane	U	~~J4~~	0.00817	0.0276	2	02/25/2019 15:07	WG1241792	
n-Butylbenzene	U		0.00848	0.0276	2	02/25/2019 15:07	WG1241792	
sec-Butylbenzene	U		0.00559	0.0276	2	02/25/2019 15:07	WG1241792	
tert-Butylbenzene	U		0.00342	0.0110	2	02/25/2019 15:07	WG1241792	
Carbon disulfide	U		0.00897	0.0276	2	02/25/2019 15:07	WG1241792	
Carbon tetrachloride	U		0.00239	0.0110	2	02/25/2019 15:07	WG1241792	
Chlorobenzene	U		0.00127	0.00552	2	02/25/2019 15:07	WG1241792	
Chlorodibromomethane	U		0.000994	0.00552	2	02/25/2019 15:07	WG1241792	
Chloroethane	U		0.00239	0.0110	2	02/25/2019 15:07	WG1241792	
Chloroform	U		0.000917	0.00552	2	02/25/2019 15:07	WG1241792	
Chloromethane	U		0.00307	0.0276	2	02/25/2019 15:07	WG1241792	
2-Chlorotoluene	U		0.00203	0.00552	2	02/25/2019 15:07	WG1241792	
4-Chlorotoluene	U		0.00250	0.0110	2	02/25/2019 15:07	WG1241792	
1,2-Dibromo-3-Chloropropane	U		0.0113	0.0552	2	02/25/2019 15:07	WG1241792	
1,2-Dibromoethane	U		0.00116	0.00552	2	02/25/2019 15:07	WG1241792	
Dibromomethane	U		0.00221	0.0110	2	02/25/2019 15:07	WG1241792	
1,2-Dichlorobenzene	U		0.00320	0.0110	2	02/25/2019 15:07	WG1241792	
1,3-Dichlorobenzene	U		0.00376	0.0110	2	02/25/2019 15:07	WG1241792	
1,4-Dichlorobenzene	U		0.00435	0.0110	2	02/25/2019 15:07	WG1241792	
Dichlorodifluoromethane	U		0.00181	0.00552	2	02/25/2019 15:07	WG1241792	
1,1-Dichloroethane	U		0.00127	0.00552	2	02/25/2019 15:07	WG1241792	
1,2-Dichloroethane	U		0.00105	0.00552	2	03/02/2019 02:23	WG1244113	
1,1-Dichloroethene	0.00763		0.00110	0.00552	2	02/25/2019 15:07	WG1241792	
cis-1,2-Dichloroethene	1.82		0.00152	0.00552	2	02/25/2019 15:07	WG1241792	
trans-1,2-Dichloroethene	0.00347 J	J	0.00316	0.0110	2	02/25/2019 15:07	WG1241792	
1,2-Dichloropropane	U		0.00281	0.0110	2	02/25/2019 15:07	WG1241792	
1,1-Dichloropropene	U		0.00155	0.00552	2	02/25/2019 15:07	WG1241792	
1,3-Dichloropropane	U		0.00387	0.0110	2	02/25/2019 15:07	WG1241792	
cis-1,3-Dichloropropene	U		0.00150	0.00552	2	02/25/2019 15:07	WG1241792	
trans-1,3-Dichloropropene	U		0.00338	0.0110	2	02/25/2019 15:07	WG1241792	
trans-1,4-Dichloro-2-butene	U		0.00309	0.0110	2	02/25/2019 15:07	WG1241792	
2,2-Dichloropropane	U		0.00176	0.00552	2	02/25/2019 15:07	WG1241792	
Di-isopropyl ether	U		0.000773	0.00221	2	02/25/2019 15:07	WG1241792	
Ethylbenzene	U		0.00117	0.00552	2	02/25/2019 15:07	WG1241792	
Hexachloro-1,3-butadiene	U		0.0281	0.0552	2	02/25/2019 15:07	WG1241792	
2-Hexanone	U		0.0221	0.0552	2	02/25/2019 15:07	WG1241792	
n-Hexane	0.00347 U	B J	0.00234	0.0110	2	02/25/2019 15:07	WG1241792	
Iodomethane	U		0.0134	0.0276	2	02/25/2019 15:07	WG1241792	
Isopropylbenzene	U		0.00191	0.00552	2	02/25/2019 15:07	WG1241792	
p-Isopropyltoluene	U		0.00515	0.0110	2	02/25/2019 15:07	WG1241792	
2-Butanone (MEK)	U		0.0276	0.0552	2	02/25/2019 15:07	WG1241792	JC 3/20/19
Methylene Chloride	U		0.0147	0.0552	2	02/25/2019 15:07	WG1241792	
4-Methyl-2-pentanone (MIBK)	U		0.0221	0.0552	2	02/25/2019 15:07	WG1241792	

B6D6-45
Collected date/time: 02/20/19 16:55

SAMPLE RESULTS - 07

L1072936

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000652	0.00221	2	02/25/2019 15:07	WG1241792
Naphthalene	U		0.00689	0.0276	2	02/25/2019 15:07	WG1241792
n-Propylbenzene	U		0.00261	0.0110	2	02/25/2019 15:07	WG1241792
Styrene	U UJ	J4	0.00603	0.0276	2	02/25/2019 15:07	WG1241792
1,1,1,2-Tetrachloroethane	U		0.00110	0.00552	2	02/25/2019 15:07	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000861	0.00552	2	02/25/2019 15:07	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.00149	0.00552	2	02/25/2019 15:07	WG1241792
Tetrachloroethene	0.193		0.00155	0.00552	2	02/25/2019 15:07	WG1241792
Toluene	0.00282 J	J	0.00276	0.0110	2	02/25/2019 15:07	WG1241792
1,2,3-Trichlorobenzene	U		0.00138	0.00552	2	02/25/2019 15:07	WG1241792
1,2,4-Trichlorobenzene	U		0.0106	0.0276	2	02/25/2019 15:07	WG1241792
1,1,1-Trichloroethane	U		0.000607	0.00552	2	02/25/2019 15:07	WG1241792
1,1,2-Trichloroethane	U		0.00195	0.00552	2	02/25/2019 15:07	WG1241792
Trichloroethene	0.316		0.000884	0.00221	2	02/25/2019 15:07	WG1241792
Trichlorofluoromethane	U		0.00110	0.00552	2	02/25/2019 15:07	WG1241792
1,2,3-Trichloropropane	U		0.0113	0.0276	2	02/25/2019 15:07	WG1241792
1,2,4-Trimethylbenzene	U		0.00256	0.0110	2	02/25/2019 15:07	WG1241792
1,2,3-Trimethylbenzene	U		0.00254	0.0110	2	02/25/2019 15:07	WG1241792
1,3,5-Trimethylbenzene	U		0.00239	0.0110	2	02/25/2019 15:07	WG1241792
Vinyl acetate	U		0.00778	0.0276	2	02/25/2019 15:07	WG1241792
Vinyl chloride	0.00759		0.00151	0.00552	2	02/25/2019 15:07	WG1241792
Xylenes, Total	U		0.0106	0.0144	2	02/25/2019 15:07	WG1241792
(S) Toluene-d8	*99.0*			*75.0-131*		*02/25/2019 15:07*	WG1241792
(S) Toluene-d8	*100*			*75.0-131*		*03/02/2019 02:23*	WG1244113
(S) 4-Bromofluorobenzene	*90.2*			*67.0-138*		*02/25/2019 15:07*	WG1241792
(S) 4-Bromofluorobenzene	*96.4*			*67.0-138*		*03/02/2019 02:23*	WG1244113
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*02/25/2019 15:07*	WG1241792
(S) 1,2-Dichloroethane-d4	*87.4*			*70.0-130*		*03/02/2019 02:23*	WG1244113

Sample Narrative:

L1072936-07 WG1241792, WG1244113: Dilution due to sample volume.

JC 3/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.4		1	02/27/2019 16:21	WG1242107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0147	0.0268	1	02/25/2019 15:26	WG1241792
Acrylonitrile	U		0.00203	0.0134	1	02/25/2019 15:26	WG1241792
Benzene	U		0.000428	0.00107	1	02/25/2019 15:26	WG1241792
Bromobenzene	U		0.00112	0.0134	1	02/25/2019 15:26	WG1241792
Bromodichloromethane	U		0.000844	0.00268	1	02/25/2019 15:26	WG1241792
Bromochloromethane	U		0.00121	0.00535	1	02/25/2019 15:26	WG1241792
Bromoform	U		0.00640	0.0268	1	03/02/2019 02:45	WG1244113
Bromomethane	U	~~J4~~	0.00396	0.0134	1	02/25/2019 15:26	WG1241792
n-Butylbenzene	U		0.00411	0.0134	1	02/25/2019 15:26	WG1241792
sec-Butylbenzene	U		0.00271	0.0134	1	02/25/2019 15:26	WG1241792
tert-Butylbenzene	U		0.00166	0.00535	1	02/25/2019 15:26	WG1241792
Carbon disulfide	U		0.00435	0.0134	1	02/25/2019 15:26	WG1241792
Carbon tetrachloride	U		0.00116	0.00535	1	02/25/2019 15:26	WG1241792
Chlorobenzene	U		0.000613	0.00268	1	02/25/2019 15:26	WG1241792
Chlorodibromomethane	U		0.000482	0.00268	1	02/25/2019 15:26	WG1241792
Chloroethane	U		0.00116	0.00535	1	02/25/2019 15:26	WG1241792
Chloroform	U		0.000444	0.00268	1	02/25/2019 15:26	WG1241792
Chloromethane	U		0.00149	0.0134	1	02/25/2019 15:26	WG1241792
2-Chlorotoluene	U		0.000985	0.00268	1	02/25/2019 15:26	WG1241792
4-Chlorotoluene	U		0.00121	0.00535	1	02/25/2019 15:26	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00546	0.0268	1	02/25/2019 15:26	WG1241792
1,2-Dibromoethane	U		0.000562	0.00268	1	02/25/2019 15:26	WG1241792
Dibromomethane	U		0.00107	0.00535	1	02/25/2019 15:26	WG1241792
1,2-Dichlorobenzene	U		0.00155	0.00535	1	02/25/2019 15:26	WG1241792
1,3-Dichlorobenzene	U		0.00182	0.00535	1	02/25/2019 15:26	WG1241792
1,4-Dichlorobenzene	U		0.00211	0.00535	1	02/25/2019 15:26	WG1241792
Dichlorodifluoromethane	U		0.000876	0.00268	1	02/25/2019 15:26	WG1241792
1,1-Dichloroethane	U		0.000616	0.00268	1	02/25/2019 15:26	WG1241792
1,2-Dichloroethane	U		0.000509	0.00268	1	03/02/2019 02:45	WG1244113
1,1-Dichloroethene	U		0.000535	0.00268	1	02/25/2019 15:26	WG1241792
cis-1,2-Dichloroethene	0.00754		0.000739	0.00268	1	02/25/2019 15:26	WG1241792
trans-1,2-Dichloroethene	U		0.00153	0.00535	1	02/25/2019 15:26	WG1241792
1,2-Dichloropropane	U		0.00136	0.00535	1	02/25/2019 15:26	WG1241792
1,1-Dichloropropene	U		0.000749	0.00268	1	02/25/2019 15:26	WG1241792
1,3-Dichloropropane	U		0.00187	0.00535	1	02/25/2019 15:26	WG1241792
cis-1,3-Dichloropropene	U		0.000726	0.00268	1	02/25/2019 15:26	WG1241792
trans-1,3-Dichloropropene	U		0.00164	0.00535	1	02/25/2019 15:26	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00150	0.00535	1	02/25/2019 15:26	WG1241792
2,2-Dichloropropane	U		0.000849	0.00268	1	02/25/2019 15:26	WG1241792
Di-isopropyl ether	U		0.000375	0.00107	1	02/25/2019 15:26	WG1241792
Ethylbenzene	U		0.000567	0.00268	1	02/25/2019 15:26	WG1241792
Hexachloro-1,3-butadiene	U		0.0136	0.0268	1	02/25/2019 15:26	WG1241792
2-Hexanone	U		0.0107	0.0268	1	02/25/2019 15:26	WG1241792
n-Hexane	0.00281 U	B J	0.00113	0.00535	1	02/25/2019 15:26	WG1241792
Iodomethane	U		0.00648	0.0134	1	02/25/2019 15:26	WG1241792
Isopropylbenzene	U		0.000924	0.00268	1	02/25/2019 15:26	WG1241792
p-Isopropyltoluene	U		0.00249	0.00535	1	02/25/2019 15:26	WG1241792
2-Butanone (MEK)	U		0.0134	0.0268	1	02/25/2019 15:26	WG1241792
Methylene Chloride	U		0.00711	0.0268	1	02/25/2019 15:26	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0268	1	02/25/2019 15:26	WG1241792

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000316	0.00107	1	02/25/2019 15:26	WG1241792
Naphthalene	U		0.00334	0.0134	1	02/25/2019 15:26	WG1241792
n-Propylbenzene	U		0.00126	0.00535	1	02/25/2019 15:26	WG1241792
Styrene	U UJ	J4	0.00292	0.0134	1	02/25/2019 15:26	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000535	0.00268	1	02/25/2019 15:26	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000418	0.00268	1	02/25/2019 15:26	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000723	0.00268	1	02/25/2019 15:26	WG1241792
Tetrachloroethene	0.00513		0.000749	0.00268	1	02/25/2019 15:26	WG1241792
Toluene	0.00156 J	J	0.00134	0.00535	1	02/25/2019 15:26	WG1241792
1,2,3-Trichlorobenzene	U		0.000669	0.00268	1	02/25/2019 15:26	WG1241792
1,2,4-Trichlorobenzene	U		0.00516	0.0134	1	02/25/2019 15:26	WG1241792
1,1,1-Trichloroethane	U		0.000294	0.00268	1	02/25/2019 15:26	WG1241792
1,1,2-Trichloroethane	U		0.000945	0.00268	1	02/25/2019 15:26	WG1241792
Trichloroethene	0.00153		0.000428	0.00107	1	02/25/2019 15:26	WG1241792
Trichlorofluoromethane	U		0.000535	0.00268	1	02/25/2019 15:26	WG1241792
1,2,3-Trichloropropane	U		0.00546	0.0134	1	02/25/2019 15:26	WG1241792
1,2,4-Trimethylbenzene	U		0.00124	0.00535	1	02/25/2019 15:26	WG1241792
1,2,3-Trimethylbenzene	U		0.00123	0.00535	1	02/25/2019 15:26	WG1241792
1,3,5-Trimethylbenzene	U		0.00116	0.00535	1	02/25/2019 15:26	WG1241792
Vinyl acetate	U		0.00377	0.0134	1	02/25/2019 15:26	WG1241792
Vinyl chloride	U		0.000731	0.00268	1	02/25/2019 15:26	WG1241792
Xylenes, Total	U		0.00512	0.00696	1	02/25/2019 15:26	WG1241792
(S) Toluene-d8	*99.0*			*75.0-131*		*02/25/2019 15:26*	WG1241792
(S) Toluene-d8	*99.8*			*75.0-131*		*03/02/2019 02:45*	WG1244113
(S) 4-Bromofluorobenzene	*92.0*			*67.0-138*		*02/25/2019 15:26*	WG1241792
(S) 4-Bromofluorobenzene	*94.5*			*67.0-138*		*03/02/2019 02:45*	WG1244113
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*02/25/2019 15:26*	WG1241792
(S) 1,2-Dichloroethane-d4	*87.0*			*70.0-130*		*03/02/2019 02:45*	WG1244113

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.9		1	02/27/2019 16:21	WG1242107

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0275	1	02/25/2019 15:46	WG1241792
Acrylonitrile	U		0.00209	0.0138	1	02/25/2019 15:46	WG1241792
Benzene	U		0.000440	0.00110	1	02/25/2019 15:46	WG1241792
Bromobenzene	U		0.00116	0.0138	1	02/25/2019 15:46	WG1241792
Bromodichloromethane	U		0.000867	0.00275	1	02/25/2019 15:46	WG1241792
Bromochloromethane	U		0.00124	0.00550	1	02/25/2019 15:46	WG1241792
Bromoform	U		0.00658	0.0275	1	03/02/2019 03:08	WG1244113
Bromomethane	U	~~J4~~	0.00407	0.0138	1	02/25/2019 15:46	WG1241792
n-Butylbenzene	U		0.00422	0.0138	1	02/25/2019 15:46	WG1241792
sec-Butylbenzene	U		0.00278	0.0138	1	02/25/2019 15:46	WG1241792
tert-Butylbenzene	U		0.00171	0.00550	1	02/25/2019 15:46	WG1241792
Carbon disulfide	U		0.00447	0.0138	1	02/25/2019 15:46	WG1241792
Carbon tetrachloride	U		0.00119	0.00550	1	02/25/2019 15:46	WG1241792
Chlorobenzene	U		0.000630	0.00275	1	02/25/2019 15:46	WG1241792
Chlorodibromomethane	U		0.000495	0.00275	1	02/25/2019 15:46	WG1241792
Chloroethane	U		0.00119	0.00550	1	02/25/2019 15:46	WG1241792
Chloroform	U		0.000457	0.00275	1	02/25/2019 15:46	WG1241792
Chloromethane	U		0.00153	0.0138	1	02/25/2019 15:46	WG1241792
2-Chlorotoluene	U		0.00101	0.00275	1	02/25/2019 15:46	WG1241792
4-Chlorotoluene	U		0.00124	0.00550	1	02/25/2019 15:46	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00561	0.0275	1	02/25/2019 15:46	WG1241792
1,2-Dibromoethane	U		0.000578	0.00275	1	02/25/2019 15:46	WG1241792
Dibromomethane	U		0.00110	0.00550	1	02/25/2019 15:46	WG1241792
1,2-Dichlorobenzene	U		0.00160	0.00550	1	02/25/2019 15:46	WG1241792
1,3-Dichlorobenzene	U		0.00187	0.00550	1	02/25/2019 15:46	WG1241792
1,4-Dichlorobenzene	U		0.00217	0.00550	1	02/25/2019 15:46	WG1241792
Dichlorodifluoromethane	U		0.000900	0.00275	1	02/25/2019 15:46	WG1241792
1,1-Dichloroethane	U		0.000633	0.00275	1	02/25/2019 15:46	WG1241792
1,2-Dichloroethane	U		0.000523	0.00275	1	03/02/2019 03:08	WG1244113
1,1-Dichloroethene	0.00191 J	J	0.000550	0.00275	1	02/25/2019 15:46	WG1241792
cis-1,2-Dichloroethene	0.552		0.000759	0.00275	1	02/25/2019 15:46	WG1241792
trans-1,2-Dichloroethene	0.00224 J	J	0.00157	0.00550	1	02/25/2019 15:46	WG1241792
1,2-Dichloropropane	U		0.00140	0.00550	1	02/25/2019 15:46	WG1241792
1,1-Dichloropropene	U		0.000770	0.00275	1	02/25/2019 15:46	WG1241792
1,3-Dichloropropane	U		0.00193	0.00550	1	02/25/2019 15:46	WG1241792
cis-1,3-Dichloropropene	U		0.000746	0.00275	1	02/25/2019 15:46	WG1241792
trans-1,3-Dichloropropene	U		0.00168	0.00550	1	02/25/2019 15:46	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00154	0.00550	1	02/25/2019 15:46	WG1241792
2,2-Dichloropropane	U		0.000872	0.00275	1	02/25/2019 15:46	WG1241792
Di-isopropyl ether	U		0.000385	0.00110	1	02/25/2019 15:46	WG1241792
Ethylbenzene	U		0.000583	0.00275	1	02/25/2019 15:46	WG1241792
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	02/25/2019 15:46	WG1241792
2-Hexanone	U		0.0110	0.0275	1	02/25/2019 15:46	WG1241792
n-Hexane	0.00182 U	B J	0.00117	0.00550	1	02/25/2019 15:46	WG1241792
Iodomethane	U		0.00666	0.0138	1	02/25/2019 15:46	WG1241792
Isopropylbenzene	U		0.000949	0.00275	1	02/25/2019 15:46	WG1241792
p-Isopropyltoluene	U		0.00256	0.00550	1	02/25/2019 15:46	WG1241792
2-Butanone (MEK)	U		0.0138	0.0275	1	02/25/2019 15:46	WG1241792
Methylene Chloride	U		0.00730	0.0275	1	02/25/2019 15:46	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	02/25/2019 15:46	WG1241792

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000325	0.00110	1	02/25/2019 15:46	WG1241792
Naphthalene	U		0.00343	0.0138	1	02/25/2019 15:46	WG1241792
n-Propylbenzene	U		0.00130	0.00550	1	02/25/2019 15:46	WG1241792
Styrene	U UJ	J4	0.00300	0.0138	1	02/25/2019 15:46	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000550	0.00275	1	02/25/2019 15:46	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	02/25/2019 15:46	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000743	0.00275	1	02/25/2019 15:46	WG1241792
Tetrachloroethene	0.285		0.000770	0.00275	1	02/25/2019 15:46	WG1241792
Toluene	0.00216 J	J	0.00138	0.00550	1	02/25/2019 15:46	WG1241792
1,2,3-Trichlorobenzene	U		0.000688	0.00275	1	02/25/2019 15:46	WG1241792
1,2,4-Trichlorobenzene	U		0.00530	0.0138	1	02/25/2019 15:46	WG1241792
1,1,1-Trichloroethane	U		0.000303	0.00275	1	02/25/2019 15:46	WG1241792
1,1,2-Trichloroethane	U		0.000971	0.00275	1	02/25/2019 15:46	WG1241792
Trichloroethene	0.264		0.000440	0.00110	1	02/25/2019 15:46	WG1241792
Trichlorofluoromethane	U		0.000550	0.00275	1	02/25/2019 15:46	WG1241792
1,2,3-Trichloropropane	U		0.00561	0.0138	1	02/25/2019 15:46	WG1241792
1,2,4-Trimethylbenzene	U		0.00128	0.00550	1	02/25/2019 15:46	WG1241792
1,2,3-Trimethylbenzene	U		0.00127	0.00550	1	02/25/2019 15:46	WG1241792
1,3,5-Trimethylbenzene	U		0.00119	0.00550	1	02/25/2019 15:46	WG1241792
Vinyl acetate	U		0.00387	0.0138	1	02/25/2019 15:46	WG1241792
Vinyl chloride	U		0.000751	0.00275	1	02/25/2019 15:46	WG1241792
Xylenes, Total	U		0.00526	0.00715	1	02/25/2019 15:46	WG1241792
(S) Toluene-d8	*102*			*75.0-131*		*02/25/2019 15:46*	WG1241792
(S) Toluene-d8	*103*			*75.0-131*		*03/02/2019 03:08*	WG1244113
(S) 4-Bromofluorobenzene	*89.1*			*67.0-138*		*02/25/2019 15:46*	WG1241792
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*03/02/2019 03:08*	WG1244113
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*02/25/2019 15:46*	WG1241792
(S) 1,2-Dichloroethane-d4	*87.5*			*70.0-130*		*03/02/2019 03:08*	WG1244113

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	02/27/2019 16:21	WG1242107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0173	0.0315	1	02/25/2019 16:06	WG1241792
Acrylonitrile	U		0.00240	0.0158	1	02/25/2019 16:06	WG1241792
Benzene	0.00843		0.000504	0.00126	1	02/25/2019 16:06	WG1241792
Bromobenzene	U		0.00132	0.0158	1	02/25/2019 16:06	WG1241792
Bromodichloromethane	U		0.000994	0.00315	1	02/25/2019 16:06	WG1241792
Bromochloromethane	U		0.00142	0.00630	1	02/25/2019 16:06	WG1241792
Bromoform	U		0.00754	0.0315	1	03/02/2019 03:30	WG1244113
Bromomethane	U	~~J4~~	0.00466	0.0158	1	02/25/2019 16:06	WG1241792
n-Butylbenzene	U		0.00484	0.0158	1	02/25/2019 16:06	WG1241792
sec-Butylbenzene	U		0.00319	0.0158	1	02/25/2019 16:06	WG1241792
tert-Butylbenzene	U		0.00195	0.00630	1	02/25/2019 16:06	WG1241792
Carbon disulfide	U		0.00512	0.0158	1	02/25/2019 16:06	WG1241792
Carbon tetrachloride	U		0.00136	0.00630	1	02/25/2019 16:06	WG1241792
Chlorobenzene	U		0.000722	0.00315	1	02/25/2019 16:06	WG1241792
Chlorodibromomethane	U		0.000567	0.00315	1	02/25/2019 16:06	WG1241792
Chloroethane	U		0.00136	0.00630	1	02/25/2019 16:06	WG1241792
Chloroform	U		0.000523	0.00315	1	02/25/2019 16:06	WG1241792
Chloromethane	U		0.00175	0.0158	1	02/25/2019 16:06	WG1241792
2-Chlorotoluene	U		0.00116	0.00315	1	02/25/2019 16:06	WG1241792
4-Chlorotoluene	U		0.00142	0.00630	1	02/25/2019 16:06	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00643	0.0315	1	02/25/2019 16:06	WG1241792
1,2-Dibromoethane	U		0.000662	0.00315	1	02/25/2019 16:06	WG1241792
Dibromomethane	U		0.00126	0.00630	1	02/25/2019 16:06	WG1241792
1,2-Dichlorobenzene	U		0.00183	0.00630	1	02/25/2019 16:06	WG1241792
1,3-Dichlorobenzene	U		0.00214	0.00630	1	02/25/2019 16:06	WG1241792
1,4-Dichlorobenzene	U		0.00248	0.00630	1	02/25/2019 16:06	WG1241792
Dichlorodifluoromethane	U		0.00103	0.00315	1	02/25/2019 16:06	WG1241792
1,1-Dichloroethane	U		0.000725	0.00315	1	02/25/2019 16:06	WG1241792
1,2-Dichloroethane	U		0.000599	0.00315	1	03/02/2019 03:30	WG1244113
1,1-Dichloroethene	U		0.000630	0.00315	1	02/25/2019 16:06	WG1241792
cis-1,2-Dichloroethene	0.00105 J	J	0.000870	0.00315	1	02/25/2019 16:06	WG1241792
trans-1,2-Dichloroethene	U		0.00180	0.00630	1	02/25/2019 16:06	WG1241792
1,2-Dichloropropane	U		0.00160	0.00630	1	02/25/2019 16:06	WG1241792
1,1-Dichloropropene	U		0.000883	0.00315	1	02/25/2019 16:06	WG1241792
1,3-Dichloropropane	U		0.00221	0.00630	1	02/25/2019 16:06	WG1241792
cis-1,3-Dichloropropene	U		0.000855	0.00315	1	02/25/2019 16:06	WG1241792
trans-1,3-Dichloropropene	U		0.00193	0.00630	1	02/25/2019 16:06	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00177	0.00630	1	02/25/2019 16:06	WG1241792
2,2-Dichloropropane	U		0.00100	0.00315	1	02/25/2019 16:06	WG1241792
Di-isopropyl ether	U		0.000441	0.00126	1	02/25/2019 16:06	WG1241792
Ethylbenzene	0.00170 J	J	0.000668	0.00315	1	02/25/2019 16:06	WG1241792
Hexachloro-1,3-butadiene	U		0.0160	0.0315	1	02/25/2019 16:06	WG1241792
2-Hexanone	U		0.0126	0.0315	1	02/25/2019 16:06	WG1241792
n-Hexane	0.00404 U	B J	0.00134	0.00630	1	02/25/2019 16:06	WG1241792
Iodomethane	U		0.00763	0.0158	1	02/25/2019 16:06	WG1241792
Isopropylbenzene	U		0.00109	0.00315	1	02/25/2019 16:06	WG1241792
p-Isopropyltoluene	0.00695		0.00294	0.00630	1	02/25/2019 16:06	WG1241792
2-Butanone (MEK)	U		0.0158	0.0315	1	02/25/2019 16:06	WG1241792
Methylene Chloride	U		0.00837	0.0315	1	02/25/2019 16:06	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0126	0.0315	1	02/25/2019 16:06	WG1241792

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	UJ J0	0.000372	0.00126	1	02/25/2019 16:06	WG1241792
Naphthalene	0.0173		0.00393	0.0158	1	02/25/2019 16:06	WG1241792
n-Propylbenzene	U		0.00149	0.00630	1	02/25/2019 16:06	WG1241792
Styrene	U	UJ J4	0.00344	0.0158	1	02/25/2019 16:06	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000630	0.00315	1	02/25/2019 16:06	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000492	0.00315	1	02/25/2019 16:06	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000851	0.00315	1	02/25/2019 16:06	WG1241792
Tetrachloroethene	0.0321		0.000883	0.00315	1	02/25/2019 16:06	WG1241792
Toluene	0.00787		0.00158	0.00630	1	02/25/2019 16:06	WG1241792
1,2,3-Trichlorobenzene	U		0.000788	0.00315	1	02/25/2019 16:06	WG1241792
1,2,4-Trichlorobenzene	U		0.00608	0.0158	1	02/25/2019 16:06	WG1241792
1,1,1-Trichloroethane	U		0.000347	0.00315	1	02/25/2019 16:06	WG1241792
1,1,2-Trichloroethane	U		0.00111	0.00315	1	02/25/2019 16:06	WG1241792
Trichloroethene	U		0.000504	0.00126	1	02/25/2019 16:06	WG1241792
Trichlorofluoromethane	U		0.000630	0.00315	1	02/25/2019 16:06	WG1241792
1,2,3-Trichloropropane	U		0.00643	0.0158	1	02/25/2019 16:06	WG1241792
1,2,4-Trimethylbenzene	0.00447	J J	0.00146	0.00630	1	02/25/2019 16:06	WG1241792
1,2,3-Trimethylbenzene	0.00390	J J	0.00145	0.00630	1	02/25/2019 16:06	WG1241792
1,3,5-Trimethylbenzene	0.00201	J J	0.00136	0.00630	1	02/25/2019 16:06	WG1241792
Vinyl acetate	U		0.00444	0.0158	1	02/25/2019 16:06	WG1241792
Vinyl chloride	U		0.000861	0.00315	1	02/25/2019 16:06	WG1241792
Xylenes, Total	0.00656	J J	0.00603	0.00820	1	02/25/2019 16:06	WG1241792
(S) Toluene-d8	*99.9*			*75.0-131*		*02/25/2019 16:06*	WG1241792
(S) Toluene-d8	*101*			*75.0-131*		*03/02/2019 03:30*	WG1244113
(S) 4-Bromofluorobenzene	*89.7*			*67.0-138*		*02/25/2019 16:06*	WG1241792
(S) 4-Bromofluorobenzene	*94.5*			*67.0-138*		*03/02/2019 03:30*	WG1244113
(S) 1,2-Dichloroethane-d4	*94.2*			*70.0-130*		*02/25/2019 16:06*	WG1241792
(S) 1,2-Dichloroethane-d4	*90.2*			*70.0-130*		*03/02/2019 03:30*	WG1244113

JC 3/20/19

B10D10-20

Collected date/time: 02/21/19 14:45

SAMPLE RESULTS - 11

L1072936

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.8		1	02/27/2019 16:21	WG1242107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0165	0.0302	1	02/25/2019 16:25	WG1241792
Acrylonitrile	U		0.00229	0.0151	1	02/25/2019 16:25	WG1241792
Benzene	U		0.000483	0.00121	1	02/25/2019 16:25	WG1241792
Bromobenzene	U		0.00127	0.0151	1	02/25/2019 16:25	WG1241792
Bromodichloromethane	U		0.000952	0.00302	1	02/25/2019 16:25	WG1241792
Bromochloromethane	U		0.00136	0.00604	1	02/25/2019 16:25	WG1241792
Bromoform	U		0.00722	0.0302	1	03/02/2019 03:52	WG1244113
Bromomethane	U	~~J4~~	0.00447	0.0151	1	02/25/2019 16:25	WG1241792
n-Butylbenzene	U		0.00464	0.0151	1	02/25/2019 16:25	WG1241792
sec-Butylbenzene	U		0.00306	0.0151	1	02/25/2019 16:25	WG1241792
tert-Butylbenzene	U		0.00187	0.00604	1	02/25/2019 16:25	WG1241792
Carbon disulfide	U		0.00490	0.0151	1	02/25/2019 16:25	WG1241792
Carbon tetrachloride	U		0.00130	0.00604	1	02/25/2019 16:25	WG1241792
Chlorobenzene	U		0.000692	0.00302	1	02/25/2019 16:25	WG1241792
Chlorodibromomethane	U		0.000544	0.00302	1	02/25/2019 16:25	WG1241792
Chloroethane	U		0.00130	0.00604	1	02/25/2019 16:25	WG1241792
Chloroform	U		0.000501	0.00302	1	02/25/2019 16:25	WG1241792
Chloromethane	U		0.00168	0.0151	1	02/25/2019 16:25	WG1241792
2-Chlorotoluene	U		0.00111	0.00302	1	02/25/2019 16:25	WG1241792
4-Chlorotoluene	U		0.00136	0.00604	1	02/25/2019 16:25	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00616	0.0302	1	02/25/2019 16:25	WG1241792
1,2-Dibromoethane	U		0.000634	0.00302	1	02/25/2019 16:25	WG1241792
Dibromomethane	U		0.00121	0.00604	1	02/25/2019 16:25	WG1241792
1,2-Dichlorobenzene	U		0.00175	0.00604	1	02/25/2019 16:25	WG1241792
1,3-Dichlorobenzene	U		0.00205	0.00604	1	02/25/2019 16:25	WG1241792
1,4-Dichlorobenzene	U		0.00238	0.00604	1	02/25/2019 16:25	WG1241792
Dichlorodifluoromethane	U		0.000988	0.00302	1	02/25/2019 16:25	WG1241792
1,1-Dichloroethane	U		0.000694	0.00302	1	02/25/2019 16:25	WG1241792
1,2-Dichloroethane	U		0.000574	0.00302	1	03/02/2019 03:52	WG1244113
1,1-Dichloroethene	U		0.000604	0.00302	1	02/25/2019 16:25	WG1241792
cis-1,2-Dichloroethene	0.339		0.000833	0.00302	1	02/25/2019 16:25	WG1241792
trans-1,2-Dichloroethene	0.00334 J	J	0.00173	0.00604	1	02/25/2019 16:25	WG1241792
1,2-Dichloropropane	U		0.00153	0.00604	1	02/25/2019 16:25	WG1241792
1,1-Dichloropropene	U		0.000845	0.00302	1	02/25/2019 16:25	WG1241792
1,3-Dichloropropane	U		0.00211	0.00604	1	02/25/2019 16:25	WG1241792
cis-1,3-Dichloropropene	U		0.000819	0.00302	1	02/25/2019 16:25	WG1241792
trans-1,3-Dichloropropene	U		0.00185	0.00604	1	02/25/2019 16:25	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00169	0.00604	1	02/25/2019 16:25	WG1241792
2,2-Dichloropropane	U		0.000958	0.00302	1	02/25/2019 16:25	WG1241792
Di-isopropyl ether	U		0.000423	0.00121	1	02/25/2019 16:25	WG1241792
Ethylbenzene	U		0.000640	0.00302	1	02/25/2019 16:25	WG1241792
Hexachloro-1,3-butadiene	U		0.0153	0.0302	1	02/25/2019 16:25	WG1241792
2-Hexanone	U		0.0121	0.0302	1	02/25/2019 16:25	WG1241792
n-Hexane	0.00135 U	B J	0.00128	0.00604	1	02/25/2019 16:25	WG1241792
Iodomethane	U		0.00731	0.0151	1	02/25/2019 16:25	WG1241792
Isopropylbenzene	U		0.00104	0.00302	1	02/25/2019 16:25	WG1241792
p-Isopropyltoluene	U		0.00281	0.00604	1	02/25/2019 16:25	WG1241792
2-Butanone (MEK)	U		0.0151	0.0302	1	02/25/2019 16:25	WG1241792
Methylene Chloride	U		0.00802	0.0302	1	02/25/2019 16:25	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0302	1	02/25/2019 16:25	WG1241792

JC 3/20/19

B10D10-20

Collected date/time: 02/21/19 14:45

SAMPLE RESULTS - 11

L1072936

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U UJ	J0	0.000356	0.00121	1	02/25/2019 16:25	WG1241792
Naphthalene	U		0.00377	0.0151	1	02/25/2019 16:25	WG1241792
n-Propylbenzene	U		0.00143	0.00604	1	02/25/2019 16:25	WG1241792
Styrene	U UJ	J4	0.00330	0.0151	1	02/25/2019 16:25	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000604	0.00302	1	02/25/2019 16:25	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000471	0.00302	1	02/25/2019 16:25	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000815	0.00302	1	02/25/2019 16:25	WG1241792
Tetrachloroethene	0.00726		0.000845	0.00302	1	02/25/2019 16:25	WG1241792
Toluene	U		0.00151	0.00604	1	02/25/2019 16:25	WG1241792
1,2,3-Trichlorobenzene	U		0.000755	0.00302	1	02/25/2019 16:25	WG1241792
1,2,4-Trichlorobenzene	U		0.00582	0.0151	1	02/25/2019 16:25	WG1241792
1,1,1-Trichloroethane	U		0.000332	0.00302	1	02/25/2019 16:25	WG1241792
1,1,2-Trichloroethane	U		0.00107	0.00302	1	02/25/2019 16:25	WG1241792
Trichloroethene	0.00164		0.000483	0.00121	1	02/25/2019 16:25	WG1241792
Trichlorofluoromethane	U		0.000604	0.00302	1	02/25/2019 16:25	WG1241792
1,2,3-Trichloropropane	U		0.00616	0.0151	1	02/25/2019 16:25	WG1241792
1,2,4-Trimethylbenzene	U		0.00140	0.00604	1	02/25/2019 16:25	WG1241792
1,2,3-Trimethylbenzene	U		0.00139	0.00604	1	02/25/2019 16:25	WG1241792
1,3,5-Trimethylbenzene	U		0.00130	0.00604	1	02/25/2019 16:25	WG1241792
Vinyl acetate	U		0.00425	0.0151	1	02/25/2019 16:25	WG1241792
Vinyl chloride	U		0.000825	0.00302	1	02/25/2019 16:25	WG1241792
Xylenes, Total	U		0.00577	0.00785	1	02/25/2019 16:25	WG1241792
(S) Toluene-d8	*97.2*			*75.0-131*		*02/25/2019 16:25*	WG1241792
(S) Toluene-d8	*104*			*75.0-131*		*03/02/2019 03:52*	WG1244113
(S) 4-Bromofluorobenzene	*91.3*			*67.0-138*		*02/25/2019 16:25*	WG1241792
(S) 4-Bromofluorobenzene	*94.1*			*67.0-138*		*03/02/2019 03:52*	WG1244113
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*02/25/2019 16:25*	WG1241792
(S) 1,2-Dichloroethane-d4	*85.4*			*70.0-130*		*03/02/2019 03:52*	WG1244113

JC 3/20/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	02/27/2019 16:04	WG1242109

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0155	0.0283	1	02/25/2019 16:45	WG1241792
Acrylonitrile	U		0.00215	0.0141	1	02/25/2019 16:45	WG1241792
Benzene	U		0.000452	0.00113	1	02/25/2019 16:45	WG1241792
Bromobenzene	U		0.00119	0.0141	1	02/25/2019 16:45	WG1241792
Bromodichloromethane	U		0.000890	0.00283	1	02/25/2019 16:45	WG1241792
Bromochloromethane	U		0.00128	0.00565	1	02/25/2019 16:45	WG1241792
Bromoform	U		0.0676	0.283	10	03/02/2019 06:06	WG1244113
Bromomethane	U	~~J4~~	0.00418	0.0141	1	02/25/2019 16:45	WG1241792
n-Butylbenzene	U		0.00434	0.0141	1	02/25/2019 16:45	WG1241792
sec-Butylbenzene	U		0.00286	0.0141	1	02/25/2019 16:45	WG1241792
tert-Butylbenzene	U		0.00175	0.00565	1	02/25/2019 16:45	WG1241792
Carbon disulfide	U		0.00459	0.0141	1	02/25/2019 16:45	WG1241792
Carbon tetrachloride	U		0.00122	0.00565	1	02/25/2019 16:45	WG1241792
Chlorobenzene	U		0.000647	0.00283	1	02/25/2019 16:45	WG1241792
Chlorodibromomethane	U		0.000509	0.00283	1	02/25/2019 16:45	WG1241792
Chloroethane	U		0.00122	0.00565	1	02/25/2019 16:45	WG1241792
Chloroform	U		0.000469	0.00283	1	02/25/2019 16:45	WG1241792
Chloromethane	U		0.00157	0.0141	1	02/25/2019 16:45	WG1241792
2-Chlorotoluene	U		0.00104	0.00283	1	02/25/2019 16:45	WG1241792
4-Chlorotoluene	U		0.00128	0.00565	1	02/25/2019 16:45	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0283	1	02/25/2019 16:45	WG1241792
1,2-Dibromoethane	U		0.000593	0.00283	1	02/25/2019 16:45	WG1241792
Dibromomethane	U		0.00113	0.00565	1	02/25/2019 16:45	WG1241792
1,2-Dichlorobenzene	U		0.00164	0.00565	1	02/25/2019 16:45	WG1241792
1,3-Dichlorobenzene	U		0.00192	0.00565	1	02/25/2019 16:45	WG1241792
1,4-Dichlorobenzene	U		0.00223	0.00565	1	02/25/2019 16:45	WG1241792
Dichlorodifluoromethane	U		0.000924	0.00283	1	02/25/2019 16:45	WG1241792
1,1-Dichloroethane	U		0.000650	0.00283	1	02/25/2019 16:45	WG1241792
1,2-Dichloroethane	U		0.00537	0.0283	10	03/02/2019 06:06	WG1244113
1,1-Dichloroethene	0.00219 J	J	0.000565	0.00283	1	02/25/2019 16:45	WG1241792
cis-1,2-Dichloroethene	0.196		0.000780	0.00283	1	02/25/2019 16:45	WG1241792
trans-1,2-Dichloroethene	0.00652		0.00162	0.00565	1	02/25/2019 16:45	WG1241792
1,2-Dichloropropane	U		0.00144	0.00565	1	02/25/2019 16:45	WG1241792
1,1-Dichloropropene	U		0.000791	0.00283	1	02/25/2019 16:45	WG1241792
1,3-Dichloropropane	U		0.00198	0.00565	1	02/25/2019 16:45	WG1241792
cis-1,3-Dichloropropene	U		0.000766	0.00283	1	02/25/2019 16:45	WG1241792
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	02/25/2019 16:45	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	02/25/2019 16:45	WG1241792
2,2-Dichloropropane	U		0.000896	0.00283	1	02/25/2019 16:45	WG1241792
Di-isopropyl ether	U		0.000396	0.00113	1	02/25/2019 16:45	WG1241792
Ethylbenzene	U		0.000599	0.00283	1	02/25/2019 16:45	WG1241792
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	02/25/2019 16:45	WG1241792
2-Hexanone	U		0.0113	0.0283	1	02/25/2019 16:45	WG1241792
n-Hexane	U		0.00120	0.00565	1	02/25/2019 16:45	WG1241792
Iodomethane	U		0.00684	0.0141	1	02/25/2019 16:45	WG1241792
Isopropylbenzene	U		0.000975	0.00283	1	02/25/2019 16:45	WG1241792
p-Isopropyltoluene	U		0.00263	0.00565	1	02/25/2019 16:45	WG1241792
2-Butanone (MEK)	U		0.0141	0.0283	1	02/25/2019 16:45	WG1241792
Methylene Chloride	U		0.00750	0.0283	1	02/25/2019 16:45	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	02/25/2019 16:45	WG1241792

JC 3/20/19

B10D10-25

Collected date/time: 02/21/19 14:50

SAMPLE RESULTS - 12

L1072936

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	UJ J0	0.000333	0.00113	1	02/25/2019 16:45	WG1241792
Naphthalene	U		0.00353	0.0141	1	02/25/2019 16:45	WG1241792
n-Propylbenzene	U		0.00133	0.00565	1	02/25/2019 16:45	WG1241792
Styrene	U	UJ J4	0.00308	0.0141	1	02/25/2019 16:45	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000565	0.00283	1	02/25/2019 16:45	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	02/25/2019 16:45	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00283	1	02/25/2019 16:45	WG1241792
Tetrachloroethene	1.89		0.00791	0.0283	10	03/02/2019 06:06	WG1244113
Toluene	0.00185	J J	0.00141	0.00565	1	02/25/2019 16:45	WG1241792
1,2,3-Trichlorobenzene	U		0.000706	0.00283	1	02/25/2019 16:45	WG1241792
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	02/25/2019 16:45	WG1241792
1,1,1-Trichloroethane	U		0.000311	0.00283	1	02/25/2019 16:45	WG1241792
1,1,2-Trichloroethane	U		0.000998	0.00283	1	02/25/2019 16:45	WG1241792
Trichloroethene	0.419		0.000452	0.00113	1	02/25/2019 16:45	WG1241792
Trichlorofluoromethane	U		0.000565	0.00283	1	02/25/2019 16:45	WG1241792
1,2,3-Trichloropropane	U		0.00576	0.0141	1	02/25/2019 16:45	WG1241792
1,2,4-Trimethylbenzene	U		0.00131	0.00565	1	02/25/2019 16:45	WG1241792
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	02/25/2019 16:45	WG1241792
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	02/25/2019 16:45	WG1241792
Vinyl acetate	U		0.00398	0.0141	1	02/25/2019 16:45	WG1241792
Vinyl chloride	U		0.000772	0.00283	1	02/25/2019 16:45	WG1241792
Xylenes, Total	U		0.00540	0.00735	1	02/25/2019 16:45	WG1241792
(S) Toluene-d8	*103*			*75.0-131*		*02/25/2019 16:45*	WG1241792
(S) Toluene-d8	*121*			*75.0-131*		*03/02/2019 06:06*	WG1244113
(S) 4-Bromofluorobenzene	*87.1*			*67.0-138*		*02/25/2019 16:45*	WG1241792
(S) 4-Bromofluorobenzene	*90.6*			*67.0-138*		*03/02/2019 06:06*	WG1244113
(S) 1,2-Dichloroethane-d4	*97.9*			*70.0-130*		*02/25/2019 16:45*	WG1241792
(S) 1,2-Dichloroethane-d4	*93.6*			*70.0-130*		*03/02/2019 06:06*	WG1244113

Sample Narrative:

L1072936-12 WG1241792, WG1244113: Not all compounds reportable at lower dilution,

L1072936-12 WG1241792, WG1244113: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

JC 3/20/19

B10D10-30
Collected date/time: 02/21/19 14:53

SAMPLE RESULTS - 13

L1072936

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.1		1	02/27/2019 16:04	WG1242109

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0154	0.0281	1	02/25/2019 17:05	WG1241792
Acrylonitrile	U		0.00213	0.0140	1	02/25/2019 17:05	WG1241792
Benzene	U		0.000449	0.00112	1	02/25/2019 17:05	WG1241792
Bromobenzene	U		0.00118	0.0140	1	02/25/2019 17:05	WG1241792
Bromodichloromethane	U		0.000885	0.00281	1	02/25/2019 17:05	WG1241792
Bromochloromethane	U		0.00127	0.00561	1	02/25/2019 17:05	WG1241792
Bromoform	U		0.135	0.561	20	03/02/2019 06:28	WG1244113
Bromomethane	U	~~J4~~	0.00415	0.0140	1	02/25/2019 17:05	WG1241792
n-Butylbenzene	U		0.00431	0.0140	1	02/25/2019 17:05	WG1241792
sec-Butylbenzene	U		0.00284	0.0140	1	02/25/2019 17:05	WG1241792
tert-Butylbenzene	U		0.00174	0.00561	1	02/25/2019 17:05	WG1241792
Carbon disulfide	U		0.00456	0.0140	1	02/25/2019 17:05	WG1241792
Carbon tetrachloride	U		0.00121	0.00561	1	02/25/2019 17:05	WG1241792
Chlorobenzene	U		0.000643	0.00281	1	02/25/2019 17:05	WG1241792
Chlorodibromomethane	U		0.000505	0.00281	1	02/25/2019 17:05	WG1241792
Chloroethane	U		0.00121	0.00561	1	02/25/2019 17:05	WG1241792
Chloroform	U		0.000466	0.00281	1	02/25/2019 17:05	WG1241792
Chloromethane	U		0.00156	0.0140	1	02/25/2019 17:05	WG1241792
2-Chlorotoluene	U		0.00103	0.00281	1	02/25/2019 17:05	WG1241792
4-Chlorotoluene	U		0.00127	0.00561	1	02/25/2019 17:05	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	02/25/2019 17:05	WG1241792
1,2-Dibromoethane	U		0.000590	0.00281	1	02/25/2019 17:05	WG1241792
Dibromomethane	U		0.00112	0.00561	1	02/25/2019 17:05	WG1241792
1,2-Dichlorobenzene	U		0.00163	0.00561	1	02/25/2019 17:05	WG1241792
1,3-Dichlorobenzene	U		0.00191	0.00561	1	02/25/2019 17:05	WG1241792
1,4-Dichlorobenzene	U		0.00221	0.00561	1	02/25/2019 17:05	WG1241792
Dichlorodifluoromethane	U		0.000919	0.00281	1	02/25/2019 17:05	WG1241792
1,1-Dichloroethane	U		0.000646	0.00281	1	02/25/2019 17:05	WG1241792
1,2-Dichloroethane	U		0.0107	0.0561	20	03/02/2019 06:28	WG1244113
1,1-Dichloroethene	0.00332		0.000561	0.00281	1	02/25/2019 17:05	WG1241792
cis-1,2-Dichloroethene	0.409		0.000775	0.00281	1	02/25/2019 17:05	WG1241792
trans-1,2-Dichloroethene	0.00837		0.00161	0.00561	1	02/25/2019 17:05	WG1241792
1,2-Dichloropropane	U		0.00143	0.00561	1	02/25/2019 17:05	WG1241792
1,1-Dichloropropene	U		0.000786	0.00281	1	02/25/2019 17:05	WG1241792
1,3-Dichloropropane	U		0.00197	0.00561	1	02/25/2019 17:05	WG1241792
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	02/25/2019 17:05	WG1241792
trans-1,3-Dichloropropene	U		0.00172	0.00561	1	02/25/2019 17:05	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00157	0.00561	1	02/25/2019 17:05	WG1241792
2,2-Dichloropropane	U		0.000890	0.00281	1	02/25/2019 17:05	WG1241792
Di-isopropyl ether	U		0.000393	0.00112	1	02/25/2019 17:05	WG1241792
Ethylbenzene	U		0.000595	0.00281	1	02/25/2019 17:05	WG1241792
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	02/25/2019 17:05	WG1241792
2-Hexanone	U		0.0112	0.0281	1	02/25/2019 17:05	WG1241792
n-Hexane	0.00164 U	B J	0.00119	0.00561	1	02/25/2019 17:05	WG1241792
Iodomethane	U		0.00679	0.0140	1	02/25/2019 17:05	WG1241792
Isopropylbenzene	U		0.000969	0.00281	1	02/25/2019 17:05	WG1241792
p-Isopropyltoluene	U		0.00262	0.00561	1	02/25/2019 17:05	WG1241792
2-Butanone (MEK)	U		0.0140	0.0281	1	02/25/2019 17:05	WG1241792
Methylene Chloride	U		0.00746	0.0281	1	02/25/2019 17:05	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	02/25/2019 17:05	WG1241792

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	UJ J0	0.000331	0.00112	1	02/25/2019 17:05	WG1241792
Naphthalene	U		0.00350	0.0140	1	02/25/2019 17:05	WG1241792
n-Propylbenzene	U		0.00132	0.00561	1	02/25/2019 17:05	WG1241792
Styrene	U	UJ J4	0.00307	0.0140	1	02/25/2019 17:05	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000561	0.00281	1	02/25/2019 17:05	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	02/25/2019 17:05	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	02/25/2019 17:05	WG1241792
Tetrachloroethene	1.03		0.0157	0.0561	20	03/02/2019 06:28	WG1244113
Toluene	U		0.00140	0.00561	1	02/25/2019 17:05	WG1241792
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	02/25/2019 17:05	WG1241792
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	02/25/2019 17:05	WG1241792
1,1,1-Trichloroethane	U		0.000309	0.00281	1	02/25/2019 17:05	WG1241792
1,1,2-Trichloroethane	U		0.000991	0.00281	1	02/25/2019 17:05	WG1241792
Trichloroethene	0.603		0.000449	0.00112	1	02/25/2019 17:05	WG1241792
Trichlorofluoromethane	U		0.000561	0.00281	1	02/25/2019 17:05	WG1241792
1,2,3-Trichloropropane	U		0.00573	0.0140	1	02/25/2019 17:05	WG1241792
1,2,4-Trimethylbenzene	U		0.00130	0.00561	1	02/25/2019 17:05	WG1241792
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	02/25/2019 17:05	WG1241792
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	02/25/2019 17:05	WG1241792
Vinyl acetate	U		0.00395	0.0140	1	02/25/2019 17:05	WG1241792
Vinyl chloride	U		0.000767	0.00281	1	02/25/2019 17:05	WG1241792
Xylenes, Total	U		0.00537	0.00730	1	02/25/2019 17:05	WG1241792
(S) Toluene-d8	*104*			*75.0-131*		*02/25/2019 17:05*	WG1241792
(S) Toluene-d8	*99.9*			*75.0-131*		*03/02/2019 06:28*	WG1244113
(S) 4-Bromofluorobenzene	*90.2*			*67.0-138*		*02/25/2019 17:05*	WG1241792
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*03/02/2019 06:28*	WG1244113
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*02/25/2019 17:05*	WG1241792
(S) 1,2-Dichloroethane-d4	*92.1*			*70.0-130*		*03/02/2019 06:28*	WG1244113

Sample Narrative:

L1072936-13 WG1241792, WG1244113: Not all compounds reportable at lower dilution,

L1072936-13 WG1241792, WG1244113: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

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B10D10-35

Collected date/time: 02/21/19 14:55

SAMPLE RESULTS - 14

L1072936

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.1		1	02/27/2019 16:04	WG1242109

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0274	1	02/25/2019 17:24	WG1241792
Acrylonitrile	U		0.00209	0.0137	1	02/25/2019 17:24	WG1241792
Benzene	U		0.000439	0.00110	1	02/25/2019 17:24	WG1241792
Bromobenzene	U		0.00115	0.0137	1	02/25/2019 17:24	WG1241792
Bromodichloromethane	U		0.000865	0.00274	1	02/25/2019 17:24	WG1241792
Bromochloromethane	U		0.00124	0.00549	1	02/25/2019 17:24	WG1241792
Bromoform	U		0.00656	0.0274	1	03/02/2019 04:14	WG1244113
Bromomethane	U	~~J4~~	0.00406	0.0137	1	02/25/2019 17:24	WG1241792
n-Butylbenzene	U		0.00422	0.0137	1	02/25/2019 17:24	WG1241792
sec-Butylbenzene	U		0.00278	0.0137	1	02/25/2019 17:24	WG1241792
tert-Butylbenzene	U		0.00170	0.00549	1	02/25/2019 17:24	WG1241792
Carbon disulfide	U		0.00446	0.0137	1	02/25/2019 17:24	WG1241792
Carbon tetrachloride	U		0.00119	0.00549	1	02/25/2019 17:24	WG1241792
Chlorobenzene	U		0.000629	0.00274	1	02/25/2019 17:24	WG1241792
Chlorodibromomethane	U		0.000494	0.00274	1	02/25/2019 17:24	WG1241792
Chloroethane	U		0.00119	0.00549	1	02/25/2019 17:24	WG1241792
Chloroform	U		0.000456	0.00274	1	02/25/2019 17:24	WG1241792
Chloromethane	U		0.00153	0.0137	1	02/25/2019 17:24	WG1241792
2-Chlorotoluene	U		0.00101	0.00274	1	02/25/2019 17:24	WG1241792
4-Chlorotoluene	U		0.00124	0.00549	1	02/25/2019 17:24	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00560	0.0274	1	02/25/2019 17:24	WG1241792
1,2-Dibromoethane	U		0.000576	0.00274	1	02/25/2019 17:24	WG1241792
Dibromomethane	U		0.00110	0.00549	1	02/25/2019 17:24	WG1241792
1,2-Dichlorobenzene	U		0.00159	0.00549	1	02/25/2019 17:24	WG1241792
1,3-Dichlorobenzene	U		0.00187	0.00549	1	02/25/2019 17:24	WG1241792
1,4-Dichlorobenzene	U		0.00216	0.00549	1	02/25/2019 17:24	WG1241792
Dichlorodifluoromethane	U		0.000898	0.00274	1	02/25/2019 17:24	WG1241792
1,1-Dichloroethane	U		0.000631	0.00274	1	02/25/2019 17:24	WG1241792
1,2-Dichloroethane	U		0.000521	0.00274	1	03/02/2019 04:14	WG1244113
1,1-Dichloroethene	0.00269 J	J	0.000549	0.00274	1	02/25/2019 17:24	WG1241792
cis-1,2-Dichloroethene	0.995		0.000757	0.00274	1	02/25/2019 17:24	WG1241792
trans-1,2-Dichloroethene	0.00238 J	J	0.00157	0.00549	1	02/25/2019 17:24	WG1241792
1,2-Dichloropropane	U		0.00139	0.00549	1	02/25/2019 17:24	WG1241792
1,1-Dichloropropene	U		0.000768	0.00274	1	02/25/2019 17:24	WG1241792
1,3-Dichloropropane	U		0.00192	0.00549	1	02/25/2019 17:24	WG1241792
cis-1,3-Dichloropropene	U		0.000744	0.00274	1	02/25/2019 17:24	WG1241792
trans-1,3-Dichloropropene	U		0.00168	0.00549	1	02/25/2019 17:24	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	02/25/2019 17:24	WG1241792
2,2-Dichloropropane	U		0.000871	0.00274	1	02/25/2019 17:24	WG1241792
Di-isopropyl ether	U		0.000384	0.00110	1	02/25/2019 17:24	WG1241792
Ethylbenzene	U		0.000582	0.00274	1	02/25/2019 17:24	WG1241792
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	02/25/2019 17:24	WG1241792
2-Hexanone	U		0.0110	0.0274	1	02/25/2019 17:24	WG1241792
n-Hexane	U		0.00116	0.00549	1	02/25/2019 17:24	WG1241792
Iodomethane	U		0.00664	0.0137	1	02/25/2019 17:24	WG1241792
Isopropylbenzene	U		0.000947	0.00274	1	02/25/2019 17:24	WG1241792
p-Isopropyltoluene	U		0.00256	0.00549	1	02/25/2019 17:24	WG1241792
2-Butanone (MEK)	U		0.0137	0.0274	1	02/25/2019 17:24	WG1241792
Methylene Chloride	U		0.00729	0.0274	1	02/25/2019 17:24	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	02/25/2019 17:24	WG1241792

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	UJ	J0	0.000324	0.00110	1	02/25/2019 17:24	WG1241792
Naphthalene	U			0.00343	0.0137	1	02/25/2019 17:24	WG1241792
n-Propylbenzene	U			0.00130	0.00549	1	02/25/2019 17:24	WG1241792
Styrene	U	UJ	J4	0.00300	0.0137	1	02/25/2019 17:24	WG1241792
1,1,1,2-Tetrachloroethane	U			0.000549	0.00274	1	02/25/2019 17:24	WG1241792
1,1,2,2-Tetrachloroethane	U			0.000428	0.00274	1	02/25/2019 17:24	WG1241792
1,1,2-Trichlorotrifluoroethane	U			0.000741	0.00274	1	02/25/2019 17:24	WG1241792
Tetrachloroethene	0.0809			0.000768	0.00274	1	03/02/2019 04:14	WG1244113
Toluene	0.00154	J	J	0.00137	0.00549	1	02/25/2019 17:24	WG1241792
1,2,3-Trichlorobenzene	U			0.000686	0.00274	1	02/25/2019 17:24	WG1241792
1,2,4-Trichlorobenzene	U			0.00529	0.0137	1	02/25/2019 17:24	WG1241792
1,1,1-Trichloroethane	U			0.000302	0.00274	1	02/25/2019 17:24	WG1241792
1,1,2-Trichloroethane	U			0.000969	0.00274	1	02/25/2019 17:24	WG1241792
Trichloroethene	0.418			0.000439	0.00110	1	02/25/2019 17:24	WG1241792
Trichlorofluoromethane	U			0.000549	0.00274	1	02/25/2019 17:24	WG1241792
1,2,3-Trichloropropane	U			0.00560	0.0137	1	02/25/2019 17:24	WG1241792
1,2,4-Trimethylbenzene	U			0.00127	0.00549	1	02/25/2019 17:24	WG1241792
1,2,3-Trimethylbenzene	U			0.00126	0.00549	1	02/25/2019 17:24	WG1241792
1,3,5-Trimethylbenzene	U			0.00119	0.00549	1	02/25/2019 17:24	WG1241792
Vinyl acetate	U			0.00386	0.0137	1	02/25/2019 17:24	WG1241792
Vinyl chloride	U			0.000750	0.00274	1	02/25/2019 17:24	WG1241792
Xylenes, Total	U			0.00525	0.00714	1	02/25/2019 17:24	WG1241792
(S) Toluene-d8	*103*				*75.0-131*		*02/25/2019 17:24*	WG1241792
(S) Toluene-d8	*126*				*75.0-131*		*03/02/2019 04:14*	WG1244113
(S) 4-Bromofluorobenzene	*88.9*				*67.0-138*		*02/25/2019 17:24*	WG1241792
(S) 4-Bromofluorobenzene	*95.3*				*67.0-138*		*03/02/2019 04:14*	WG1244113
(S) 1,2-Dichloroethane-d4	*104*				*70.0-130*		*02/25/2019 17:24*	WG1241792
(S) 1,2-Dichloroethane-d4	*92.0*				*70.0-130*		*03/02/2019 04:14*	WG1244113

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.6		1	02/27/2019 16:04	WG1242109

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0156	0.0286	1	02/25/2019 17:44	WG1241792
Acrylonitrile	U		0.00217	0.0143	1	02/25/2019 17:44	WG1241792
Benzene	U		0.000457	0.00114	1	02/25/2019 17:44	WG1241792
Bromobenzene	U		0.00120	0.0143	1	02/25/2019 17:44	WG1241792
Bromodichloromethane	U		0.000900	0.00286	1	02/25/2019 17:44	WG1241792
Bromochloromethane	U		0.00129	0.00571	1	02/25/2019 17:44	WG1241792
Bromoform	U		0.00683	0.0286	1	03/02/2019 04:37	WG1244113
Bromomethane	U	~~J4~~	0.00423	0.0143	1	02/25/2019 17:44	WG1241792
n-Butylbenzene	U		0.00439	0.0143	1	02/25/2019 17:44	WG1241792
sec-Butylbenzene	U		0.00289	0.0143	1	02/25/2019 17:44	WG1241792
tert-Butylbenzene	U		0.00177	0.00571	1	02/25/2019 17:44	WG1241792
Carbon disulfide	U		0.00464	0.0143	1	02/25/2019 17:44	WG1241792
Carbon tetrachloride	U		0.00123	0.00571	1	02/25/2019 17:44	WG1241792
Chlorobenzene	U		0.000654	0.00286	1	02/25/2019 17:44	WG1241792
Chlorodibromomethane	U		0.000514	0.00286	1	02/25/2019 17:44	WG1241792
Chloroethane	U		0.00123	0.00571	1	02/25/2019 17:44	WG1241792
Chloroform	U		0.000474	0.00286	1	02/25/2019 17:44	WG1241792
Chloromethane	U		0.00159	0.0143	1	02/25/2019 17:44	WG1241792
2-Chlorotoluene	U		0.00105	0.00286	1	02/25/2019 17:44	WG1241792
4-Chlorotoluene	U		0.00129	0.00571	1	02/25/2019 17:44	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00582	0.0286	1	02/25/2019 17:44	WG1241792
1,2-Dibromoethane	U		0.000600	0.00286	1	02/25/2019 17:44	WG1241792
Dibromomethane	U		0.00114	0.00571	1	02/25/2019 17:44	WG1241792
1,2-Dichlorobenzene	U		0.00166	0.00571	1	02/25/2019 17:44	WG1241792
1,3-Dichlorobenzene	U		0.00194	0.00571	1	02/25/2019 17:44	WG1241792
1,4-Dichlorobenzene	U		0.00225	0.00571	1	02/25/2019 17:44	WG1241792
Dichlorodifluoromethane	U		0.000934	0.00286	1	02/25/2019 17:44	WG1241792
1,1-Dichloroethane	U		0.000657	0.00286	1	02/25/2019 17:44	WG1241792
1,2-Dichloroethane	U		0.000542	0.00286	1	03/02/2019 04:37	WG1244113
1,1-Dichloroethene	0.00222 J	J	0.000571	0.00286	1	02/25/2019 17:44	WG1241792
cis-1,2-Dichloroethene	0.694		0.000788	0.00286	1	02/25/2019 17:44	WG1241792
trans-1,2-Dichloroethene	U		0.00163	0.00571	1	02/25/2019 17:44	WG1241792
1,2-Dichloropropane	U		0.00145	0.00571	1	02/25/2019 17:44	WG1241792
1,1-Dichloropropene	U		0.000799	0.00286	1	02/25/2019 17:44	WG1241792
1,3-Dichloropropane	U		0.00200	0.00571	1	02/25/2019 17:44	WG1241792
cis-1,3-Dichloropropene	U		0.000774	0.00286	1	02/25/2019 17:44	WG1241792
trans-1,3-Dichloropropene	U		0.00175	0.00571	1	02/25/2019 17:44	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	02/25/2019 17:44	WG1241792
2,2-Dichloropropane	U		0.000906	0.00286	1	02/25/2019 17:44	WG1241792
Di-isopropyl ether	U		0.000400	0.00114	1	02/25/2019 17:44	WG1241792
Ethylbenzene	U		0.000605	0.00286	1	02/25/2019 17:44	WG1241792
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	02/25/2019 17:44	WG1241792
2-Hexanone	U		0.0114	0.0286	1	02/25/2019 17:44	WG1241792
n-Hexane	0.00199 U	B J	0.00121	0.00571	1	02/25/2019 17:44	WG1241792
Iodomethane	U		0.00691	0.0143	1	02/25/2019 17:44	WG1241792
Isopropylbenzene	U		0.000986	0.00286	1	02/25/2019 17:44	WG1241792
p-Isopropyltoluene	U		0.00266	0.00571	1	02/25/2019 17:44	WG1241792
2-Butanone (MEK)	U		0.0143	0.0286	1	02/25/2019 17:44	WG1241792
Methylene Chloride	U		0.00758	0.0286	1	02/25/2019 17:44	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	02/25/2019 17:44	WG1241792

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	UJ J0	0.000337	0.00114	1	02/25/2019 17:44	WG1241792
Naphthalene	U		0.00356	0.0143	1	02/25/2019 17:44	WG1241792
n-Propylbenzene	U		0.00135	0.00571	1	02/25/2019 17:44	WG1241792
Styrene	U	UJ J4	0.00312	0.0143	1	02/25/2019 17:44	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000571	0.00286	1	02/25/2019 17:44	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000445	0.00286	1	02/25/2019 17:44	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000771	0.00286	1	02/25/2019 17:44	WG1241792
Tetrachloroethene	0.0210		0.000799	0.00286	1	03/02/2019 04:37	WG1244113
Toluene	0.00166	J J	0.00143	0.00571	1	02/25/2019 17:44	WG1241792
1,2,3-Trichlorobenzene	U		0.000714	0.00286	1	02/25/2019 17:44	WG1241792
1,2,4-Trichlorobenzene	U		0.00550	0.0143	1	02/25/2019 17:44	WG1241792
1,1,1-Trichloroethane	U		0.000314	0.00286	1	02/25/2019 17:44	WG1241792
1,1,2-Trichloroethane	U		0.00101	0.00286	1	02/25/2019 17:44	WG1241792
Trichloroethene	0.0552		0.000457	0.00114	1	02/25/2019 17:44	WG1241792
Trichlorofluoromethane	U		0.000571	0.00286	1	02/25/2019 17:44	WG1241792
1,2,3-Trichloropropane	U		0.00582	0.0143	1	02/25/2019 17:44	WG1241792
1,2,4-Trimethylbenzene	U		0.00132	0.00571	1	02/25/2019 17:44	WG1241792
1,2,3-Trimethylbenzene	U		0.00131	0.00571	1	02/25/2019 17:44	WG1241792
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	02/25/2019 17:44	WG1241792
Vinyl acetate	U		0.00402	0.0143	1	02/25/2019 17:44	WG1241792
Vinyl chloride	U		0.000780	0.00286	1	02/25/2019 17:44	WG1241792
Xylenes, Total	U		0.00546	0.00742	1	02/25/2019 17:44	WG1241792
(S) Toluene-d8	*100*			*75.0-131*		*02/25/2019 17:44*	WG1241792
(S) Toluene-d8	*102*			*75.0-131*		*03/02/2019 04:37*	WG1244113
(S) 4-Bromofluorobenzene	*89.1*			*67.0-138*		*02/25/2019 17:44*	WG1241792
(S) 4-Bromofluorobenzene	*94.0*			*67.0-138*		*03/02/2019 04:37*	WG1244113
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*02/25/2019 17:44*	WG1241792
(S) 1,2-Dichloroethane-d4	*86.4*			*70.0-130*		*03/02/2019 04:37*	WG1244113

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.5		1	02/27/2019 16:04	WG1242109

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.240	0.438	16.2	02/25/2019 18:04	WG1241792
Acrylonitrile	U		0.0333	0.219	16.2	02/25/2019 18:04	WG1241792
Benzene	U		0.00701	0.0175	16.2	02/25/2019 18:04	WG1241792
Bromobenzene	U		0.0184	0.219	16.2	02/25/2019 18:04	WG1241792
Bromodichloromethane	U		0.0138	0.0438	16.2	02/25/2019 18:04	WG1241792
Bromochloromethane	U		0.0198	0.0876	16.2	02/25/2019 18:04	WG1241792
Bromoform	U		0.0647	0.270	10	03/02/2019 04:59	WG1244113
Bromomethane	U	~~J4~~	0.0648	0.219	16.2	02/25/2019 18:04	WG1241792
n-Butylbenzene	U		0.0673	0.219	16.2	02/25/2019 18:04	WG1241792
sec-Butylbenzene	U		0.0443	0.219	16.2	02/25/2019 18:04	WG1241792
tert-Butylbenzene	U		0.0271	0.0876	16.2	02/25/2019 18:04	WG1241792
Carbon disulfide	U		0.0711	0.219	16.2	02/25/2019 18:04	WG1241792
Carbon tetrachloride	U		0.0189	0.0876	16.2	02/25/2019 18:04	WG1241792
Chlorobenzene	U		0.0100	0.0438	16.2	02/25/2019 18:04	WG1241792
Chlorodibromomethane	U		0.00788	0.0438	16.2	02/25/2019 18:04	WG1241792
Chloroethane	U		0.0189	0.0876	16.2	02/25/2019 18:04	WG1241792
Chloroform	U		0.00727	0.0438	16.2	02/25/2019 18:04	WG1241792
Chloromethane	U		0.0243	0.219	16.2	02/25/2019 18:04	WG1241792
2-Chlorotoluene	U		0.0161	0.0438	16.2	02/25/2019 18:04	WG1241792
4-Chlorotoluene	U		0.0198	0.0876	16.2	02/25/2019 18:04	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.0893	0.438	16.2	02/25/2019 18:04	WG1241792
1,2-Dibromoethane	U		0.00919	0.0438	16.2	02/25/2019 18:04	WG1241792
Dibromomethane	U		0.0175	0.0876	16.2	02/25/2019 18:04	WG1241792
1,2-Dichlorobenzene	U		0.0254	0.0876	16.2	02/25/2019 18:04	WG1241792
1,3-Dichlorobenzene	U		0.0297	0.0876	16.2	02/25/2019 18:04	WG1241792
1,4-Dichlorobenzene	U		0.0345	0.0876	16.2	02/25/2019 18:04	WG1241792
Dichlorodifluoromethane	U		0.0143	0.0438	16.2	02/25/2019 18:04	WG1241792
1,1-Dichloroethane	U		0.0101	0.0438	16.2	02/25/2019 18:04	WG1241792
1,2-Dichloroethane	U		0.00514	0.0270	10	03/02/2019 04:59	WG1244113
1,1-Dichloroethene	U		0.00876	0.0438	16.2	02/25/2019 18:04	WG1241792
cis-1,2-Dichloroethene	0.209		0.0121	0.0438	16.2	02/25/2019 18:04	WG1241792
trans-1,2-Dichloroethene	U		0.0251	0.0876	16.2	02/25/2019 18:04	WG1241792
1,2-Dichloropropane	U		0.0223	0.0876	16.2	02/25/2019 18:04	WG1241792
1,1-Dichloropropene	U		0.0122	0.0438	16.2	02/25/2019 18:04	WG1241792
1,3-Dichloropropane	U		0.0307	0.0876	16.2	02/25/2019 18:04	WG1241792
cis-1,3-Dichloropropene	U		0.0119	0.0438	16.2	02/25/2019 18:04	WG1241792
trans-1,3-Dichloropropene	U		0.0268	0.0876	16.2	02/25/2019 18:04	WG1241792
trans-1,4-Dichloro-2-butene	U		0.0245	0.0876	16.2	02/25/2019 18:04	WG1241792
2,2-Dichloropropane	U		0.0138	0.0438	16.2	02/25/2019 18:04	WG1241792
Di-isopropyl ether	U		0.00613	0.0175	16.2	02/25/2019 18:04	WG1241792
Ethylbenzene	U		0.00929	0.0438	16.2	02/25/2019 18:04	WG1241792
Hexachloro-1,3-butadiene	U		0.223	0.438	16.2	02/25/2019 18:04	WG1241792
2-Hexanone	U		0.175	0.438	16.2	02/25/2019 18:04	WG1241792
n-Hexane	U		0.0186	0.0876	16.2	02/25/2019 18:04	WG1241792
Iodomethane	U		0.106	0.219	16.2	02/25/2019 18:04	WG1241792
Isopropylbenzene	U		0.0151	0.0438	16.2	02/25/2019 18:04	WG1241792
p-Isopropyltoluene	U		0.0408	0.0876	16.2	02/25/2019 18:04	WG1241792
2-Butanone (MEK)	U		0.218	0.438	16.2	02/25/2019 18:04	WG1241792
Methylene Chloride	U		0.117	0.438	16.2	02/25/2019 18:04	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.175	0.438	16.2	02/25/2019 18:04	WG1241792

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	UJ	J0	0.00517	0.0175	16.2	02/25/2019 18:04	WG1241792
Naphthalene	U			0.0546	0.219	16.2	02/25/2019 18:04	WG1241792
n-Propylbenzene	U			0.0207	0.0876	16.2	02/25/2019 18:04	WG1241792
Styrene	U	UJ	J4	0.0478	0.219	16.2	02/25/2019 18:04	WG1241792
1,1,1,2-Tetrachloroethane	U			0.00876	0.0438	16.2	02/25/2019 18:04	WG1241792
1,1,2,2-Tetrachloroethane	U			0.00683	0.0438	16.2	02/25/2019 18:04	WG1241792
1,1,2-Trichlorotrifluoroethane	U			0.0118	0.0438	16.2	02/25/2019 18:04	WG1241792
Tetrachloroethene	U			0.00757	0.0270	10	03/02/2019 04:59	WG1244113
Toluene	U			0.0218	0.0876	16.2	02/25/2019 18:04	WG1241792
1,2,3-Trichlorobenzene	U			0.0109	0.0438	16.2	02/25/2019 18:04	WG1241792
1,2,4-Trichlorobenzene	U			0.0844	0.219	16.2	02/25/2019 18:04	WG1241792
1,1,1-Trichloroethane	U			0.00482	0.0438	16.2	02/25/2019 18:04	WG1241792
1,1,2-Trichloroethane	U			0.0155	0.0438	16.2	02/25/2019 18:04	WG1241792
Trichloroethene	0.0182			0.00701	0.0175	16.2	02/25/2019 18:04	WG1241792
Trichlorofluoromethane	U			0.00876	0.0438	16.2	02/25/2019 18:04	WG1241792
1,2,3-Trichloropropane	U			0.0893	0.219	16.2	02/25/2019 18:04	WG1241792
1,2,4-Trimethylbenzene	U			0.0203	0.0876	16.2	02/25/2019 18:04	WG1241792
1,2,3-Trimethylbenzene	U			0.0201	0.0876	16.2	02/25/2019 18:04	WG1241792
1,3,5-Trimethylbenzene	U			0.0189	0.0876	16.2	02/25/2019 18:04	WG1241792
Vinyl acetate	U			0.0616	0.219	16.2	02/25/2019 18:04	WG1241792
Vinyl chloride	U			0.0120	0.0438	16.2	02/25/2019 18:04	WG1241792
Xylenes, Total	U			0.0837	0.114	16.2	02/25/2019 18:04	WG1241792
(S) Toluene-d8	*101*				*75.0-131*		*02/25/2019 18:04*	WG1241792
(S) Toluene-d8	*126*				*75.0-131*		*03/02/2019 04:59*	WG1244113
(S) 4-Bromofluorobenzene	*87.4*				*67.0-138*		*02/25/2019 18:04*	WG1241792
(S) 4-Bromofluorobenzene	*96.0*				*67.0-138*		*03/02/2019 04:59*	WG1244113
(S) 1,2-Dichloroethane-d4	*107*				*70.0-130*		*02/25/2019 18:04*	WG1241792
(S) 1,2-Dichloroethane-d4	*93.2*				*70.0-130*		*03/02/2019 04:59*	WG1244113

Sample Narrative:

L1072936-16 WG1241792, WG1244113: Dilution due to sample volume.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.3		1	02/27/2019 16:04	WG1242109

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0152	0.0277	1	02/25/2019 18:23	WG1241792
Acrylonitrile	U		0.00210	0.0138	1	02/25/2019 18:23	WG1241792
Benzene	U		0.000443	0.00111	1	02/25/2019 18:23	WG1241792
Bromobenzene	U		0.00116	0.0138	1	02/25/2019 18:23	WG1241792
Bromodichloromethane	U		0.000873	0.00277	1	02/25/2019 18:23	WG1241792
Bromochloromethane	U		0.00125	0.00554	1	02/25/2019 18:23	WG1241792
Bromoform	U		0.00662	0.0277	1	03/02/2019 05:21	WG1244113
Bromomethane	U	~~J4~~	0.00410	0.0138	1	02/25/2019 18:23	WG1241792
n-Butylbenzene	U		0.00425	0.0138	1	02/25/2019 18:23	WG1241792
sec-Butylbenzene	U		0.00280	0.0138	1	02/25/2019 18:23	WG1241792
tert-Butylbenzene	U		0.00172	0.00554	1	02/25/2019 18:23	WG1241792
Carbon disulfide	U		0.00450	0.0138	1	02/25/2019 18:23	WG1241792
Carbon tetrachloride	U		0.00120	0.00554	1	02/25/2019 18:23	WG1241792
Chlorobenzene	U		0.000635	0.00277	1	02/25/2019 18:23	WG1241792
Chlorodibromomethane	U		0.000498	0.00277	1	02/25/2019 18:23	WG1241792
Chloroethane	U		0.00120	0.00554	1	02/25/2019 18:23	WG1241792
Chloroform	U		0.000460	0.00277	1	02/25/2019 18:23	WG1241792
Chloromethane	U		0.00154	0.0138	1	02/25/2019 18:23	WG1241792
2-Chlorotoluene	U		0.00102	0.00277	1	02/25/2019 18:23	WG1241792
4-Chlorotoluene	U		0.00125	0.00554	1	02/25/2019 18:23	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00565	0.0277	1	02/25/2019 18:23	WG1241792
1,2-Dibromoethane	U		0.000581	0.00277	1	02/25/2019 18:23	WG1241792
Dibromomethane	U		0.00111	0.00554	1	02/25/2019 18:23	WG1241792
1,2-Dichlorobenzene	U		0.00161	0.00554	1	02/25/2019 18:23	WG1241792
1,3-Dichlorobenzene	U		0.00188	0.00554	1	02/25/2019 18:23	WG1241792
1,4-Dichlorobenzene	U		0.00218	0.00554	1	02/25/2019 18:23	WG1241792
Dichlorodifluoromethane	U		0.000906	0.00277	1	02/25/2019 18:23	WG1241792
1,1-Dichloroethane	U		0.000637	0.00277	1	02/25/2019 18:23	WG1241792
1,2-Dichloroethane	U		0.000526	0.00277	1	03/02/2019 05:21	WG1244113
1,1-Dichloroethene	0.00206 J	J	0.000554	0.00277	1	02/25/2019 18:23	WG1241792
cis-1,2-Dichloroethene	0.564		0.000764	0.00277	1	02/25/2019 18:23	WG1241792
trans-1,2-Dichloroethene	0.00208 J	J	0.00158	0.00554	1	02/25/2019 18:23	WG1241792
1,2-Dichloropropane	U		0.00141	0.00554	1	02/25/2019 18:23	WG1241792
1,1-Dichloropropene	U		0.000775	0.00277	1	02/25/2019 18:23	WG1241792
1,3-Dichloropropane	U		0.00194	0.00554	1	02/25/2019 18:23	WG1241792
cis-1,3-Dichloropropene	U		0.000751	0.00277	1	02/25/2019 18:23	WG1241792
trans-1,3-Dichloropropene	U		0.00169	0.00554	1	02/25/2019 18:23	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00155	0.00554	1	02/25/2019 18:23	WG1241792
2,2-Dichloropropane	U		0.000878	0.00277	1	02/25/2019 18:23	WG1241792
Di-isopropyl ether	U		0.000388	0.00111	1	02/25/2019 18:23	WG1241792
Ethylbenzene	U		0.000587	0.00277	1	02/25/2019 18:23	WG1241792
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	02/25/2019 18:23	WG1241792
2-Hexanone	U		0.0111	0.0277	1	02/25/2019 18:23	WG1241792
n-Hexane	0.00142 U	B J	0.00117	0.00554	1	02/25/2019 18:23	WG1241792
Iodomethane	U		0.00670	0.0138	1	02/25/2019 18:23	WG1241792
Isopropylbenzene	U		0.000956	0.00277	1	02/25/2019 18:23	WG1241792
p-Isopropyltoluene	U		0.00258	0.00554	1	02/25/2019 18:23	WG1241792
2-Butanone (MEK)	U		0.0138	0.0277	1	02/25/2019 18:23	WG1241792
Methylene Chloride	U		0.00735	0.0277	1	02/25/2019 18:23	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	02/25/2019 18:23	WG1241792

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	UJ	J0	0.000327	0.00111	1	02/25/2019 18:23	WG1241792
Naphthalene	U			0.00346	0.0138	1	02/25/2019 18:23	WG1241792
n-Propylbenzene	U			0.00131	0.00554	1	02/25/2019 18:23	WG1241792
Styrene	U	UJ	J4	0.00302	0.0138	1	02/25/2019 18:23	WG1241792
1,1,1,2-Tetrachloroethane	U			0.000554	0.00277	1	02/25/2019 18:23	WG1241792
1,1,2,2-Tetrachloroethane	U			0.000432	0.00277	1	02/25/2019 18:23	WG1241792
1,1,2-Trichlorotrifluoroethane	U			0.000748	0.00277	1	02/25/2019 18:23	WG1241792
Tetrachloroethene	0.251			0.000775	0.00277	1	02/25/2019 18:23	WG1241792
Toluene	0.00146	J	J	0.00138	0.00554	1	02/25/2019 18:23	WG1241792
1,2,3-Trichlorobenzene	U			0.000692	0.00277	1	02/25/2019 18:23	WG1241792
1,2,4-Trichlorobenzene	U			0.00534	0.0138	1	02/25/2019 18:23	WG1241792
1,1,1-Trichloroethane	U			0.000305	0.00277	1	02/25/2019 18:23	WG1241792
1,1,2-Trichloroethane	U			0.000978	0.00277	1	02/25/2019 18:23	WG1241792
Trichloroethene	0.247			0.000443	0.00111	1	02/25/2019 18:23	WG1241792
Trichlorofluoromethane	U			0.000554	0.00277	1	02/25/2019 18:23	WG1241792
1,2,3-Trichloropropane	U			0.00565	0.0138	1	02/25/2019 18:23	WG1241792
1,2,4-Trimethylbenzene	U			0.00128	0.00554	1	02/25/2019 18:23	WG1241792
1,2,3-Trimethylbenzene	U			0.00127	0.00554	1	02/25/2019 18:23	WG1241792
1,3,5-Trimethylbenzene	U			0.00120	0.00554	1	02/25/2019 18:23	WG1241792
Vinyl acetate	U			0.00390	0.0138	1	02/25/2019 18:23	WG1241792
Vinyl chloride	U			0.000756	0.00277	1	02/25/2019 18:23	WG1241792
Xylenes, Total	U			0.00529	0.00720	1	02/25/2019 18:23	WG1241792
(S) Toluene-d8	*102*				*75.0-131*		*02/25/2019 18:23*	WG1241792
(S) Toluene-d8	*102*				*75.0-131*		*03/02/2019 05:21*	WG1244113
(S) 4-Bromofluorobenzene	*87.6*				*67.0-138*		*02/25/2019 18:23*	WG1241792
(S) 4-Bromofluorobenzene	*94.8*				*67.0-138*		*03/02/2019 05:21*	WG1244113
(S) 1,2-Dichloroethane-d4	*99.0*				*70.0-130*		*02/25/2019 18:23*	WG1241792
(S) 1,2-Dichloroethane-d4	*91.6*				*70.0-130*		*03/02/2019 05:21*	WG1244113

JC 3/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.42	J	1.05	25.0	1	02/25/2019 10:38	WG1241720
Acrylonitrile	U		0.873	5.00	1	02/25/2019 10:38	WG1241720
Benzene	U		0.0896	0.500	1	02/25/2019 10:38	WG1241720
Bromobenzene	U		0.133	0.500	1	02/25/2019 10:38	WG1241720
Bromodichloromethane	U		0.0800	0.500	1	02/25/2019 10:38	WG1241720
Bromochloromethane	U		0.145	0.500	1	02/25/2019 10:38	WG1241720
Bromoform	U		0.186	0.500	1	02/25/2019 10:38	WG1241720
Bromomethane	U		0.157	2.50	1	02/25/2019 10:38	WG1241720
n-Butylbenzene	U		0.143	0.500	1	02/25/2019 10:38	WG1241720
sec-Butylbenzene	U		0.134	0.500	1	02/25/2019 10:38	WG1241720
tert-Butylbenzene	U		0.183	0.500	1	02/25/2019 10:38	WG1241720
Carbon disulfide	U		0.101	0.500	1	02/25/2019 10:38	WG1241720
Carbon tetrachloride	U		0.159	0.500	1	02/25/2019 10:38	WG1241720
Chlorobenzene	U		0.140	0.500	1	02/25/2019 10:38	WG1241720
Chlorodibromomethane	U		0.128	0.500	1	02/25/2019 10:38	WG1241720
Chloroethane	U		0.141	2.50	1	02/25/2019 10:38	WG1241720
Chloroform	U		0.0860	0.500	1	02/25/2019 10:38	WG1241720
Chloromethane	U UJ	J0	0.153	1.25	1	02/25/2019 10:38	WG1241720
2-Chlorotoluene	U		0.111	0.500	1	02/25/2019 10:38	WG1241720
4-Chlorotoluene	U		0.0972	0.500	1	02/25/2019 10:38	WG1241720
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/25/2019 10:38	WG1241720
1,2-Dibromoethane	U		0.193	0.500	1	02/25/2019 10:38	WG1241720
Dibromomethane	U	J4	0.117	0.500	1	02/25/2019 10:38	WG1241720
1,2-Dichlorobenzene	U		0.101	0.500	1	02/25/2019 10:38	WG1241720
1,3-Dichlorobenzene	U		0.130	0.500	1	02/25/2019 10:38	WG1241720
1,4-Dichlorobenzene	U		0.121	0.500	1	02/25/2019 10:38	WG1241720
Dichlorodifluoromethane	U		0.127	2.50	1	02/25/2019 10:38	WG1241720
1,1-Dichloroethane	U		0.114	0.500	1	02/25/2019 10:38	WG1241720
1,2-Dichloroethane	U		0.108	0.500	1	02/25/2019 10:38	WG1241720
1,1-Dichloroethene	U		0.188	0.500	1	02/25/2019 10:38	WG1241720
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/25/2019 10:38	WG1241720
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/25/2019 10:38	WG1241720
1,2-Dichloropropane	U		0.190	0.500	1	02/25/2019 10:38	WG1241720
1,1-Dichloropropene	U		0.128	0.500	1	02/25/2019 10:38	WG1241720
1,3-Dichloropropane	U		0.147	1.00	1	02/25/2019 10:38	WG1241720
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/25/2019 10:38	WG1241720
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/25/2019 10:38	WG1241720
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/25/2019 10:38	WG1241720
2,2-Dichloropropane	U		0.0929	0.500	1	02/25/2019 10:38	WG1241720
Di-isopropyl ether	U		0.0924	0.500	1	02/25/2019 10:38	WG1241720
Ethylbenzene	U		0.158	0.500	1	02/25/2019 10:38	WG1241720
Hexachloro-1,3-butadiene	U UJ	J0	0.157	1.00	1	02/25/2019 10:38	WG1241720
2-Hexanone	U		0.757	5.00	1	02/25/2019 10:38	WG1241720
n-Hexane	U		0.305	5.00	1	02/25/2019 10:38	WG1241720
Iodomethane	U		0.377	10.0	1	02/26/2019 05:55	WG1241940
Isopropylbenzene	U		0.126	0.500	1	02/25/2019 10:38	WG1241720
p-Isopropyltoluene	U		0.138	0.500	1	02/25/2019 10:38	WG1241720
2-Butanone (MEK)	U		1.28	5.00	1	02/25/2019 10:38	WG1241720
Methylene Chloride	U		1.07	2.50	1	02/25/2019 10:38	WG1241720
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/25/2019 10:38	WG1241720
Methyl tert-butyl ether	U		0.102	0.500	1	02/25/2019 10:38	WG1241720
Naphthalene	U		0.174	2.50	1	02/25/2019 10:38	WG1241720
n-Propylbenzene	U		0.162	0.500	1	02/25/2019 10:38	WG1241720
Styrene	U		0.117	0.500	1	02/25/2019 10:38	WG1241720
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/25/2019 10:38	WG1241720
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/25/2019 10:38	WG1241720

JC 3/20/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/25/2019 10:38	WG1241720
Tetrachloroethene	U		0.199	0.500	1	02/25/2019 10:38	WG1241720
Toluene	U		0.412	0.500	1	02/25/2019 10:38	WG1241720
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/25/2019 10:38	WG1241720
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/25/2019 10:38	WG1241720
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/25/2019 10:38	WG1241720
1,1,2-Trichloroethane	U		0.186	0.500	1	02/25/2019 10:38	WG1241720
Trichloroethene	U		0.153	0.500	1	02/25/2019 10:38	WG1241720
Trichlorofluoromethane	U		0.130	2.50	1	02/25/2019 10:38	WG1241720
1,2,3-Trichloropropane	U		0.247	2.50	1	02/25/2019 10:38	WG1241720
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/25/2019 10:38	WG1241720
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/25/2019 10:38	WG1241720
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/25/2019 10:38	WG1241720
Vinyl acetate	U		0.645	5.00	1	02/25/2019 10:38	WG1241720
Vinyl chloride	U		0.118	0.500	1	02/25/2019 10:38	WG1241720
Xylenes, Total	U		0.316	1.50	1	02/25/2019 10:38	WG1241720
(S) Toluene-d8	*102*			*80.0-120*		*02/25/2019 10:38*	WG1241720
(S) Toluene-d8	*97.0*			*80.0-120*		*02/26/2019 05:55*	WG1241940
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*02/25/2019 10:38*	WG1241720
(S) 4-Bromofluorobenzene	*94.9*			*77.0-126*		*02/26/2019 05:55*	WG1241940
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*02/25/2019 10:38*	WG1241720
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*02/26/2019 05:55*	WG1241940

JC 3/20/19

MEMORANDUM

TO: Project File **DATE:** April 23, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.601

TASK: EIM Data Validation Level EPA2A for March 2019 – Soil Samples

LAB: Pace Sample Delivery Groups L1079417, L1081046, L1081910, L1082393, and L1082918

Fifty-nine (59) soil samples including three (3) field duplicates, and three (3) trip blanks were collected as part of a sampling event during monitoring well installation at the Former American Linen Supply Site, in Seattle, Washington, on March 13, 18, 21, 22, 25, and 26, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total Solids by Standard Methods 2540 G-2011.

Associated soil sample data are reported in five Pace SDGs (L1079417, L1081046, L1081910, L1082393, and L1082918). The quality assurance review of the sample data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for soils from the date of collection. All holding time criteria were met.

Total Solids by SM 2540 G 2011:
Samples were analyzed within the USEPA recommended holding time of seven days for total solids.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however Pace's notes indicate the following:

- SDG L1079417 - *USEPA Method 8260C:* A continuing calibration verification (CCV) issue is noted for acetone associated with analytical batch WG1252003 (analyzed on March 19, 2019). The compound is qualified by the laboratory "J0" to indicate that there was a method acceptable CCV failure. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1079417 - *USEPA Method 8260C:* A continuing calibration verification (CCV) issue is noted by Pace for 2-butanone (MEK) associated with analytical batch WG1251625 (analyzed on March 18, 2019). The compound is qualified by the laboratory "J0" to indicate that there was a method acceptable CCV failure. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1081046 - *USEPA Method 8260C:* A continuing calibration verification (CCV) issue is noted by Pace for hexane associated with analytical batch WG1254917 (analyzed on March 25, 2019). The compound is qualified by the laboratory "J0" to indicate that there was a method acceptable CCV failure. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1082393 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches WG1258093 (analyzed on March 29, 2019). The compound is qualified by the laboratory "J0" to indicate that there was a method acceptable CCV failure. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1079417 - Analytical batch WG1251625: A low level of 1,2,4-trimethylbenzene is detected in the associated method blank. **Low levels (less than the RDL) of 1,2,4-trimethylbenzene are detected in five samples (B16D16-15, B16D16-25, B16D16-50, B16D16-60, and B16D16-70) and associated 1,2,4-trimethylbenzene results are qualified as not detected (U) due to blank contamination.**

- SDG L1081046 - Analytical batch WG1254708: A low level of cis-1,2-dichloroethene is detected in the method blank. No action is required since cis-1,2-dichloroethene is not detected in the associated Trip Blank.

- SDG L1081910 - Analytical batch WG1256494: A low level of methylene chloride is detected in the method blank. No action is required since methylene chloride is not detected in the associated sample B13D13-40.

- SDG L1082918 - Analytical batch WG1258976: A low level of 1,2,3-trichlorobenzene is detected in the method blank. No action is required since 1,2,3-trichlorobenzene is not detected in the associated samples.

Total Solids by SM 2540 G 2011:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

Trip Blank Results

USEPA Method 8260C:
Three trip blanks were collected and analyzed for VOCs (SDGs L1081046, L1081910, and L1082918). The target analytes were not detected in the trip blanks at or above the RDLs with the following exceptions:

- SDG L1081910 - Analytical batch WG1257024: A low level of acetone was detected in the trip blank. No action is required since acetone is either not detected or not detected at low levels (below the RDLs) in the associated samples.

- SDG L1082918 – Analytical batch WG1257024: A low level of acetone was detected in the trip blank. **Acetone was also detected at low levels (below the RDLs) in samples B21D21-30 and B21D21-40. Acetone results in these samples are qualified as not detected (U) due to trip blank contamination.**

Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate sample pairs are as follows:

- SDG L1079417: Samples B16D16-105 and B-934-105
- SDG L1081046: Samples B19D19-40 and B-935-40
- SDG L1082918: Samples B21D21-60 and B-936-60

Field duplicate pairs were submitted and analyzed for VOCs. VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% or absolute difference <2X RDL (for results <5X the RDL) for the field duplicates with the following exceptions:

- SDG L1081046: RPD results for cis-1,2-dichloroethene, n-hexane, tetrachloroethene, and trichloroethene are not comparable for field duplicate samples B19D19-40 and B-935-40. **Field duplicate results for cis-1,2-dichloroethene, n-hexane, tetrachloroethene, and trichloroethene are estimated and qualified (J) due to poor field duplicate precision.**
- SDG L1082918: RPD results for cis-1,2-dichloroethene and vinyl chloride are not comparable for field duplicate samples B21D21-60 and B-936-60. **Field duplicate results for cis-1,2-dichloroethene and vinyl chloride are estimated and qualified (J) due to poor field duplicate precision.**

Laboratory Duplicate Analyses

USEPA Method 8260C:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample (LCS), matrix spike/matrix spike duplicates (MS/MSDs), or field duplicate results for precision data.

Total Solids by SM 2540 G 2011:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 10 %.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260C:

LCS was analyzed by USEPA Method 8260C method. The LCS %Rs for the all target compounds are within the laboratory control criteria for soils with the following exceptions:

- SDG L1079417 - Analytical batch WG1252749: LCS recoveries for 2-chlorotoluene, 1,1-dichloropropene, and styrene are above control limit criteria and laboratory qualified (J4). **Assigned laboratory qualifiers (J4) are removed since these compounds are not detected in the associated samples B16D16-105 and B-934-105.**

- SDG L1081046 – Analytical batch WG1254917: LCS recovery for bromochloromethane is below control limit criteria and laboratory qualified (J4). **Associated sample results for bromochloromethane are estimated and qualified (UJ) due to low LCS recovery.**

- SDG L1081046 – Analytical batch WG1254917: LCS recoveries for cis-1,2-dichloroethene and 2,2-dichloropropane are above control limit criteria and laboratory qualified (J4). **The cis-1,2-dichloroethene and 2,2-dichloropropane assigned laboratory qualifiers (J4) are removed on non-detected results and qualified (J) on detected results.**

- SDG L1081046 – Analytical batch WG1254919: LCS recoveries for bromobenzene, chloromethane, and dibromomethane are above control limit criteria and laboratory qualified (J4). **The bromobenzene, chloromethane, and dibromomethane assigned laboratory qualifiers (J4) are removed since these compounds are not detected in the associated samples B19D19-110 and B-935-40.**

- SDG L1081046 – Analytical batch WG1254919: LCS recovery for 1,1,2-trichloroethane is below control limit criteria and laboratory qualified (J4). **Associated sample B19D19-110 and B-935-40 results for 1,1,2-trichloroethane are estimated and qualified (UJ) due to low LCS recovery.**

- SDG L1081046 – Analytical batch WG1255214: LCS recoveries for ethylbenzene and xylenes (total) are below control limit criteria and laboratory qualified (J4). **Associated sample results for ethylbenzene and xylenes (total) are estimated and qualified (UJ/J) due to low LCS recoveries.**

- SDG L1081046 – Analytical batch WG1255751: LCS recovery for ethylbenzene is below control limit criteria and laboratory qualified (J4). **Associated sample results for ethylbenzene are estimated and qualified (UJ/J) due to a low LCS recovery.**

- SDG L1081910 – Analytical batch WG1256234: LCS recovery for bromochloromethane is below control limit criteria and laboratory qualified (J4). **Associated sample results for bromochloromethane are estimated and qualified (UJ) due to low LCS recovery.**

- SDG L1081910 – Analytical batch WG1256494: LCS recovery for bromochloromethane is below control limit criteria and laboratory qualified (J4). **Associated sample result**

B13D13-40 for bromochloromethane are estimated and qualified (UJ) due to low LCS recovery.

- SDG L1081910 – Analytical batch WG1256494: LCS recoveries for bromoform, dibromomethane, and 1,2-dichloroethane are above control limit criteria and laboratory qualified (J4). **The bromoform, dibromomethane, and 1,2-dichloroethane assigned laboratory qualifiers (J4) are removed since these compounds are not detected in the associated sample B13D13-40.**

- SDG L1082393 – Analytical batch WG1258093: LCS recovery for bromochloromethane, 1,4-dichlorobenzene, and trichloroethene are below control limit criteria and laboratory qualified (J4). **Associated sample results for these compounds are estimated and qualified (UJ/J) due to low LCS recovery.**

- SDG L1082393 – Analytical batch WG1258093: LCS recovery for total xylenes is 76.8% and the laboratory acceptance limits are 72-127%. It appears that the associated results are inadvertently laboratory qualified (J4). No action was taken other than to remove the J4 qualifiers from the associated samples.

Total Solids by SM 2540 G 2011:
The LCS %Rs for total solids are within the laboratory control criteria for soils.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on client samples (B18D18-50 from SDG L1082393 and B13D13-50 from SDG L1081910) and on a non-client sample associated with SDG L1079417. In cases where MS/MSDs were not performed refer to associated LCS results for accuracy data and field duplicate results for precision data. Following Guidelines, non-project-specific matrix spike results were not evaluated as part of this data validation. MS/MSD % Rs and RPDs are acceptable with the following discussion and exceptions:

- SDG L1079417 - Analytical batch WG1252749: Spike analyses were performed on a non-client sample within the analytical batch. Matrix spike recoveries and RPDs are acceptable. Refer to LCS results for additional information.

- SDG L1081910 - Analytical batch WG1256234: Spike analyses were performed on a client sample B13D13-50. Multiple compounds were recovered wide with high RPDs and are laboratory qualified (J3). Review of the spike results show a consistently low bias for the MSD results (relative to the MS results). **All associated laboratory qualified (J3) results are qualified as estimated (J) for sample B13D13-50 due to possible sample heterogeneity. Several compounds (carbon disulfide, n-hexane, and trichlorofluoromethane) are recovered below acceptance criteria and are laboratory qualified (J6). These results are rejected (R) due to low spike recoveries (<10%).**

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications. Pace uses a "K" qualifier in the EDDs but not on the hardcopy to indicate that the reported concentration is an estimate due to issues with calibration or accuracy. The "K" qualifier in each case is removed from modified EDD and replaced with the appropriate National Functional Guideline qualifier.

Compound Identification and Quantitation Limits

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. Though no action is taken other than to note that Pace sample narrative notes indicate that several VOC target compounds were too high to run at lower dilution for nine (including a field duplicate) samples as follows:

Client Sample Identification	SDG Number	Laboratory Identification
B16D16-15	L1079417	L1079417-01
B16D16-55	L1079417	L1079417-09

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use with the following exceptions:

- SDG L1081910 - Analytical batch WG1256234: Spike analyses were performed on a client sample B13D13-50. **Several compounds (carbon disulfide, n-hexane, and trichlorofluoromethane) were recovered below acceptance criteria and are laboratory qualified (J6). These results are rejected (R) and are considered unusable due to low spike recoveries (<10%).**

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.2		1	03/19/2019 13:31	WG1252060

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0908 J	J J0	0.0643	0.117	4	03/19/2019 13:15	WG1252003
Acrylonitrile	U		0.00892	0.0587	4	03/18/2019 16:19	WG1251625
Benzene	U		0.00188	0.00470	4	03/18/2019 16:19	WG1251625
Bromobenzene	U		0.00493	0.0587	4	03/18/2019 16:19	WG1251625
Bromodichloromethane	U		0.00370	0.0117	4	03/18/2019 16:19	WG1251625
Bromochloromethane	U		0.00531	0.0235	4	03/18/2019 16:19	WG1251625
Bromoform	U		0.0281	0.117	4	03/18/2019 16:19	WG1251625
Bromomethane	U		0.0174	0.0587	4	03/18/2019 16:19	WG1251625
n-Butylbenzene	U		0.0181	0.0587	4	03/19/2019 13:15	WG1252003
sec-Butylbenzene	U		0.0119	0.0587	4	03/18/2019 16:19	WG1251625
tert-Butylbenzene	U		0.00728	0.0235	4	03/18/2019 16:19	WG1251625
Carbon disulfide	U		0.0190	0.0587	4	03/18/2019 16:19	WG1251625
Carbon tetrachloride	U		0.00507	0.0235	4	03/18/2019 16:19	WG1251625
Chlorobenzene	U		0.00269	0.0117	4	03/18/2019 16:19	WG1251625
Chlorodibromomethane	U		0.00211	0.0117	4	03/18/2019 16:19	WG1251625
Chloroethane	U		0.00507	0.0235	4	03/18/2019 16:19	WG1251625
Chloroform	U		0.00195	0.0117	4	03/18/2019 16:19	WG1251625
Chloromethane	U		0.00653	0.0587	4	03/18/2019 16:19	WG1251625
2-Chlorotoluene	U		0.00432	0.0117	4	03/18/2019 16:19	WG1251625
4-Chlorotoluene	U		0.00531	0.0235	4	03/18/2019 16:19	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.0240	0.117	4	03/18/2019 16:19	WG1251625
1,2-Dibromoethane	U		0.00247	0.0117	4	03/18/2019 16:19	WG1251625
Dibromomethane	U		0.00470	0.0235	4	03/18/2019 16:19	WG1251625
1,2-Dichlorobenzene	U		0.00681	0.0235	4	03/18/2019 16:19	WG1251625
1,3-Dichlorobenzene	U		0.00798	0.0235	4	03/18/2019 16:19	WG1251625
1,4-Dichlorobenzene	U		0.00925	0.0235	4	03/18/2019 16:19	WG1251625
Dichlorodifluoromethane	U		0.00384	0.0117	4	03/18/2019 16:19	WG1251625
1,1-Dichloroethane	U		0.00270	0.0117	4	03/18/2019 16:19	WG1251625
1,2-Dichloroethane	U		0.00223	0.0117	4	03/18/2019 16:19	WG1251625
1,1-Dichloroethene	U		0.00235	0.0117	4	03/18/2019 16:19	WG1251625
cis-1,2-Dichloroethene	U		0.00324	0.0117	4	03/18/2019 16:19	WG1251625
trans-1,2-Dichloroethene	U		0.00672	0.0235	4	03/18/2019 16:19	WG1251625
1,2-Dichloropropane	U		0.00597	0.0235	4	03/18/2019 16:19	WG1251625
1,1-Dichloropropene	U		0.00329	0.0117	4	03/18/2019 16:19	WG1251625
1,3-Dichloropropane	U		0.00822	0.0235	4	03/18/2019 16:19	WG1251625
cis-1,3-Dichloropropene	U		0.00318	0.0117	4	03/18/2019 16:19	WG1251625
trans-1,3-Dichloropropene	U		0.00719	0.0235	4	03/18/2019 16:19	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00658	0.0235	4	03/18/2019 16:19	WG1251625
2,2-Dichloropropane	U		0.00372	0.0117	4	03/18/2019 16:19	WG1251625
Di-isopropyl ether	U		0.00164	0.00470	4	03/18/2019 16:19	WG1251625
Ethylbenzene	U		0.00249	0.0117	4	03/18/2019 16:19	WG1251625
Hexachloro-1,3-butadiene	U		0.0597	0.117	4	03/19/2019 13:15	WG1252003
2-Hexanone	U		0.0470	0.117	4	03/18/2019 16:19	WG1251625
n-Hexane	U		0.00498	0.0235	4	03/18/2019 16:19	WG1251625
Iodomethane	U		0.0284	0.0587	4	03/18/2019 16:19	WG1251625
Isopropylbenzene	U		0.00405	0.0117	4	03/18/2019 16:19	WG1251625
p-Isopropyltoluene	U		0.0109	0.0235	4	03/18/2019 16:19	WG1251625
2-Butanone (MEK)	U		0.0587	0.117	4	03/18/2019 16:19	WG1251625
Methylene Chloride	U		0.0312	0.117	4	03/18/2019 16:19	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0470	0.117	4	03/18/2019 16:19	WG1251625

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00139	0.00470	4	03/18/2019 16:19	WG1251625
Naphthalene	U		0.0147	0.0587	4	03/18/2019 16:19	WG1251625
n-Propylbenzene	U		0.00554	0.0235	4	03/18/2019 16:19	WG1251625
Styrene	U		0.0128	0.0587	4	03/18/2019 16:19	WG1251625
1,1,1,2-Tetrachloroethane	U		0.00235	0.0117	4	03/18/2019 16:19	WG1251625
1,1,2,2-Tetrachloroethane	U		0.00183	0.0117	4	03/18/2019 16:19	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.00317	0.0117	4	03/18/2019 16:19	WG1251625
Tetrachloroethene	U		0.00329	0.0117	4	03/18/2019 16:19	WG1251625
Toluene	U		0.00587	0.0235	4	03/18/2019 16:19	WG1251625
1,2,3-Trichlorobenzene	U		0.00294	0.0117	4	03/19/2019 13:15	WG1252003
1,2,4-Trichlorobenzene	U		0.0227	0.0587	4	03/19/2019 13:15	WG1252003
1,1,1-Trichloroethane	U		0.00129	0.0117	4	03/18/2019 16:19	WG1251625
1,1,2-Trichloroethane	U		0.00415	0.0117	4	03/18/2019 16:19	WG1251625
Trichloroethene	U		0.00188	0.00470	4	03/18/2019 16:19	WG1251625
Trichlorofluoromethane	U		0.00235	0.0117	4	03/18/2019 16:19	WG1251625
1,2,3-Trichloropropane	U		0.0240	0.0587	4	03/18/2019 16:19	WG1251625
1,2,4-Trimethylbenzene	0.00636 U	B J	0.00545	0.0235	4	03/18/2019 16:19	WG1251625
1,2,3-Trimethylbenzene	U		0.00540	0.0235	4	03/18/2019 16:19	WG1251625
1,3,5-Trimethylbenzene	U		0.00507	0.0235	4	03/18/2019 16:19	WG1251625
Vinyl acetate	U		0.0166	0.0587	4	03/18/2019 16:19	WG1251625
Vinyl chloride	U		0.00321	0.0117	4	03/18/2019 16:19	WG1251625
Xylenes, Total	U		0.0224	0.0305	4	03/18/2019 16:19	WG1251625
(S) Toluene-d8	*96.8*			*75.0-131*		*03/18/2019 16:19*	WG1251625
(S) Toluene-d8	*93.4*			*75.0-131*		*03/19/2019 13:15*	WG1252003
(S) 4-Bromofluorobenzene	*87.5*			*67.0-138*		*03/18/2019 16:19*	WG1251625
(S) 4-Bromofluorobenzene	*84.3*			*67.0-138*		*03/19/2019 13:15*	WG1252003
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/18/2019 16:19*	WG1251625
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/19/2019 13:15*	WG1252003

Sample Narrative:

L1079417-01 WG1252003: Lowest possible dilution due to limited sample volume.

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.4		1	03/19/2019 13:31	WG1252060

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0273	1	03/19/2019 13:34	WG1252003
Acrylonitrile	U		0.00208	0.0137	1	03/18/2019 16:41	WG1251625
Benzene	U		0.000438	0.00109	1	03/18/2019 16:41	WG1251625
Bromobenzene	U		0.00115	0.0137	1	03/18/2019 16:41	WG1251625
Bromodichloromethane	U		0.000862	0.00273	1	03/18/2019 16:41	WG1251625
Bromochloromethane	U		0.00124	0.00547	1	03/18/2019 16:41	WG1251625
Bromoform	U		0.00654	0.0273	1	03/18/2019 16:41	WG1251625
Bromomethane	U		0.00405	0.0137	1	03/18/2019 16:41	WG1251625
n-Butylbenzene	U		0.00420	0.0137	1	03/19/2019 13:34	WG1252003
sec-Butylbenzene	U		0.00277	0.0137	1	03/18/2019 16:41	WG1251625
tert-Butylbenzene	U		0.00170	0.00547	1	03/18/2019 16:41	WG1251625
Carbon disulfide	U		0.00444	0.0137	1	03/18/2019 16:41	WG1251625
Carbon tetrachloride	U		0.00118	0.00547	1	03/18/2019 16:41	WG1251625
Chlorobenzene	U		0.000627	0.00273	1	03/18/2019 16:41	WG1251625
Chlorodibromomethane	U		0.000492	0.00273	1	03/18/2019 16:41	WG1251625
Chloroethane	U		0.00118	0.00547	1	03/18/2019 16:41	WG1251625
Chloroform	U		0.000454	0.00273	1	03/18/2019 16:41	WG1251625
Chloromethane	U		0.00152	0.0137	1	03/18/2019 16:41	WG1251625
2-Chlorotoluene	U		0.00101	0.00273	1	03/18/2019 16:41	WG1251625
4-Chlorotoluene	U		0.00124	0.00547	1	03/18/2019 16:41	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00558	0.0273	1	03/18/2019 16:41	WG1251625
1,2-Dibromoethane	U		0.000574	0.00273	1	03/18/2019 16:41	WG1251625
Dibromomethane	U		0.00109	0.00547	1	03/18/2019 16:41	WG1251625
1,2-Dichlorobenzene	U		0.00159	0.00547	1	03/18/2019 16:41	WG1251625
1,3-Dichlorobenzene	U		0.00186	0.00547	1	03/18/2019 16:41	WG1251625
1,4-Dichlorobenzene	U		0.00215	0.00547	1	03/18/2019 16:41	WG1251625
Dichlorodifluoromethane	U		0.000895	0.00273	1	03/18/2019 16:41	WG1251625
1,1-Dichloroethane	U		0.000629	0.00273	1	03/18/2019 16:41	WG1251625
1,2-Dichloroethane	U		0.000520	0.00273	1	03/18/2019 16:41	WG1251625
1,1-Dichloroethene	U		0.000547	0.00273	1	03/18/2019 16:41	WG1251625
cis-1,2-Dichloroethene	U		0.000755	0.00273	1	03/18/2019 16:41	WG1251625
trans-1,2-Dichloroethene	U		0.00156	0.00547	1	03/18/2019 16:41	WG1251625
1,2-Dichloropropane	U		0.00139	0.00547	1	03/18/2019 16:41	WG1251625
1,1-Dichloropropene	U		0.000766	0.00273	1	03/18/2019 16:41	WG1251625
1,3-Dichloropropane	U		0.00191	0.00547	1	03/18/2019 16:41	WG1251625
cis-1,3-Dichloropropene	U		0.000742	0.00273	1	03/18/2019 16:41	WG1251625
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	03/18/2019 16:41	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	03/18/2019 16:41	WG1251625
2,2-Dichloropropane	U		0.000867	0.00273	1	03/18/2019 16:41	WG1251625
Di-isopropyl ether	U		0.000383	0.00109	1	03/18/2019 16:41	WG1251625
Ethylbenzene	U		0.000580	0.00273	1	03/18/2019 16:41	WG1251625
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	03/19/2019 13:34	WG1252003
2-Hexanone	U		0.0109	0.0273	1	03/18/2019 16:41	WG1251625
n-Hexane	U		0.00116	0.00547	1	03/18/2019 16:41	WG1251625
Iodomethane	U		0.00662	0.0137	1	03/18/2019 16:41	WG1251625
Isopropylbenzene	U		0.000944	0.00273	1	03/18/2019 16:41	WG1251625
p-Isopropyltoluene	U		0.00255	0.00547	1	03/18/2019 16:41	WG1251625
2-Butanone (MEK)	U		0.0137	0.0273	1	03/18/2019 16:41	WG1251625
Methylene Chloride	U		0.00726	0.0273	1	03/18/2019 16:41	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	03/18/2019 16:41	WG1251625

JC 4/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00109	1	03/18/2019 16:41	WG1251625
Naphthalene	U		0.00341	0.0137	1	03/18/2019 16:41	WG1251625
n-Propylbenzene	U		0.00129	0.00547	1	03/18/2019 16:41	WG1251625
Styrene	U		0.00299	0.0137	1	03/18/2019 16:41	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000547	0.00273	1	03/18/2019 16:41	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000427	0.00273	1	03/18/2019 16:41	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000738	0.00273	1	03/18/2019 16:41	WG1251625
Tetrachloroethene	0.0142		0.000766	0.00273	1	03/18/2019 16:41	WG1251625
Toluene	U		0.00137	0.00547	1	03/18/2019 16:41	WG1251625
1,2,3-Trichlorobenzene	U		0.000684	0.00273	1	03/19/2019 13:34	WG1252003
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	03/19/2019 13:34	WG1252003
1,1,1-Trichloroethane	U		0.000301	0.00273	1	03/18/2019 16:41	WG1251625
1,1,2-Trichloroethane	U		0.000966	0.00273	1	03/18/2019 16:41	WG1251625
Trichloroethene	0.000603 J	J	0.000438	0.00109	1	03/18/2019 16:41	WG1251625
Trichlorofluoromethane	U		0.000547	0.00273	1	03/18/2019 16:41	WG1251625
1,2,3-Trichloropropane	U		0.00558	0.0137	1	03/18/2019 16:41	WG1251625
1,2,4-Trimethylbenzene	U		0.00127	0.00547	1	03/18/2019 16:41	WG1251625
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	03/18/2019 16:41	WG1251625
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	03/18/2019 16:41	WG1251625
Vinyl acetate	U		0.00385	0.0137	1	03/18/2019 16:41	WG1251625
Vinyl chloride	U		0.000747	0.00273	1	03/18/2019 16:41	WG1251625
Xylenes, Total	U		0.00523	0.00711	1	03/18/2019 16:41	WG1251625
(S) Toluene-d8	*97.6*			*75.0-131*		*03/18/2019 16:41*	WG1251625
(S) Toluene-d8	*93.4*			*75.0-131*		*03/19/2019 13:34*	WG1252003
(S) 4-Bromofluorobenzene	*87.5*			*67.0-138*		*03/18/2019 16:41*	WG1251625
(S) 4-Bromofluorobenzene	*81.6*			*67.0-138*		*03/19/2019 13:34*	WG1252003
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/18/2019 16:41*	WG1251625
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/19/2019 13:34*	WG1252003

JC 4/22/19

B16D16-25
Collected date/time: 03/13/19 09:20

SAMPLE RESULTS - 03

L1079417

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.4		1	03/19/2019 13:31	WG1252060

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0183 J	J J0	0.0147	0.0268	1	03/19/2019 13:54	WG1252003	
Acrylonitrile	U		0.00203	0.0134	1	03/18/2019 17:02	WG1251625	
Benzene	U		0.000428	0.00107	1	03/18/2019 17:02	WG1251625	
Bromobenzene	U		0.00112	0.0134	1	03/18/2019 17:02	WG1251625	
Bromodichloromethane	U		0.000844	0.00268	1	03/18/2019 17:02	WG1251625	
Bromochloromethane	U		0.00121	0.00536	1	03/18/2019 17:02	WG1251625	
Bromoform	U		0.00640	0.0268	1	03/18/2019 17:02	WG1251625	
Bromomethane	U		0.00396	0.0134	1	03/18/2019 17:02	WG1251625	
n-Butylbenzene	U		0.00411	0.0134	1	03/19/2019 13:54	WG1252003	
sec-Butylbenzene	U		0.00271	0.0134	1	03/18/2019 17:02	WG1251625	
tert-Butylbenzene	U		0.00166	0.00536	1	03/18/2019 17:02	WG1251625	
Carbon disulfide	U		0.00435	0.0134	1	03/18/2019 17:02	WG1251625	
Carbon tetrachloride	U		0.00116	0.00536	1	03/18/2019 17:02	WG1251625	
Chlorobenzene	U		0.000614	0.00268	1	03/18/2019 17:02	WG1251625	
Chlorodibromomethane	U		0.000482	0.00268	1	03/18/2019 17:02	WG1251625	
Chloroethane	U		0.00116	0.00536	1	03/18/2019 17:02	WG1251625	
Chloroform	U		0.000444	0.00268	1	03/18/2019 17:02	WG1251625	
Chloromethane	U		0.00149	0.0134	1	03/18/2019 17:02	WG1251625	
2-Chlorotoluene	U		0.000985	0.00268	1	03/18/2019 17:02	WG1251625	
4-Chlorotoluene	U		0.00121	0.00536	1	03/18/2019 17:02	WG1251625	
1,2-Dibromo-3-Chloropropane	U		0.00546	0.0268	1	03/18/2019 17:02	WG1251625	
1,2-Dibromoethane	U		0.000562	0.00268	1	03/18/2019 17:02	WG1251625	
Dibromomethane	U		0.00107	0.00536	1	03/18/2019 17:02	WG1251625	
1,2-Dichlorobenzene	U		0.00155	0.00536	1	03/18/2019 17:02	WG1251625	
1,3-Dichlorobenzene	U		0.00182	0.00536	1	03/18/2019 17:02	WG1251625	
1,4-Dichlorobenzene	U		0.00211	0.00536	1	03/18/2019 17:02	WG1251625	
Dichlorodifluoromethane	U		0.000876	0.00268	1	03/18/2019 17:02	WG1251625	
1,1-Dichloroethane	U		0.000616	0.00268	1	03/18/2019 17:02	WG1251625	
1,2-Dichloroethane	U		0.000509	0.00268	1	03/18/2019 17:02	WG1251625	
1,1-Dichloroethene	U		0.000536	0.00268	1	03/18/2019 17:02	WG1251625	
cis-1,2-Dichloroethene	0.00264 J	J	0.000739	0.00268	1	03/18/2019 17:02	WG1251625	
trans-1,2-Dichloroethene	U		0.00153	0.00536	1	03/18/2019 17:02	WG1251625	
1,2-Dichloropropane	U		0.00136	0.00536	1	03/18/2019 17:02	WG1251625	
1,1-Dichloropropene	U		0.000750	0.00268	1	03/18/2019 17:02	WG1251625	
1,3-Dichloropropane	U		0.00187	0.00536	1	03/18/2019 17:02	WG1251625	
cis-1,3-Dichloropropene	U		0.000726	0.00268	1	03/18/2019 17:02	WG1251625	
trans-1,3-Dichloropropene	U		0.00164	0.00536	1	03/18/2019 17:02	WG1251625	
trans-1,4-Dichloro-2-butene	U		0.00150	0.00536	1	03/18/2019 17:02	WG1251625	
2,2-Dichloropropane	U		0.000849	0.00268	1	03/18/2019 17:02	WG1251625	
Di-isopropyl ether	U		0.000375	0.00107	1	03/18/2019 17:02	WG1251625	
Ethylbenzene	0.000665 J	J	0.000568	0.00268	1	03/18/2019 17:02	WG1251625	JC 4/22/19
Hexachloro-1,3-butadiene	U		0.0136	0.0268	1	03/19/2019 13:54	WG1252003	
2-Hexanone	U		0.0107	0.0268	1	03/18/2019 17:02	WG1251625	
n-Hexane	U		0.00114	0.00536	1	03/18/2019 17:02	WG1251625	
Iodomethane	U		0.00648	0.0134	1	03/18/2019 17:02	WG1251625	
Isopropylbenzene	U		0.000924	0.00268	1	03/18/2019 17:02	WG1251625	
p-Isopropyltoluene	U		0.00250	0.00536	1	03/18/2019 17:02	WG1251625	
2-Butanone (MEK)	0.0265 J	J J0	0.0134	0.0268	1	03/18/2019 17:02	WG1251625	
Methylene Chloride	U		0.00711	0.0268	1	03/18/2019 17:02	WG1251625	
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0268	1	03/18/2019 17:02	WG1251625	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000316	0.00107	1	03/18/2019 17:02	WG1251625
Naphthalene	U		0.00334	0.0134	1	03/18/2019 17:02	WG1251625
n-Propylbenzene	U		0.00126	0.00536	1	03/18/2019 17:02	WG1251625
Styrene	U		0.00292	0.0134	1	03/18/2019 17:02	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000536	0.00268	1	03/18/2019 17:02	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000418	0.00268	1	03/18/2019 17:02	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000723	0.00268	1	03/18/2019 17:02	WG1251625
Tetrachloroethene	0.0242		0.000750	0.00268	1	03/18/2019 17:02	WG1251625
Toluene	U		0.00134	0.00536	1	03/18/2019 17:02	WG1251625
1,2,3-Trichlorobenzene	U		0.000669	0.00268	1	03/19/2019 13:54	WG1252003
1,2,4-Trichlorobenzene	U		0.00516	0.0134	1	03/19/2019 13:54	WG1252003
1,1,1-Trichloroethane	U		0.000295	0.00268	1	03/18/2019 17:02	WG1251625
1,1,2-Trichloroethane	U		0.000946	0.00268	1	03/18/2019 17:02	WG1251625
Trichloroethene	0.00173		0.000428	0.00107	1	03/18/2019 17:02	WG1251625
Trichlorofluoromethane	U		0.000536	0.00268	1	03/18/2019 17:02	WG1251625
1,2,3-Trichloropropane	U		0.00546	0.0134	1	03/18/2019 17:02	WG1251625
1,2,4-Trimethylbenzene	0.00142 U	B J	0.00124	0.00536	1	03/18/2019 17:02	WG1251625
1,2,3-Trimethylbenzene	U		0.00123	0.00536	1	03/18/2019 17:02	WG1251625
1,3,5-Trimethylbenzene	U		0.00116	0.00536	1	03/18/2019 17:02	WG1251625
Vinyl acetate	U		0.00377	0.0134	1	03/18/2019 17:02	WG1251625
Vinyl chloride	U		0.000732	0.00268	1	03/18/2019 17:02	WG1251625
Xylenes, Total	U		0.00512	0.00696	1	03/18/2019 17:02	WG1251625
(S) Toluene-d8	*99.6*			*75.0-131*		*03/18/2019 17:02*	WG1251625
(S) Toluene-d8	*95.3*			*75.0-131*		*03/19/2019 13:54*	WG1252003
(S) 4-Bromofluorobenzene	*88.6*			*67.0-138*		*03/18/2019 17:02*	WG1251625
(S) 4-Bromofluorobenzene	*81.9*			*67.0-138*		*03/19/2019 13:54*	WG1252003
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/18/2019 17:02*	WG1251625
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/19/2019 13:54*	WG1252003

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.0		1	03/19/2019 13:31	WG1252060

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0196 J	J J0	0.0151	0.0275	1	03/19/2019 14:13	WG1252003
Acrylonitrile	U		0.00209	0.0137	1	03/18/2019 17:24	WG1251625
Benzene	U		0.000440	0.00110	1	03/18/2019 17:24	WG1251625
Bromobenzene	U		0.00115	0.0137	1	03/18/2019 17:24	WG1251625
Bromodichloromethane	U		0.000866	0.00275	1	03/18/2019 17:24	WG1251625
Bromochloromethane	U		0.00124	0.00550	1	03/18/2019 17:24	WG1251625
Bromoform	U		0.00657	0.0275	1	03/18/2019 17:24	WG1251625
Bromomethane	U		0.00407	0.0137	1	03/18/2019 17:24	WG1251625
n-Butylbenzene	U		0.00422	0.0137	1	03/19/2019 14:13	WG1252003
sec-Butylbenzene	U		0.00278	0.0137	1	03/18/2019 17:24	WG1251625
tert-Butylbenzene	U		0.00170	0.00550	1	03/18/2019 17:24	WG1251625
Carbon disulfide	U		0.00446	0.0137	1	03/18/2019 17:24	WG1251625
Carbon tetrachloride	U		0.00119	0.00550	1	03/18/2019 17:24	WG1251625
Chlorobenzene	U		0.000630	0.00275	1	03/18/2019 17:24	WG1251625
Chlorodibromomethane	U		0.000495	0.00275	1	03/18/2019 17:24	WG1251625
Chloroethane	U		0.00119	0.00550	1	03/18/2019 17:24	WG1251625
Chloroform	U		0.000456	0.00275	1	03/18/2019 17:24	WG1251625
Chloromethane	U		0.00153	0.0137	1	03/18/2019 17:24	WG1251625
2-Chlorotoluene	U		0.00101	0.00275	1	03/18/2019 17:24	WG1251625
4-Chlorotoluene	U		0.00124	0.00550	1	03/18/2019 17:24	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00560	0.0275	1	03/18/2019 17:24	WG1251625
1,2-Dibromoethane	U		0.000577	0.00275	1	03/18/2019 17:24	WG1251625
Dibromomethane	U		0.00110	0.00550	1	03/18/2019 17:24	WG1251625
1,2-Dichlorobenzene	U		0.00159	0.00550	1	03/18/2019 17:24	WG1251625
1,3-Dichlorobenzene	U		0.00187	0.00550	1	03/18/2019 17:24	WG1251625
1,4-Dichlorobenzene	U		0.00217	0.00550	1	03/18/2019 17:24	WG1251625
Dichlorodifluoromethane	U		0.000899	0.00275	1	03/18/2019 17:24	WG1251625
1,1-Dichloroethane	U		0.000632	0.00275	1	03/18/2019 17:24	WG1251625
1,2-Dichloroethane	U		0.000522	0.00275	1	03/18/2019 17:24	WG1251625
1,1-Dichloroethene	U		0.000550	0.00275	1	03/18/2019 17:24	WG1251625
cis-1,2-Dichloroethene	0.00446		0.000758	0.00275	1	03/18/2019 17:24	WG1251625
trans-1,2-Dichloroethene	U		0.00157	0.00550	1	03/18/2019 17:24	WG1251625
1,2-Dichloropropane	U		0.00140	0.00550	1	03/18/2019 17:24	WG1251625
1,1-Dichloropropene	U		0.000769	0.00275	1	03/18/2019 17:24	WG1251625
1,3-Dichloropropane	U		0.00192	0.00550	1	03/18/2019 17:24	WG1251625
cis-1,3-Dichloropropene	U		0.000745	0.00275	1	03/18/2019 17:24	WG1251625
trans-1,3-Dichloropropene	U		0.00168	0.00550	1	03/18/2019 17:24	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00154	0.00550	1	03/18/2019 17:24	WG1251625
2,2-Dichloropropane	U		0.000872	0.00275	1	03/18/2019 17:24	WG1251625
Di-isopropyl ether	U		0.000385	0.00110	1	03/18/2019 17:24	WG1251625
Ethylbenzene	U		0.000582	0.00275	1	03/18/2019 17:24	WG1251625
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	03/19/2019 14:13	WG1252003
2-Hexanone	U		0.0110	0.0275	1	03/18/2019 17:24	WG1251625
n-Hexane	U		0.00116	0.00550	1	03/18/2019 17:24	WG1251625
Iodomethane	U		0.00665	0.0137	1	03/18/2019 17:24	WG1251625
Isopropylbenzene	U		0.000948	0.00275	1	03/18/2019 17:24	WG1251625
p-Isopropyltoluene	U		0.00256	0.00550	1	03/18/2019 17:24	WG1251625
2-Butanone (MEK)	0.0402 J	J0	0.0137	0.0275	1	03/18/2019 17:24	WG1251625
Methylene Chloride	U		0.00730	0.0275	1	03/18/2019 17:24	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	03/18/2019 17:24	WG1251625

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	03/18/2019 17:24	WG1251625
Naphthalene	U		0.00343	0.0137	1	03/18/2019 17:24	WG1251625
n-Propylbenzene	U		0.00130	0.00550	1	03/18/2019 17:24	WG1251625
Styrene	U		0.00300	0.0137	1	03/18/2019 17:24	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000550	0.00275	1	03/18/2019 17:24	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	03/18/2019 17:24	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000742	0.00275	1	03/18/2019 17:24	WG1251625
Tetrachloroethene	0.0590		0.000769	0.00275	1	03/18/2019 17:24	WG1251625
Toluene	U		0.00137	0.00550	1	03/18/2019 17:24	WG1251625
1,2,3-Trichlorobenzene	U		0.000687	0.00275	1	03/19/2019 14:13	WG1252003
1,2,4-Trichlorobenzene	U		0.00530	0.0137	1	03/19/2019 14:13	WG1252003
1,1,1-Trichloroethane	U		0.000302	0.00275	1	03/18/2019 17:24	WG1251625
1,1,2-Trichloroethane	U		0.000970	0.00275	1	03/18/2019 17:24	WG1251625
Trichloroethene	0.00431		0.000440	0.00110	1	03/18/2019 17:24	WG1251625
Trichlorofluoromethane	U		0.000550	0.00275	1	03/18/2019 17:24	WG1251625
1,2,3-Trichloropropane	U		0.00560	0.0137	1	03/18/2019 17:24	WG1251625
1,2,4-Trimethylbenzene	U		0.00127	0.00550	1	03/18/2019 17:24	WG1251625
1,2,3-Trimethylbenzene	U		0.00126	0.00550	1	03/18/2019 17:24	WG1251625
1,3,5-Trimethylbenzene	U		0.00119	0.00550	1	03/18/2019 17:24	WG1251625
Vinyl acetate	U		0.00387	0.0137	1	03/18/2019 17:24	WG1251625
Vinyl chloride	U		0.000751	0.00275	1	03/18/2019 17:24	WG1251625
Xylenes, Total	U		0.00525	0.00714	1	03/18/2019 17:24	WG1251625
(S) Toluene-d8	*98.2*			*75.0-131*		*03/18/2019 17:24*	WG1251625
(S) Toluene-d8	*93.8*			*75.0-131*		*03/19/2019 14:13*	WG1252003
(S) 4-Bromofluorobenzene	*93.3*			*67.0-138*		*03/18/2019 17:24*	WG1251625
(S) 4-Bromofluorobenzene	*81.3*			*67.0-138*		*03/19/2019 14:13*	WG1252003
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/18/2019 17:24*	WG1251625
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/19/2019 14:13*	WG1252003

JC 4/22/19

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	91.0		1	03/19/2019 15:42	WG1252093

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0275	1	03/19/2019 14:33	WG1252003
Acrylonitrile	U		0.00209	0.0137	1	03/18/2019 17:47	WG1251625
Benzene	0.000599 J	J	0.000440	0.00110	1	03/18/2019 17:47	WG1251625
Bromobenzene	U		0.00115	0.0137	1	03/18/2019 17:47	WG1251625
Bromodichloromethane	U		0.000866	0.00275	1	03/18/2019 17:47	WG1251625
Bromochloromethane	U		0.00124	0.00550	1	03/18/2019 17:47	WG1251625
Bromoform	U		0.00657	0.0275	1	03/18/2019 17:47	WG1251625
Bromomethane	U		0.00407	0.0137	1	03/18/2019 17:47	WG1251625
n-Butylbenzene	U		0.00422	0.0137	1	03/19/2019 14:33	WG1252003
sec-Butylbenzene	U		0.00278	0.0137	1	03/18/2019 17:47	WG1251625
tert-Butylbenzene	U		0.00170	0.00550	1	03/18/2019 17:47	WG1251625
Carbon disulfide	U		0.00446	0.0137	1	03/18/2019 17:47	WG1251625
Carbon tetrachloride	U		0.00119	0.00550	1	03/18/2019 17:47	WG1251625
Chlorobenzene	U		0.000630	0.00275	1	03/18/2019 17:47	WG1251625
Chlorodibromomethane	U		0.000495	0.00275	1	03/18/2019 17:47	WG1251625
Chloroethane	U		0.00119	0.00550	1	03/18/2019 17:47	WG1251625
Chloroform	U		0.000456	0.00275	1	03/18/2019 17:47	WG1251625
Chloromethane	U		0.00153	0.0137	1	03/18/2019 17:47	WG1251625
2-Chlorotoluene	U		0.00101	0.00275	1	03/18/2019 17:47	WG1251625
4-Chlorotoluene	U		0.00124	0.00550	1	03/18/2019 17:47	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00561	0.0275	1	03/18/2019 17:47	WG1251625
1,2-Dibromoethane	U		0.000577	0.00275	1	03/18/2019 17:47	WG1251625
Dibromomethane	U		0.00110	0.00550	1	03/18/2019 17:47	WG1251625
1,2-Dichlorobenzene	U		0.00159	0.00550	1	03/18/2019 17:47	WG1251625
1,3-Dichlorobenzene	U		0.00187	0.00550	1	03/18/2019 17:47	WG1251625
1,4-Dichlorobenzene	U		0.00217	0.00550	1	03/18/2019 17:47	WG1251625
Dichlorodifluoromethane	U		0.000899	0.00275	1	03/18/2019 17:47	WG1251625
1,1-Dichloroethane	U		0.000632	0.00275	1	03/18/2019 17:47	WG1251625
1,2-Dichloroethane	U		0.000522	0.00275	1	03/18/2019 17:47	WG1251625
1,1-Dichloroethene	0.00288		0.000550	0.00275	1	03/18/2019 17:47	WG1251625
cis-1,2-Dichloroethene	0.713		0.000759	0.00275	1	03/18/2019 17:47	WG1251625
trans-1,2-Dichloroethene	U		0.00157	0.00550	1	03/18/2019 17:47	WG1251625
1,2-Dichloropropane	U		0.00140	0.00550	1	03/18/2019 17:47	WG1251625
1,1-Dichloropropene	U		0.000770	0.00275	1	03/18/2019 17:47	WG1251625
1,3-Dichloropropane	U		0.00192	0.00550	1	03/18/2019 17:47	WG1251625
cis-1,3-Dichloropropene	U		0.000745	0.00275	1	03/18/2019 17:47	WG1251625
trans-1,3-Dichloropropene	U		0.00168	0.00550	1	03/18/2019 17:47	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00154	0.00550	1	03/18/2019 17:47	WG1251625
2,2-Dichloropropane	U		0.000872	0.00275	1	03/18/2019 17:47	WG1251625
Di-isopropyl ether	U		0.000385	0.00110	1	03/18/2019 17:47	WG1251625
Ethylbenzene	U		0.000583	0.00275	1	03/18/2019 17:47	WG1251625
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	03/19/2019 14:33	WG1252003
2-Hexanone	U		0.0110	0.0275	1	03/18/2019 17:47	WG1251625
n-Hexane	U		0.00117	0.00550	1	03/18/2019 17:47	WG1251625
Iodomethane	U		0.00665	0.0137	1	03/18/2019 17:47	WG1251625
Isopropylbenzene	U		0.000949	0.00275	1	03/18/2019 17:47	WG1251625
p-Isopropyltoluene	U		0.00256	0.00550	1	03/18/2019 17:47	WG1251625
2-Butanone (MEK)	U		0.0137	0.0275	1	03/18/2019 17:47	WG1251625
Methylene Chloride	U		0.00730	0.0275	1	03/18/2019 17:47	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	03/18/2019 17:47	WG1251625

JC 4/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	03/18/2019 17:47	WG1251625
Naphthalene	U		0.00343	0.0137	1	03/18/2019 17:47	WG1251625
n-Propylbenzene	U		0.00130	0.00550	1	03/18/2019 17:47	WG1251625
Styrene	U		0.00300	0.0137	1	03/18/2019 17:47	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000550	0.00275	1	03/18/2019 17:47	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	03/18/2019 17:47	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000742	0.00275	1	03/18/2019 17:47	WG1251625
Tetrachloroethene	0.00319		0.000770	0.00275	1	03/18/2019 17:47	WG1251625
Toluene	U		0.00137	0.00550	1	03/18/2019 17:47	WG1251625
1,2,3-Trichlorobenzene	U		0.000687	0.00275	1	03/19/2019 14:33	WG1252003
1,2,4-Trichlorobenzene	U		0.00530	0.0137	1	03/19/2019 14:33	WG1252003
1,1,1-Trichloroethane	U		0.000302	0.00275	1	03/18/2019 17:47	WG1251625
1,1,2-Trichloroethane	U		0.000971	0.00275	1	03/18/2019 17:47	WG1251625
Trichloroethene	0.0279		0.000440	0.00110	1	03/18/2019 17:47	WG1251625
Trichlorofluoromethane	U		0.000550	0.00275	1	03/18/2019 17:47	WG1251625
1,2,3-Trichloropropane	U		0.00561	0.0137	1	03/18/2019 17:47	WG1251625
1,2,4-Trimethylbenzene	U		0.00128	0.00550	1	03/18/2019 17:47	WG1251625
1,2,3-Trimethylbenzene	U		0.00126	0.00550	1	03/18/2019 17:47	WG1251625
1,3,5-Trimethylbenzene	U		0.00119	0.00550	1	03/18/2019 17:47	WG1251625
Vinyl acetate	U		0.00387	0.0137	1	03/18/2019 17:47	WG1251625
Vinyl chloride	0.00599		0.000751	0.00275	1	03/18/2019 17:47	WG1251625
Xylenes, Total	U		0.00526	0.00715	1	03/18/2019 17:47	WG1251625
(S) Toluene-d8	*96.8*			*75.0-131*		*03/18/2019 17:47*	WG1251625
(S) Toluene-d8	*94.0*			*75.0-131*		*03/19/2019 14:33*	WG1252003
(S) 4-Bromofluorobenzene	*90.7*			*67.0-138*		*03/18/2019 17:47*	WG1251625
(S) 4-Bromofluorobenzene	*81.6*			*67.0-138*		*03/19/2019 14:33*	WG1252003
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/18/2019 17:47*	WG1251625
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/19/2019 14:33*	WG1252003

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.8		1	03/19/2019 15:42	WG1252093

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0278 J	J J0	0.0160	0.0291	1	03/19/2019 14:53	WG1252003
Acrylonitrile	U		0.00221	0.0146	1	03/18/2019 18:09	WG1251625
Benzene	U		0.000466	0.00117	1	03/18/2019 18:09	WG1251625
Bromobenzene	U		0.00122	0.0146	1	03/18/2019 18:09	WG1251625
Bromodichloromethane	U		0.000919	0.00291	1	03/18/2019 18:09	WG1251625
Bromochloromethane	U		0.00132	0.00583	1	03/18/2019 18:09	WG1251625
Bromoform	U		0.00697	0.0291	1	03/18/2019 18:09	WG1251625
Bromomethane	U		0.00431	0.0146	1	03/18/2019 18:09	WG1251625
n-Butylbenzene	U		0.00448	0.0146	1	03/19/2019 14:53	WG1252003
sec-Butylbenzene	U		0.00295	0.0146	1	03/18/2019 18:09	WG1251625
tert-Butylbenzene	U		0.00181	0.00583	1	03/18/2019 18:09	WG1251625
Carbon disulfide	0.00566 J	J	0.00473	0.0146	1	03/18/2019 18:09	WG1251625
Carbon tetrachloride	U		0.00126	0.00583	1	03/18/2019 18:09	WG1251625
Chlorobenzene	U		0.000668	0.00291	1	03/18/2019 18:09	WG1251625
Chlorodibromomethane	U		0.000525	0.00291	1	03/18/2019 18:09	WG1251625
Chloroethane	U		0.00126	0.00583	1	03/18/2019 18:09	WG1251625
Chloroform	U		0.000484	0.00291	1	03/18/2019 18:09	WG1251625
Chloromethane	U		0.00162	0.0146	1	03/18/2019 18:09	WG1251625
2-Chlorotoluene	U		0.00107	0.00291	1	03/18/2019 18:09	WG1251625
4-Chlorotoluene	U		0.00132	0.00583	1	03/18/2019 18:09	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00595	0.0291	1	03/18/2019 18:09	WG1251625
1,2-Dibromoethane	U		0.000612	0.00291	1	03/18/2019 18:09	WG1251625
Dibromomethane	U		0.00117	0.00583	1	03/18/2019 18:09	WG1251625
1,2-Dichlorobenzene	U		0.00169	0.00583	1	03/18/2019 18:09	WG1251625
1,3-Dichlorobenzene	U		0.00198	0.00583	1	03/18/2019 18:09	WG1251625
1,4-Dichlorobenzene	U		0.00230	0.00583	1	03/18/2019 18:09	WG1251625
Dichlorodifluoromethane	U		0.000954	0.00291	1	03/18/2019 18:09	WG1251625
1,1-Dichloroethane	U		0.000670	0.00291	1	03/18/2019 18:09	WG1251625
1,2-Dichloroethane	U		0.000554	0.00291	1	03/18/2019 18:09	WG1251625
1,1-Dichloroethene	0.00492		0.000583	0.00291	1	03/18/2019 18:09	WG1251625
cis-1,2-Dichloroethene	2.31		0.000804	0.00291	1	03/18/2019 18:09	WG1251625
trans-1,2-Dichloroethene	0.00788		0.00167	0.00583	1	03/18/2019 18:09	WG1251625
1,2-Dichloropropane	U		0.00148	0.00583	1	03/18/2019 18:09	WG1251625
1,1-Dichloropropene	U		0.000816	0.00291	1	03/18/2019 18:09	WG1251625
1,3-Dichloropropane	U		0.00204	0.00583	1	03/18/2019 18:09	WG1251625
cis-1,3-Dichloropropene	U		0.000790	0.00291	1	03/18/2019 18:09	WG1251625
trans-1,3-Dichloropropene	U		0.00178	0.00583	1	03/18/2019 18:09	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00163	0.00583	1	03/18/2019 18:09	WG1251625
2,2-Dichloropropane	U		0.000924	0.00291	1	03/18/2019 18:09	WG1251625
Di-isopropyl ether	U		0.000408	0.00117	1	03/18/2019 18:09	WG1251625
Ethylbenzene	U		0.000618	0.00291	1	03/18/2019 18:09	WG1251625
Hexachloro-1,3-butadiene	U		0.0148	0.0291	1	03/19/2019 14:53	WG1252003
2-Hexanone	U		0.0117	0.0291	1	03/18/2019 18:09	WG1251625
n-Hexane	U		0.00124	0.00583	1	03/18/2019 18:09	WG1251625
Iodomethane	U		0.00705	0.0146	1	03/18/2019 18:09	WG1251625
Isopropylbenzene	U		0.00101	0.00291	1	03/18/2019 18:09	WG1251625
p-Isopropyltoluene	U		0.00272	0.00583	1	03/18/2019 18:09	WG1251625
2-Butanone (MEK)	U		0.0146	0.0291	1	03/18/2019 18:09	WG1251625
Methylene Chloride	U		0.00774	0.0291	1	03/18/2019 18:09	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0291	1	03/18/2019 18:09	WG1251625

JC 4/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	03/18/2019 18:09	WG1251625
Naphthalene	U		0.00364	0.0146	1	03/18/2019 18:09	WG1251625
n-Propylbenzene	U		0.00138	0.00583	1	03/18/2019 18:09	WG1251625
Styrene	U		0.00318	0.0146	1	03/18/2019 18:09	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000583	0.00291	1	03/18/2019 18:09	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000455	0.00291	1	03/18/2019 18:09	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000787	0.00291	1	03/18/2019 18:09	WG1251625
Tetrachloroethene	0.321		0.000816	0.00291	1	03/18/2019 18:09	WG1251625
Toluene	U		0.00146	0.00583	1	03/18/2019 18:09	WG1251625
1,2,3-Trichlorobenzene	U		0.000729	0.00291	1	03/19/2019 14:53	WG1252003
1,2,4-Trichlorobenzene	U		0.00562	0.0146	1	03/19/2019 14:53	WG1252003
1,1,1-Trichloroethane	U		0.000321	0.00291	1	03/18/2019 18:09	WG1251625
1,1,2-Trichloroethane	U		0.00103	0.00291	1	03/18/2019 18:09	WG1251625
Trichloroethene	0.0276		0.000466	0.00117	1	03/18/2019 18:09	WG1251625
Trichlorofluoromethane	U		0.000583	0.00291	1	03/18/2019 18:09	WG1251625
1,2,3-Trichloropropane	U		0.00595	0.0146	1	03/18/2019 18:09	WG1251625
1,2,4-Trimethylbenzene	U		0.00135	0.00583	1	03/18/2019 18:09	WG1251625
1,2,3-Trimethylbenzene	U		0.00134	0.00583	1	03/18/2019 18:09	WG1251625
1,3,5-Trimethylbenzene	U		0.00126	0.00583	1	03/18/2019 18:09	WG1251625
Vinyl acetate	U		0.00410	0.0146	1	03/18/2019 18:09	WG1251625
Vinyl chloride	0.789		0.000796	0.00291	1	03/18/2019 18:09	WG1251625
Xylenes, Total	U		0.00557	0.00758	1	03/18/2019 18:09	WG1251625
(S) Toluene-d8	*95.2*			*75.0-131*		*03/18/2019 18:09*	WG1251625
(S) Toluene-d8	*94.2*			*75.0-131*		*03/19/2019 14:53*	WG1252003
(S) 4-Bromofluorobenzene	*88.4*			*67.0-138*		*03/18/2019 18:09*	WG1251625
(S) 4-Bromofluorobenzene	*81.2*			*67.0-138*		*03/19/2019 14:53*	WG1252003
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*03/18/2019 18:09*	WG1251625
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*03/19/2019 14:53*	WG1252003

JC 4/22/19

B16D16-45

Collected date/time: 03/13/19 09:55

SAMPLE RESULTS - 07

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.6		1	03/19/2019 15:42	WG1252093

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0226 J	J J0	0.0146	0.0267	1	03/19/2019 15:13	WG1252003
Acrylonitrile	U		0.00203	0.0134	1	03/18/2019 18:31	WG1251625
Benzene	U		0.000428	0.00107	1	03/18/2019 18:31	WG1251625
Bromobenzene	U		0.00112	0.0134	1	03/18/2019 18:31	WG1251625
Bromodichloromethane	U		0.000842	0.00267	1	03/18/2019 18:31	WG1251625
Bromochloromethane	U		0.00121	0.00534	1	03/18/2019 18:31	WG1251625
Bromoform	U		0.00639	0.0267	1	03/18/2019 18:31	WG1251625
Bromomethane	U		0.00395	0.0134	1	03/18/2019 18:31	WG1251625
n-Butylbenzene	U		0.00410	0.0134	1	03/19/2019 15:13	WG1252003
sec-Butylbenzene	U		0.00270	0.0134	1	03/18/2019 18:31	WG1251625
tert-Butylbenzene	U		0.00166	0.00534	1	03/18/2019 18:31	WG1251625
Carbon disulfide	U		0.00434	0.0134	1	03/18/2019 18:31	WG1251625
Carbon tetrachloride	U		0.00115	0.00534	1	03/18/2019 18:31	WG1251625
Chlorobenzene	U		0.000612	0.00267	1	03/18/2019 18:31	WG1251625
Chlorodibromomethane	U		0.000481	0.00267	1	03/18/2019 18:31	WG1251625
Chloroethane	U		0.00115	0.00534	1	03/18/2019 18:31	WG1251625
Chloroform	U		0.000444	0.00267	1	03/18/2019 18:31	WG1251625
Chloromethane	U		0.00149	0.0134	1	03/18/2019 18:31	WG1251625
2-Chlorotoluene	U		0.000983	0.00267	1	03/18/2019 18:31	WG1251625
4-Chlorotoluene	U		0.00121	0.00534	1	03/18/2019 18:31	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00545	0.0267	1	03/18/2019 18:31	WG1251625
1,2-Dibromoethane	U		0.000561	0.00267	1	03/18/2019 18:31	WG1251625
Dibromomethane	U		0.00107	0.00534	1	03/18/2019 18:31	WG1251625
1,2-Dichlorobenzene	U		0.00155	0.00534	1	03/18/2019 18:31	WG1251625
1,3-Dichlorobenzene	U		0.00182	0.00534	1	03/18/2019 18:31	WG1251625
1,4-Dichlorobenzene	U		0.00211	0.00534	1	03/18/2019 18:31	WG1251625
Dichlorodifluoromethane	U		0.000874	0.00267	1	03/18/2019 18:31	WG1251625
1,1-Dichloroethane	U		0.000615	0.00267	1	03/18/2019 18:31	WG1251625
1,2-Dichloroethane	U		0.000508	0.00267	1	03/18/2019 18:31	WG1251625
1,1-Dichloroethene	0.00152 J	J	0.000534	0.00267	1	03/18/2019 18:31	WG1251625
cis-1,2-Dichloroethene	0.665		0.000738	0.00267	1	03/18/2019 18:31	WG1251625
trans-1,2-Dichloroethene	U		0.00153	0.00534	1	03/18/2019 18:31	WG1251625
1,2-Dichloropropane	U		0.00136	0.00534	1	03/18/2019 18:31	WG1251625
1,1-Dichloropropene	U		0.000748	0.00267	1	03/18/2019 18:31	WG1251625
1,3-Dichloropropane	U		0.00187	0.00534	1	03/18/2019 18:31	WG1251625
cis-1,3-Dichloropropene	U		0.000725	0.00267	1	03/18/2019 18:31	WG1251625
trans-1,3-Dichloropropene	U		0.00164	0.00534	1	03/18/2019 18:31	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00150	0.00534	1	03/18/2019 18:31	WG1251625
2,2-Dichloropropane	U		0.000848	0.00267	1	03/18/2019 18:31	WG1251625
Di-isopropyl ether	U		0.000374	0.00107	1	03/18/2019 18:31	WG1251625
Ethylbenzene	U		0.000567	0.00267	1	03/18/2019 18:31	WG1251625
Hexachloro-1,3-butadiene	U		0.0136	0.0267	1	03/19/2019 15:13	WG1252003
2-Hexanone	U		0.0107	0.0267	1	03/18/2019 18:31	WG1251625
n-Hexane	U		0.00113	0.00534	1	03/18/2019 18:31	WG1251625
Iodomethane	U		0.00647	0.0134	1	03/18/2019 18:31	WG1251625
Isopropylbenzene	U		0.000922	0.00267	1	03/18/2019 18:31	WG1251625
p-Isopropyltoluene	U		0.00249	0.00534	1	03/18/2019 18:31	WG1251625
2-Butanone (MEK)	0.0157 J	J J0	0.0134	0.0267	1	03/18/2019 18:31	WG1251625
Methylene Chloride	U		0.00710	0.0267	1	03/18/2019 18:31	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	03/18/2019 18:31	WG1251625

JC 4/22/19

B16D16-45

Collected date/time: 03/13/19 09:55

SAMPLE RESULTS - 07

L1079417

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000315	0.00107	1	03/18/2019 18:31	WG1251625
Naphthalene	U		0.00333	0.0134	1	03/18/2019 18:31	WG1251625
n-Propylbenzene	U		0.00126	0.00534	1	03/18/2019 18:31	WG1251625
Styrene	U		0.00292	0.0134	1	03/18/2019 18:31	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000534	0.00267	1	03/18/2019 18:31	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000417	0.00267	1	03/18/2019 18:31	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000721	0.00267	1	03/18/2019 18:31	WG1251625
Tetrachloroethene	0.598		0.000748	0.00267	1	03/18/2019 18:31	WG1251625
Toluene	U		0.00134	0.00534	1	03/18/2019 18:31	WG1251625
1,2,3-Trichlorobenzene	U		0.000668	0.00267	1	03/19/2019 15:13	WG1252003
1,2,4-Trichlorobenzene	U		0.00515	0.0134	1	03/19/2019 15:13	WG1252003
1,1,1-Trichloroethane	U		0.000294	0.00267	1	03/18/2019 18:31	WG1251625
1,1,2-Trichloroethane	U		0.000944	0.00267	1	03/18/2019 18:31	WG1251625
Trichloroethene	0.165		0.000428	0.00107	1	03/18/2019 18:31	WG1251625
Trichlorofluoromethane	U		0.000534	0.00267	1	03/18/2019 18:31	WG1251625
1,2,3-Trichloropropane	U		0.00545	0.0134	1	03/18/2019 18:31	WG1251625
1,2,4-Trimethylbenzene	U		0.00124	0.00534	1	03/18/2019 18:31	WG1251625
1,2,3-Trimethylbenzene	U		0.00123	0.00534	1	03/18/2019 18:31	WG1251625
1,3,5-Trimethylbenzene	U		0.00115	0.00534	1	03/18/2019 18:31	WG1251625
Vinyl acetate	U		0.00376	0.0134	1	03/18/2019 18:31	WG1251625
Vinyl chloride	0.0503		0.000730	0.00267	1	03/18/2019 18:31	WG1251625
Xylenes, Total	U		0.00511	0.00695	1	03/18/2019 18:31	WG1251625
(S) Toluene-d8	*95.4*			*75.0-131*		*03/18/2019 18:31*	WG1251625
(S) Toluene-d8	*92.9*			*75.0-131*		*03/19/2019 15:13*	WG1252003
(S) 4-Bromofluorobenzene	*91.3*			*67.0-138*		*03/18/2019 18:31*	WG1251625
(S) 4-Bromofluorobenzene	*82.0*			*67.0-138*		*03/19/2019 15:13*	WG1252003
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*03/18/2019 18:31*	WG1251625
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/19/2019 15:13*	WG1252003

JC 4/22/19

B16D16-50
Collected date/time: 03/13/19 10:00

SAMPLE RESULTS - 08

L1079417

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.9		1	03/19/2019 13:17	WG1252100

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0334 J	J0	0.0149	0.0272	1	03/19/2019 15:32	WG1252003
Acrylonitrile	U		0.00207	0.0136	1	03/18/2019 20:21	WG1251625
Benzene	0.000448 J	J	0.000435	0.00109	1	03/18/2019 20:21	WG1251625
Bromobenzene	U		0.00114	0.0136	1	03/18/2019 20:21	WG1251625
Bromodichloromethane	U		0.000857	0.00272	1	03/18/2019 20:21	WG1251625
Bromochloromethane	U		0.00123	0.00544	1	03/18/2019 20:21	WG1251625
Bromoform	U		0.00651	0.0272	1	03/18/2019 20:21	WG1251625
Bromomethane	U		0.00403	0.0136	1	03/18/2019 20:21	WG1251625
n-Butylbenzene	U		0.00418	0.0136	1	03/19/2019 15:32	WG1252003
sec-Butylbenzene	U		0.00275	0.0136	1	03/18/2019 20:21	WG1251625
tert-Butylbenzene	U		0.00169	0.00544	1	03/18/2019 20:21	WG1251625
Carbon disulfide	U		0.00442	0.0136	1	03/18/2019 20:21	WG1251625
Carbon tetrachloride	U		0.00118	0.00544	1	03/18/2019 20:21	WG1251625
Chlorobenzene	U		0.000623	0.00272	1	03/18/2019 20:21	WG1251625
Chlorodibromomethane	U		0.000490	0.00272	1	03/18/2019 20:21	WG1251625
Chloroethane	U		0.00118	0.00544	1	03/18/2019 20:21	WG1251625
Chloroform	U		0.000452	0.00272	1	03/18/2019 20:21	WG1251625
Chloromethane	U		0.00151	0.0136	1	03/18/2019 20:21	WG1251625
2-Chlorotoluene	U		0.00100	0.00272	1	03/18/2019 20:21	WG1251625
4-Chlorotoluene	U		0.00123	0.00544	1	03/18/2019 20:21	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00555	0.0272	1	03/18/2019 20:21	WG1251625
1,2-Dibromoethane	U		0.000571	0.00272	1	03/18/2019 20:21	WG1251625
Dibromomethane	U		0.00109	0.00544	1	03/18/2019 20:21	WG1251625
1,2-Dichlorobenzene	U		0.00158	0.00544	1	03/18/2019 20:21	WG1251625
1,3-Dichlorobenzene	U		0.00185	0.00544	1	03/18/2019 20:21	WG1251625
1,4-Dichlorobenzene	U		0.00214	0.00544	1	03/18/2019 20:21	WG1251625
Dichlorodifluoromethane	U		0.000890	0.00272	1	03/18/2019 20:21	WG1251625
1,1-Dichloroethane	U		0.000626	0.00272	1	03/18/2019 20:21	WG1251625
1,2-Dichloroethane	U		0.000517	0.00272	1	03/18/2019 20:21	WG1251625
1,1-Dichloroethene	0.000721 J	J	0.000544	0.00272	1	03/18/2019 20:21	WG1251625
cis-1,2-Dichloroethene	1.23		0.000751	0.00272	1	03/18/2019 20:21	WG1251625
trans-1,2-Dichloroethene	U		0.00156	0.00544	1	03/18/2019 20:21	WG1251625
1,2-Dichloropropane	U		0.00138	0.00544	1	03/18/2019 20:21	WG1251625
1,1-Dichloropropene	U		0.000762	0.00272	1	03/18/2019 20:21	WG1251625
1,3-Dichloropropane	U		0.00190	0.00544	1	03/18/2019 20:21	WG1251625
cis-1,3-Dichloropropene	U		0.000738	0.00272	1	03/18/2019 20:21	WG1251625
trans-1,3-Dichloropropene	U		0.00166	0.00544	1	03/18/2019 20:21	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00152	0.00544	1	03/18/2019 20:21	WG1251625
2,2-Dichloropropane	U		0.000863	0.00272	1	03/18/2019 20:21	WG1251625
Di-isopropyl ether	U		0.000381	0.00109	1	03/18/2019 20:21	WG1251625
Ethylbenzene	0.00109 J	J	0.000577	0.00272	1	03/18/2019 20:21	WG1251625
Hexachloro-1,3-butadiene	U		0.0138	0.0272	1	03/19/2019 15:32	WG1252003
2-Hexanone	U		0.0109	0.0272	1	03/18/2019 20:21	WG1251625
n-Hexane	U		0.00115	0.00544	1	03/18/2019 20:21	WG1251625
Iodomethane	U		0.00658	0.0136	1	03/18/2019 20:21	WG1251625
Isopropylbenzene	U		0.000939	0.00272	1	03/18/2019 20:21	WG1251625
p-Isopropyltoluene	U		0.00254	0.00544	1	03/18/2019 20:21	WG1251625
2-Butanone (MEK)	0.0680 J	J0	0.0136	0.0272	1	03/18/2019 20:21	WG1251625
Methylene Chloride	U		0.00722	0.0272	1	03/18/2019 20:21	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	03/18/2019 20:21	WG1251625

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000321	0.00109	1	03/18/2019 20:21	WG1251625
Naphthalene	U		0.00339	0.0136	1	03/18/2019 20:21	WG1251625
n-Propylbenzene	U		0.00128	0.00544	1	03/18/2019 20:21	WG1251625
Styrene	U		0.00297	0.0136	1	03/18/2019 20:21	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000544	0.00272	1	03/18/2019 20:21	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	03/18/2019 20:21	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000734	0.00272	1	03/18/2019 20:21	WG1251625
Tetrachloroethene	0.884		0.000762	0.00272	1	03/18/2019 20:21	WG1251625
Toluene	0.00247 J	J	0.00136	0.00544	1	03/18/2019 20:21	WG1251625
1,2,3-Trichlorobenzene	U		0.000680	0.00272	1	03/19/2019 15:32	WG1252003
1,2,4-Trichlorobenzene	U		0.00524	0.0136	1	03/19/2019 15:32	WG1252003
1,1,1-Trichloroethane	U		0.000299	0.00272	1	03/18/2019 20:21	WG1251625
1,1,2-Trichloroethane	U		0.000961	0.00272	1	03/18/2019 20:21	WG1251625
Trichloroethene	0.0610		0.000435	0.00109	1	03/18/2019 20:21	WG1251625
Trichlorofluoromethane	U		0.000544	0.00272	1	03/18/2019 20:21	WG1251625
1,2,3-Trichloropropane	U		0.00555	0.0136	1	03/18/2019 20:21	WG1251625
1,2,4-Trimethylbenzene	0.00242 U	B J	0.00126	0.00544	1	03/18/2019 20:21	WG1251625
1,2,3-Trimethylbenzene	U		0.00125	0.00544	1	03/18/2019 20:21	WG1251625
1,3,5-Trimethylbenzene	U		0.00118	0.00544	1	03/18/2019 20:21	WG1251625
Vinyl acetate	U		0.00383	0.0136	1	03/18/2019 20:21	WG1251625
Vinyl chloride	0.0421		0.000743	0.00272	1	03/18/2019 20:21	WG1251625
Xylenes, Total	U		0.00520	0.00707	1	03/18/2019 20:21	WG1251625
(S) Toluene-d8	*96.8*			*75.0-131*		*03/18/2019 20:21*	WG1251625
(S) Toluene-d8	*94.2*			*75.0-131*		*03/19/2019 15:32*	WG1252003
(S) 4-Bromofluorobenzene	*90.2*			*67.0-138*		*03/18/2019 20:21*	WG1251625
(S) 4-Bromofluorobenzene	*81.7*			*67.0-138*		*03/19/2019 15:32*	WG1252003
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/18/2019 20:21*	WG1251625
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/19/2019 15:32*	WG1252003

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.7		1	03/19/2019 13:17	WG1252100

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.110 J	J J0	0.0673	0.123	4.6	03/19/2019 15:51	WG1252003
Acrylonitrile	U		0.00933	0.0614	4.6	03/18/2019 20:43	WG1251625
Benzene	U		0.00196	0.00491	4.6	03/18/2019 20:43	WG1251625
Bromobenzene	U		0.00516	0.0614	4.6	03/18/2019 20:43	WG1251625
Bromodichloromethane	U		0.00386	0.0123	4.6	03/18/2019 20:43	WG1251625
Bromochloromethane	U		0.00555	0.0246	4.6	03/18/2019 20:43	WG1251625
Bromoform	U		0.0294	0.123	4.6	03/18/2019 20:43	WG1251625
Bromomethane	U		0.0181	0.0614	4.6	03/18/2019 20:43	WG1251625
n-Butylbenzene	U		0.0189	0.0614	4.6	03/19/2019 15:51	WG1252003
sec-Butylbenzene	U		0.0124	0.0614	4.6	03/18/2019 20:43	WG1251625
tert-Butylbenzene	U		0.00761	0.0246	4.6	03/18/2019 20:43	WG1251625
Carbon disulfide	U		0.0200	0.0614	4.6	03/18/2019 20:43	WG1251625
Carbon tetrachloride	U		0.00531	0.0246	4.6	03/18/2019 20:43	WG1251625
Chlorobenzene	U		0.00282	0.0123	4.6	03/18/2019 20:43	WG1251625
Chlorodibromomethane	U		0.00221	0.0123	4.6	03/18/2019 20:43	WG1251625
Chloroethane	U		0.00531	0.0246	4.6	03/18/2019 20:43	WG1251625
Chloroform	U		0.00204	0.0123	4.6	03/18/2019 20:43	WG1251625
Chloromethane	U		0.00682	0.0614	4.6	03/18/2019 20:43	WG1251625
2-Chlorotoluene	U		0.00452	0.0123	4.6	03/18/2019 20:43	WG1251625
4-Chlorotoluene	U		0.00555	0.0246	4.6	03/18/2019 20:43	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.0251	0.123	4.6	03/18/2019 20:43	WG1251625
1,2-Dibromoethane	U		0.00258	0.0123	4.6	03/18/2019 20:43	WG1251625
Dibromomethane	U		0.00491	0.0246	4.6	03/18/2019 20:43	WG1251625
1,2-Dichlorobenzene	U		0.00712	0.0246	4.6	03/18/2019 20:43	WG1251625
1,3-Dichlorobenzene	U		0.00835	0.0246	4.6	03/18/2019 20:43	WG1251625
1,4-Dichlorobenzene	U		0.00967	0.0246	4.6	03/18/2019 20:43	WG1251625
Dichlorodifluoromethane	U		0.00401	0.0123	4.6	03/18/2019 20:43	WG1251625
1,1-Dichloroethane	U		0.00282	0.0123	4.6	03/18/2019 20:43	WG1251625
1,2-Dichloroethane	U		0.00233	0.0123	4.6	03/18/2019 20:43	WG1251625
1,1-Dichloroethene	U		0.00246	0.0123	4.6	03/18/2019 20:43	WG1251625
cis-1,2-Dichloroethene	U		0.00338	0.0123	4.6	03/18/2019 20:43	WG1251625
trans-1,2-Dichloroethene	U		0.00702	0.0246	4.6	03/18/2019 20:43	WG1251625
1,2-Dichloropropane	U		0.00623	0.0246	4.6	03/18/2019 20:43	WG1251625
1,1-Dichloropropene	U		0.00344	0.0123	4.6	03/18/2019 20:43	WG1251625
1,3-Dichloropropane	U		0.00859	0.0246	4.6	03/18/2019 20:43	WG1251625
cis-1,3-Dichloropropene	U		0.00333	0.0123	4.6	03/18/2019 20:43	WG1251625
trans-1,3-Dichloropropene	U		0.00752	0.0246	4.6	03/18/2019 20:43	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00688	0.0246	4.6	03/18/2019 20:43	WG1251625
2,2-Dichloropropane	U		0.00390	0.0123	4.6	03/18/2019 20:43	WG1251625
Di-isopropyl ether	U		0.00172	0.00491	4.6	03/18/2019 20:43	WG1251625
Ethylbenzene	U		0.00260	0.0123	4.6	03/18/2019 20:43	WG1251625
Hexachloro-1,3-butadiene	U		0.0623	0.123	4.6	03/19/2019 15:51	WG1252003
2-Hexanone	U		0.0491	0.123	4.6	03/18/2019 20:43	WG1251625
n-Hexane	U		0.00521	0.0246	4.6	03/18/2019 20:43	WG1251625
Iodomethane	U		0.0297	0.0614	4.6	03/18/2019 20:43	WG1251625
Isopropylbenzene	U		0.00424	0.0123	4.6	03/18/2019 20:43	WG1251625
p-Isopropyltoluene	U		0.0114	0.0246	4.6	03/18/2019 20:43	WG1251625
2-Butanone (MEK)	U		0.0614	0.123	4.6	03/18/2019 20:43	WG1251625
Methylene Chloride	U		0.0326	0.123	4.6	03/18/2019 20:43	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0491	0.123	4.6	03/18/2019 20:43	WG1251625

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00145	0.00491	4.6	03/18/2019 20:43	WG1251625
Naphthalene	U		0.0154	0.0614	4.6	03/18/2019 20:43	WG1251625
n-Propylbenzene	U		0.00580	0.0246	4.6	03/18/2019 20:43	WG1251625
Styrene	U		0.0135	0.0614	4.6	03/18/2019 20:43	WG1251625
1,1,1,2-Tetrachloroethane	U		0.00246	0.0123	4.6	03/18/2019 20:43	WG1251625
1,1,2,2-Tetrachloroethane	U		0.00191	0.0123	4.6	03/18/2019 20:43	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.00331	0.0123	4.6	03/18/2019 20:43	WG1251625
Tetrachloroethene	0.00483 J	J	0.00344	0.0123	4.6	03/18/2019 20:43	WG1251625
Toluene	U		0.00614	0.0246	4.6	03/18/2019 20:43	WG1251625
1,2,3-Trichlorobenzene	U		0.00307	0.0123	4.6	03/19/2019 15:51	WG1252003
1,2,4-Trichlorobenzene	U		0.0237	0.0614	4.6	03/19/2019 15:51	WG1252003
1,1,1-Trichloroethane	U		0.00135	0.0123	4.6	03/18/2019 20:43	WG1251625
1,1,2-Trichloroethane	U		0.00433	0.0123	4.6	03/18/2019 20:43	WG1251625
Trichloroethene	U		0.00196	0.00491	4.6	03/18/2019 20:43	WG1251625
Trichlorofluoromethane	U		0.00246	0.0123	4.6	03/18/2019 20:43	WG1251625
1,2,3-Trichloropropane	U		0.0251	0.0614	4.6	03/18/2019 20:43	WG1251625
1,2,4-Trimethylbenzene	U		0.00570	0.0246	4.6	03/18/2019 20:43	WG1251625
1,2,3-Trimethylbenzene	U		0.00565	0.0246	4.6	03/18/2019 20:43	WG1251625
1,3,5-Trimethylbenzene	U		0.00531	0.0246	4.6	03/18/2019 20:43	WG1251625
Vinyl acetate	U		0.0173	0.0614	4.6	03/18/2019 20:43	WG1251625
Vinyl chloride	U		0.00335	0.0123	4.6	03/18/2019 20:43	WG1251625
Xylenes, Total	U		0.0235	0.0319	4.6	03/18/2019 20:43	WG1251625
(S) Toluene-d8	*97.9*			*75.0-131*		*03/18/2019 20:43*	WG1251625
(S) Toluene-d8	*92.7*			*75.0-131*		*03/19/2019 15:51*	WG1252003
(S) 4-Bromofluorobenzene	*94.5*			*67.0-138*		*03/18/2019 20:43*	WG1251625
(S) 4-Bromofluorobenzene	*79.6*			*67.0-138*		*03/19/2019 15:51*	WG1252003
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/18/2019 20:43*	WG1251625
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/19/2019 15:51*	WG1252003

Sample Narrative:

L1079417-09 WG1252003: Lowest possible dilution due to limited sample volume.

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.0		1	03/19/2019 13:17	WG1252100

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0192 J	J J0	0.0146	0.0266	1	03/19/2019 16:11	WG1252003
Acrylonitrile	U		0.00202	0.0133	1	03/18/2019 21:06	WG1251625
Benzene	U		0.000426	0.00106	1	03/18/2019 21:06	WG1251625
Bromobenzene	U		0.00112	0.0133	1	03/18/2019 21:06	WG1251625
Bromodichloromethane	U		0.000839	0.00266	1	03/18/2019 21:06	WG1251625
Bromochloromethane	U		0.00120	0.00532	1	03/18/2019 21:06	WG1251625
Bromoform	U		0.00636	0.0266	1	03/18/2019 21:06	WG1251625
Bromomethane	U		0.00394	0.0133	1	03/18/2019 21:06	WG1251625
n-Butylbenzene	U		0.00409	0.0133	1	03/19/2019 16:11	WG1252003
sec-Butylbenzene	U		0.00269	0.0133	1	03/18/2019 21:06	WG1251625
tert-Butylbenzene	U		0.00165	0.00532	1	03/18/2019 21:06	WG1251625
Carbon disulfide	0.00501 J	J	0.00432	0.0133	1	03/18/2019 21:06	WG1251625
Carbon tetrachloride	U		0.00115	0.00532	1	03/18/2019 21:06	WG1251625
Chlorobenzene	U		0.000610	0.00266	1	03/18/2019 21:06	WG1251625
Chlorodibromomethane	U		0.000479	0.00266	1	03/18/2019 21:06	WG1251625
Chloroethane	U		0.00115	0.00532	1	03/18/2019 21:06	WG1251625
Chloroform	U		0.000442	0.00266	1	03/18/2019 21:06	WG1251625
Chloromethane	U		0.00148	0.0133	1	03/18/2019 21:06	WG1251625
2-Chlorotoluene	U		0.000979	0.00266	1	03/18/2019 21:06	WG1251625
4-Chlorotoluene	U		0.00120	0.00532	1	03/18/2019 21:06	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00543	0.0266	1	03/18/2019 21:06	WG1251625
1,2-Dibromoethane	U		0.000559	0.00266	1	03/18/2019 21:06	WG1251625
Dibromomethane	U		0.00106	0.00532	1	03/18/2019 21:06	WG1251625
1,2-Dichlorobenzene	U		0.00154	0.00532	1	03/18/2019 21:06	WG1251625
1,3-Dichlorobenzene	U		0.00181	0.00532	1	03/18/2019 21:06	WG1251625
1,4-Dichlorobenzene	U		0.00210	0.00532	1	03/18/2019 21:06	WG1251625
Dichlorodifluoromethane	U		0.000870	0.00266	1	03/18/2019 21:06	WG1251625
1,1-Dichloroethane	U		0.000612	0.00266	1	03/18/2019 21:06	WG1251625
1,2-Dichloroethane	U		0.000505	0.00266	1	03/18/2019 21:06	WG1251625
1,1-Dichloroethene	U		0.000532	0.00266	1	03/18/2019 21:06	WG1251625
cis-1,2-Dichloroethene	0.000940 J	J	0.000734	0.00266	1	03/18/2019 21:06	WG1251625
trans-1,2-Dichloroethene	U		0.00152	0.00532	1	03/18/2019 21:06	WG1251625
1,2-Dichloropropane	U		0.00135	0.00532	1	03/18/2019 21:06	WG1251625
1,1-Dichloropropene	U		0.000745	0.00266	1	03/18/2019 21:06	WG1251625
1,3-Dichloropropane	U		0.00186	0.00532	1	03/18/2019 21:06	WG1251625
cis-1,3-Dichloropropene	U		0.000721	0.00266	1	03/18/2019 21:06	WG1251625
trans-1,3-Dichloropropene	U		0.00163	0.00532	1	03/18/2019 21:06	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00149	0.00532	1	03/18/2019 21:06	WG1251625
2,2-Dichloropropane	U		0.000844	0.00266	1	03/18/2019 21:06	WG1251625
Di-isopropyl ether	U		0.000372	0.00106	1	03/18/2019 21:06	WG1251625
Ethylbenzene	U		0.000564	0.00266	1	03/18/2019 21:06	WG1251625
Hexachloro-1,3-butadiene	U		0.0135	0.0266	1	03/19/2019 16:11	WG1252003
2-Hexanone	U		0.0106	0.0266	1	03/18/2019 21:06	WG1251625
n-Hexane	U		0.00113	0.00532	1	03/18/2019 21:06	WG1251625
Iodomethane	U		0.00644	0.0133	1	03/18/2019 21:06	WG1251625
Isopropylbenzene	U		0.000918	0.00266	1	03/18/2019 21:06	WG1251625
p-Isopropyltoluene	U		0.00248	0.00532	1	03/18/2019 21:06	WG1251625
2-Butanone (MEK)	U		0.0133	0.0266	1	03/18/2019 21:06	WG1251625
Methylene Chloride	U		0.00707	0.0266	1	03/18/2019 21:06	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0266	1	03/18/2019 21:06	WG1251625

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000314	0.00106	1	03/18/2019 21:06	WG1251625
Naphthalene	U			0.00332	0.0133	1	03/18/2019 21:06	WG1251625
n-Propylbenzene	U			0.00126	0.00532	1	03/18/2019 21:06	WG1251625
Styrene	U			0.00290	0.0133	1	03/18/2019 21:06	WG1251625
1,1,1,2-Tetrachloroethane	U			0.000532	0.00266	1	03/18/2019 21:06	WG1251625
1,1,2,2-Tetrachloroethane	U			0.000415	0.00266	1	03/18/2019 21:06	WG1251625
1,1,2-Trichlorotrifluoroethane	U			0.000718	0.00266	1	03/18/2019 21:06	WG1251625
Tetrachloroethene	0.00112	J	J	0.000745	0.00266	1	03/18/2019 21:06	WG1251625
Toluene	0.00152	J	J	0.00133	0.00532	1	03/18/2019 21:06	WG1251625
1,2,3-Trichlorobenzene	U			0.000665	0.00266	1	03/19/2019 16:11	WG1252003
1,2,4-Trichlorobenzene	U			0.00513	0.0133	1	03/19/2019 16:11	WG1252003
1,1,1-Trichloroethane	U			0.000293	0.00266	1	03/18/2019 21:06	WG1251625
1,1,2-Trichloroethane	U			0.000940	0.00266	1	03/18/2019 21:06	WG1251625
Trichloroethene	U			0.000426	0.00106	1	03/18/2019 21:06	WG1251625
Trichlorofluoromethane	U			0.000532	0.00266	1	03/18/2019 21:06	WG1251625
1,2,3-Trichloropropane	U			0.00543	0.0133	1	03/18/2019 21:06	WG1251625
1,2,4-Trimethylbenzene	0.00136	U	B J	0.00123	0.00532	1	03/18/2019 21:06	WG1251625
1,2,3-Trimethylbenzene	U			0.00122	0.00532	1	03/18/2019 21:06	WG1251625
1,3,5-Trimethylbenzene	U			0.00115	0.00532	1	03/18/2019 21:06	WG1251625
Vinyl acetate	U			0.00375	0.0133	1	03/18/2019 21:06	WG1251625
Vinyl chloride	U			0.000727	0.00266	1	03/18/2019 21:06	WG1251625
Xylenes, Total	U			0.00509	0.00692	1	03/18/2019 21:06	WG1251625
(S) Toluene-d8	*95.0*				*75.0-131*		*03/18/2019 21:06*	WG1251625
(S) Toluene-d8	*93.9*				*75.0-131*		*03/19/2019 16:11*	WG1252003
(S) 4-Bromofluorobenzene	*89.4*				*67.0-138*		*03/18/2019 21:06*	WG1251625
(S) 4-Bromofluorobenzene	*81.9*				*67.0-138*		*03/19/2019 16:11*	WG1252003
(S) 1,2-Dichloroethane-d4	*114*				*70.0-130*		*03/18/2019 21:06*	WG1251625
(S) 1,2-Dichloroethane-d4	*108*				*70.0-130*		*03/19/2019 16:11*	WG1252003

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.4		1	03/19/2019 13:17	WG1252100

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0160 J	J J0	0.0150	0.0274	1	03/19/2019 16:30	WG1252003
Acrylonitrile	U		0.00208	0.0137	1	03/18/2019 21:28	WG1251625
Benzene	U		0.000438	0.00109	1	03/18/2019 21:28	WG1251625
Bromobenzene	U		0.00115	0.0137	1	03/18/2019 21:28	WG1251625
Bromodichloromethane	U		0.000862	0.00274	1	03/18/2019 21:28	WG1251625
Bromochloromethane	U		0.00124	0.00547	1	03/18/2019 21:28	WG1251625
Bromoform	U		0.00654	0.0274	1	03/18/2019 21:28	WG1251625
Bromomethane	U		0.00405	0.0137	1	03/18/2019 21:28	WG1251625
n-Butylbenzene	U		0.00420	0.0137	1	03/19/2019 16:30	WG1252003
sec-Butylbenzene	U		0.00277	0.0137	1	03/18/2019 21:28	WG1251625
tert-Butylbenzene	U		0.00170	0.00547	1	03/18/2019 21:28	WG1251625
Carbon disulfide	U		0.00444	0.0137	1	03/18/2019 21:28	WG1251625
Carbon tetrachloride	U		0.00118	0.00547	1	03/18/2019 21:28	WG1251625
Chlorobenzene	U		0.000627	0.00274	1	03/18/2019 21:28	WG1251625
Chlorodibromomethane	U		0.000492	0.00274	1	03/18/2019 21:28	WG1251625
Chloroethane	U		0.00118	0.00547	1	03/18/2019 21:28	WG1251625
Chloroform	U		0.000454	0.00274	1	03/18/2019 21:28	WG1251625
Chloromethane	U		0.00152	0.0137	1	03/18/2019 21:28	WG1251625
2-Chlorotoluene	U		0.00101	0.00274	1	03/18/2019 21:28	WG1251625
4-Chlorotoluene	U		0.00124	0.00547	1	03/18/2019 21:28	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00558	0.0274	1	03/18/2019 21:28	WG1251625
1,2-Dibromoethane	U		0.000574	0.00274	1	03/18/2019 21:28	WG1251625
Dibromomethane	U		0.00109	0.00547	1	03/18/2019 21:28	WG1251625
1,2-Dichlorobenzene	U		0.00159	0.00547	1	03/18/2019 21:28	WG1251625
1,3-Dichlorobenzene	U		0.00186	0.00547	1	03/18/2019 21:28	WG1251625
1,4-Dichlorobenzene	U		0.00216	0.00547	1	03/18/2019 21:28	WG1251625
Dichlorodifluoromethane	U		0.000895	0.00274	1	03/18/2019 21:28	WG1251625
1,1-Dichloroethane	U		0.000629	0.00274	1	03/18/2019 21:28	WG1251625
1,2-Dichloroethane	U		0.000520	0.00274	1	03/18/2019 21:28	WG1251625
1,1-Dichloroethene	U		0.000547	0.00274	1	03/18/2019 21:28	WG1251625
cis-1,2-Dichloroethene	U		0.000755	0.00274	1	03/18/2019 21:28	WG1251625
trans-1,2-Dichloroethene	U		0.00156	0.00547	1	03/18/2019 21:28	WG1251625
1,2-Dichloropropane	U		0.00139	0.00547	1	03/18/2019 21:28	WG1251625
1,1-Dichloropropene	U		0.000766	0.00274	1	03/18/2019 21:28	WG1251625
1,3-Dichloropropane	U		0.00191	0.00547	1	03/18/2019 21:28	WG1251625
cis-1,3-Dichloropropene	U		0.000742	0.00274	1	03/18/2019 21:28	WG1251625
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	03/18/2019 21:28	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	03/18/2019 21:28	WG1251625
2,2-Dichloropropane	U		0.000868	0.00274	1	03/18/2019 21:28	WG1251625
Di-isopropyl ether	U		0.000383	0.00109	1	03/18/2019 21:28	WG1251625
Ethylbenzene	U		0.000580	0.00274	1	03/18/2019 21:28	WG1251625
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	03/19/2019 16:30	WG1252003
2-Hexanone	U		0.0109	0.0274	1	03/18/2019 21:28	WG1251625
n-Hexane	U		0.00116	0.00547	1	03/18/2019 21:28	WG1251625
Iodomethane	U		0.00662	0.0137	1	03/18/2019 21:28	WG1251625
Isopropylbenzene	U		0.000944	0.00274	1	03/18/2019 21:28	WG1251625
p-Isopropyltoluene	U		0.00255	0.00547	1	03/18/2019 21:28	WG1251625
2-Butanone (MEK)	0.0226 J	J J0	0.0137	0.0274	1	03/18/2019 21:28	WG1251625
Methylene Chloride	U		0.00727	0.0274	1	03/18/2019 21:28	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0274	1	03/18/2019 21:28	WG1251625

JC 4/22/19

B16D16-65

Collected date/time: 03/13/19 12:45

SAMPLE RESULTS - 11

L1079417

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00109	1	03/18/2019 21:28	WG1251625
Naphthalene	U		0.00341	0.0137	1	03/18/2019 21:28	WG1251625
n-Propylbenzene	U		0.00129	0.00547	1	03/18/2019 21:28	WG1251625
Styrene	U		0.00299	0.0137	1	03/18/2019 21:28	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000547	0.00274	1	03/18/2019 21:28	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000427	0.00274	1	03/18/2019 21:28	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000739	0.00274	1	03/18/2019 21:28	WG1251625
Tetrachloroethene	U		0.000766	0.00274	1	03/18/2019 21:28	WG1251625
Toluene	U		0.00137	0.00547	1	03/18/2019 21:28	WG1251625
1,2,3-Trichlorobenzene	U		0.000684	0.00274	1	03/19/2019 16:30	WG1252003
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	03/19/2019 16:30	WG1252003
1,1,1-Trichloroethane	U		0.000301	0.00274	1	03/18/2019 21:28	WG1251625
1,1,2-Trichloroethane	U		0.000966	0.00274	1	03/18/2019 21:28	WG1251625
Trichloroethene	U		0.000438	0.00109	1	03/18/2019 21:28	WG1251625
Trichlorofluoromethane	U		0.000547	0.00274	1	03/18/2019 21:28	WG1251625
1,2,3-Trichloropropane	U		0.00558	0.0137	1	03/18/2019 21:28	WG1251625
1,2,4-Trimethylbenzene	U		0.00127	0.00547	1	03/18/2019 21:28	WG1251625
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	03/18/2019 21:28	WG1251625
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	03/18/2019 21:28	WG1251625
Vinyl acetate	U		0.00385	0.0137	1	03/18/2019 21:28	WG1251625
Vinyl chloride	U		0.000747	0.00274	1	03/18/2019 21:28	WG1251625
Xylenes, Total	U		0.00523	0.00711	1	03/18/2019 21:28	WG1251625
(S) Toluene-d8	*95.4*			*75.0-131*		*03/18/2019 21:28*	WG1251625
(S) Toluene-d8	*95.3*			*75.0-131*		*03/19/2019 16:30*	WG1252003
(S) 4-Bromofluorobenzene	*92.0*			*67.0-138*		*03/18/2019 21:28*	WG1251625
(S) 4-Bromofluorobenzene	*78.4*			*67.0-138*		*03/19/2019 16:30*	WG1252003
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/18/2019 21:28*	WG1251625
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/19/2019 16:30*	WG1252003

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.2		1	03/19/2019 13:17	WG1252100

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0287 J	J0	0.0154	0.0280	1	03/19/2019 16:50	WG1252003
Acrylonitrile	U		0.00213	0.0140	1	03/18/2019 21:50	WG1251625
Benzene	0.000766 J	J	0.000448	0.00112	1	03/18/2019 21:50	WG1251625
Bromobenzene	U		0.00118	0.0140	1	03/18/2019 21:50	WG1251625
Bromodichloromethane	U		0.000883	0.00280	1	03/18/2019 21:50	WG1251625
Bromochloromethane	U		0.00127	0.00560	1	03/18/2019 21:50	WG1251625
Bromoform	U		0.00670	0.0280	1	03/18/2019 21:50	WG1251625
Bromomethane	U		0.00415	0.0140	1	03/18/2019 21:50	WG1251625
n-Butylbenzene	U		0.00430	0.0140	1	03/19/2019 16:50	WG1252003
sec-Butylbenzene	U		0.00284	0.0140	1	03/18/2019 21:50	WG1251625
tert-Butylbenzene	U		0.00174	0.00560	1	03/18/2019 21:50	WG1251625
Carbon disulfide	U		0.00455	0.0140	1	03/18/2019 21:50	WG1251625
Carbon tetrachloride	U		0.00121	0.00560	1	03/18/2019 21:50	WG1251625
Chlorobenzene	U		0.000642	0.00280	1	03/18/2019 21:50	WG1251625
Chlorodibromomethane	U		0.000504	0.00280	1	03/18/2019 21:50	WG1251625
Chloroethane	U		0.00121	0.00560	1	03/18/2019 21:50	WG1251625
Chloroform	U		0.000465	0.00280	1	03/18/2019 21:50	WG1251625
Chloromethane	U		0.00156	0.0140	1	03/18/2019 21:50	WG1251625
2-Chlorotoluene	U		0.00103	0.00280	1	03/18/2019 21:50	WG1251625
4-Chlorotoluene	U		0.00127	0.00560	1	03/18/2019 21:50	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00572	0.0280	1	03/18/2019 21:50	WG1251625
1,2-Dibromoethane	U		0.000589	0.00280	1	03/18/2019 21:50	WG1251625
Dibromomethane	U		0.00112	0.00560	1	03/18/2019 21:50	WG1251625
1,2-Dichlorobenzene	U		0.00163	0.00560	1	03/18/2019 21:50	WG1251625
1,3-Dichlorobenzene	U		0.00191	0.00560	1	03/18/2019 21:50	WG1251625
1,4-Dichlorobenzene	U		0.00221	0.00560	1	03/18/2019 21:50	WG1251625
Dichlorodifluoromethane	U		0.000917	0.00280	1	03/18/2019 21:50	WG1251625
1,1-Dichloroethane	U		0.000645	0.00280	1	03/18/2019 21:50	WG1251625
1,2-Dichloroethane	U		0.000532	0.00280	1	03/18/2019 21:50	WG1251625
1,1-Dichloroethene	U		0.000560	0.00280	1	03/18/2019 21:50	WG1251625
cis-1,2-Dichloroethene	U		0.000773	0.00280	1	03/18/2019 21:50	WG1251625
trans-1,2-Dichloroethene	U		0.00160	0.00560	1	03/18/2019 21:50	WG1251625
1,2-Dichloropropane	U		0.00142	0.00560	1	03/18/2019 21:50	WG1251625
1,1-Dichloropropene	U		0.000785	0.00280	1	03/18/2019 21:50	WG1251625
1,3-Dichloropropane	U		0.00196	0.00560	1	03/18/2019 21:50	WG1251625
cis-1,3-Dichloropropene	U		0.000760	0.00280	1	03/18/2019 21:50	WG1251625
trans-1,3-Dichloropropene	U		0.00172	0.00560	1	03/18/2019 21:50	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00157	0.00560	1	03/18/2019 21:50	WG1251625
2,2-Dichloropropane	U		0.000889	0.00280	1	03/18/2019 21:50	WG1251625
Di-isopropyl ether	U		0.000392	0.00112	1	03/18/2019 21:50	WG1251625
Ethylbenzene	U		0.000594	0.00280	1	03/18/2019 21:50	WG1251625
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	03/19/2019 16:50	WG1252003
2-Hexanone	U		0.0112	0.0280	1	03/18/2019 21:50	WG1251625
n-Hexane	U		0.00119	0.00560	1	03/18/2019 21:50	WG1251625
Iodomethane	U		0.00678	0.0140	1	03/18/2019 21:50	WG1251625
Isopropylbenzene	U		0.000967	0.00280	1	03/18/2019 21:50	WG1251625
p-Isopropyltoluene	U		0.00261	0.00560	1	03/18/2019 21:50	WG1251625 JC 4/22/19
2-Butanone (MEK)	0.0212 J	J J0	0.0140	0.0280	1	03/18/2019 21:50	WG1251625
Methylene Chloride	U		0.00744	0.0280	1	03/18/2019 21:50	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	03/18/2019 21:50	WG1251625

B16D16-70

Collected date/time: 03/13/19 12:47

SAMPLE RESULTS - 12

L1079417

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	03/18/2019 21:50	WG1251625
Naphthalene	U		0.00350	0.0140	1	03/18/2019 21:50	WG1251625
n-Propylbenzene	U		0.00132	0.00560	1	03/18/2019 21:50	WG1251625
Styrene	U		0.00306	0.0140	1	03/18/2019 21:50	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000560	0.00280	1	03/18/2019 21:50	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000437	0.00280	1	03/18/2019 21:50	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000757	0.00280	1	03/18/2019 21:50	WG1251625
Tetrachloroethene	U		0.000785	0.00280	1	03/18/2019 21:50	WG1251625
Toluene	0.00207 J	J	0.00140	0.00560	1	03/18/2019 21:50	WG1251625
1,2,3-Trichlorobenzene	U		0.000701	0.00280	1	03/19/2019 16:50	WG1252003
1,2,4-Trichlorobenzene	U		0.00540	0.0140	1	03/19/2019 16:50	WG1252003
1,1,1-Trichloroethane	U		0.000308	0.00280	1	03/18/2019 21:50	WG1251625
1,1,2-Trichloroethane	U		0.000990	0.00280	1	03/18/2019 21:50	WG1251625
Trichloroethene	U		0.000448	0.00112	1	03/18/2019 21:50	WG1251625
Trichlorofluoromethane	U		0.000560	0.00280	1	03/18/2019 21:50	WG1251625
1,2,3-Trichloropropane	U		0.00572	0.0140	1	03/18/2019 21:50	WG1251625
1,2,4-Trimethylbenzene	0.00140 U	B J	0.00130	0.00560	1	03/18/2019 21:50	WG1251625
1,2,3-Trimethylbenzene	U		0.00129	0.00560	1	03/18/2019 21:50	WG1251625
1,3,5-Trimethylbenzene	U		0.00121	0.00560	1	03/18/2019 21:50	WG1251625
Vinyl acetate	U		0.00395	0.0140	1	03/18/2019 21:50	WG1251625
Vinyl chloride	U		0.000766	0.00280	1	03/18/2019 21:50	WG1251625
Xylenes, Total	U		0.00536	0.00729	1	03/18/2019 21:50	WG1251625
(S) Toluene-d8	*94.8*			*75.0-131*		*03/18/2019 21:50*	WG1251625
(S) Toluene-d8	*94.2*			*75.0-131*		*03/19/2019 16:50*	WG1252003
(S) 4-Bromofluorobenzene	*92.3*			*67.0-138*		*03/18/2019 21:50*	WG1251625
(S) 4-Bromofluorobenzene	*81.0*			*67.0-138*		*03/19/2019 16:50*	WG1252003
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/18/2019 21:50*	WG1251625
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/19/2019 16:50*	WG1252003

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.1		1	03/19/2019 13:17	WG1252100

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0346 J	J0	0.0150	0.0274	1	03/19/2019 17:09	WG1252003
Acrylonitrile	U		0.00209	0.0137	1	03/18/2019 22:13	WG1251625
Benzene	0.000674 J	J	0.000439	0.00110	1	03/18/2019 22:13	WG1251625
Bromobenzene	U		0.00115	0.0137	1	03/18/2019 22:13	WG1251625
Bromodichloromethane	U		0.000865	0.00274	1	03/18/2019 22:13	WG1251625
Bromochloromethane	U		0.00124	0.00549	1	03/18/2019 22:13	WG1251625
Bromoform	U		0.00657	0.0274	1	03/18/2019 22:13	WG1251625
Bromomethane	U		0.00406	0.0137	1	03/18/2019 22:13	WG1251625
n-Butylbenzene	U		0.00422	0.0137	1	03/19/2019 17:09	WG1252003
sec-Butylbenzene	U		0.00278	0.0137	1	03/18/2019 22:13	WG1251625
tert-Butylbenzene	U		0.00170	0.00549	1	03/18/2019 22:13	WG1251625
Carbon disulfide	U		0.00446	0.0137	1	03/18/2019 22:13	WG1251625
Carbon tetrachloride	U		0.00119	0.00549	1	03/18/2019 22:13	WG1251625
Chlorobenzene	U		0.000629	0.00274	1	03/18/2019 22:13	WG1251625
Chlorodibromomethane	U		0.000494	0.00274	1	03/18/2019 22:13	WG1251625
Chloroethane	U		0.00119	0.00549	1	03/18/2019 22:13	WG1251625
Chloroform	U		0.000456	0.00274	1	03/18/2019 22:13	WG1251625
Chloromethane	U		0.00153	0.0137	1	03/18/2019 22:13	WG1251625
2-Chlorotoluene	U		0.00101	0.00274	1	03/18/2019 22:13	WG1251625
4-Chlorotoluene	U		0.00124	0.00549	1	03/18/2019 22:13	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00560	0.0274	1	03/18/2019 22:13	WG1251625
1,2-Dibromoethane	U		0.000576	0.00274	1	03/18/2019 22:13	WG1251625
Dibromomethane	U		0.00110	0.00549	1	03/18/2019 22:13	WG1251625
1,2-Dichlorobenzene	U		0.00159	0.00549	1	03/18/2019 22:13	WG1251625
1,3-Dichlorobenzene	U		0.00187	0.00549	1	03/18/2019 22:13	WG1251625
1,4-Dichlorobenzene	U		0.00216	0.00549	1	03/18/2019 22:13	WG1251625
Dichlorodifluoromethane	U		0.000898	0.00274	1	03/18/2019 22:13	WG1251625
1,1-Dichloroethane	U		0.000631	0.00274	1	03/18/2019 22:13	WG1251625
1,2-Dichloroethane	U		0.000521	0.00274	1	03/18/2019 22:13	WG1251625
1,1-Dichloroethene	U		0.000549	0.00274	1	03/18/2019 22:13	WG1251625
cis-1,2-Dichloroethene	U		0.000758	0.00274	1	03/18/2019 22:13	WG1251625
trans-1,2-Dichloroethene	U		0.00157	0.00549	1	03/18/2019 22:13	WG1251625
1,2-Dichloropropane	U		0.00139	0.00549	1	03/18/2019 22:13	WG1251625
1,1-Dichloropropene	U		0.000769	0.00274	1	03/18/2019 22:13	WG1251625
1,3-Dichloropropane	U		0.00192	0.00549	1	03/18/2019 22:13	WG1251625
cis-1,3-Dichloropropene	U		0.000744	0.00274	1	03/18/2019 22:13	WG1251625
trans-1,3-Dichloropropene	U		0.00168	0.00549	1	03/18/2019 22:13	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	03/18/2019 22:13	WG1251625
2,2-Dichloropropane	U		0.000871	0.00274	1	03/18/2019 22:13	WG1251625
Di-isopropyl ether	U		0.000384	0.00110	1	03/18/2019 22:13	WG1251625
Ethylbenzene	U		0.000582	0.00274	1	03/18/2019 22:13	WG1251625
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	03/19/2019 17:09	WG1252003
2-Hexanone	U		0.0110	0.0274	1	03/18/2019 22:13	WG1251625
n-Hexane	U		0.00116	0.00549	1	03/18/2019 22:13	WG1251625
Iodomethane	U		0.00664	0.0137	1	03/18/2019 22:13	WG1251625
Isopropylbenzene	U		0.000947	0.00274	1	03/18/2019 22:13	WG1251625
p-Isopropyltoluene	U		0.00256	0.00549	1	03/18/2019 22:13	WG1251625
2-Butanone (MEK)	0.0215 J	J J0	0.0137	0.0274	1	03/18/2019 22:13	WG1251625
Methylene Chloride	U		0.00729	0.0274	1	03/18/2019 22:13	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	03/18/2019 22:13	WG1251625

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	03/18/2019 22:13	WG1251625
Naphthalene	U		0.00343	0.0137	1	03/18/2019 22:13	WG1251625
n-Propylbenzene	U		0.00130	0.00549	1	03/18/2019 22:13	WG1251625
Styrene	U		0.00300	0.0137	1	03/18/2019 22:13	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000549	0.00274	1	03/18/2019 22:13	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000428	0.00274	1	03/18/2019 22:13	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000741	0.00274	1	03/18/2019 22:13	WG1251625
Tetrachloroethene	U		0.000769	0.00274	1	03/18/2019 22:13	WG1251625
Toluene	0.00359 J	J	0.00137	0.00549	1	03/18/2019 22:13	WG1251625
1,2,3-Trichlorobenzene	U		0.000686	0.00274	1	03/19/2019 17:09	WG1252003
1,2,4-Trichlorobenzene	U		0.00529	0.0137	1	03/19/2019 17:09	WG1252003
1,1,1-Trichloroethane	U		0.000302	0.00274	1	03/18/2019 22:13	WG1251625
1,1,2-Trichloroethane	U		0.000969	0.00274	1	03/18/2019 22:13	WG1251625
Trichloroethene	U		0.000439	0.00110	1	03/18/2019 22:13	WG1251625
Trichlorofluoromethane	U		0.000549	0.00274	1	03/18/2019 22:13	WG1251625
1,2,3-Trichloropropane	U		0.00560	0.0137	1	03/18/2019 22:13	WG1251625
1,2,4-Trimethylbenzene	U		0.00127	0.00549	1	03/18/2019 22:13	WG1251625
1,2,3-Trimethylbenzene	U		0.00126	0.00549	1	03/18/2019 22:13	WG1251625
1,3,5-Trimethylbenzene	U		0.00119	0.00549	1	03/18/2019 22:13	WG1251625
Vinyl acetate	U		0.00386	0.0137	1	03/18/2019 22:13	WG1251625
Vinyl chloride	U		0.000750	0.00274	1	03/18/2019 22:13	WG1251625
Xylenes, Total	U		0.00525	0.00714	1	03/18/2019 22:13	WG1251625
(S) Toluene-d8	*96.3*			*75.0-131*		*03/18/2019 22:13*	WG1251625
(S) Toluene-d8	*94.3*			*75.0-131*		*03/19/2019 17:09*	WG1252003
(S) 4-Bromofluorobenzene	*96.0*			*67.0-138*		*03/18/2019 22:13*	WG1251625
(S) 4-Bromofluorobenzene	*80.0*			*67.0-138*		*03/19/2019 17:09*	WG1252003
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*03/18/2019 22:13*	WG1251625
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/19/2019 17:09*	WG1252003

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.6		1	03/19/2019 13:17	WG1252100

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0153	0.0279	1	03/19/2019 17:29	WG1252003
Acrylonitrile	U		0.00212	0.0139	1	03/18/2019 22:35	WG1251625
Benzene	U		0.000446	0.00112	1	03/18/2019 22:35	WG1251625
Bromobenzene	U		0.00117	0.0139	1	03/18/2019 22:35	WG1251625
Bromodichloromethane	U		0.000879	0.00279	1	03/18/2019 22:35	WG1251625
Bromochloromethane	U		0.00126	0.00558	1	03/18/2019 22:35	WG1251625
Bromoform	U		0.00667	0.0279	1	03/18/2019 22:35	WG1251625
Bromomethane	U		0.00413	0.0139	1	03/18/2019 22:35	WG1251625
n-Butylbenzene	U		0.00428	0.0139	1	03/19/2019 17:29	WG1252003
sec-Butylbenzene	U		0.00282	0.0139	1	03/18/2019 22:35	WG1251625
tert-Butylbenzene	U		0.00173	0.00558	1	03/18/2019 22:35	WG1251625
Carbon disulfide	U		0.00453	0.0139	1	03/18/2019 22:35	WG1251625
Carbon tetrachloride	U		0.00120	0.00558	1	03/18/2019 22:35	WG1251625
Chlorobenzene	U		0.000639	0.00279	1	03/18/2019 22:35	WG1251625
Chlorodibromomethane	U		0.000502	0.00279	1	03/18/2019 22:35	WG1251625
Chloroethane	U		0.00120	0.00558	1	03/18/2019 22:35	WG1251625
Chloroform	U		0.000463	0.00279	1	03/18/2019 22:35	WG1251625
Chloromethane	U		0.00155	0.0139	1	03/18/2019 22:35	WG1251625
2-Chlorotoluene	U		0.00103	0.00279	1	03/18/2019 22:35	WG1251625
4-Chlorotoluene	U		0.00126	0.00558	1	03/18/2019 22:35	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00569	0.0279	1	03/18/2019 22:35	WG1251625
1,2-Dibromoethane	U		0.000586	0.00279	1	03/18/2019 22:35	WG1251625
Dibromomethane	U		0.00112	0.00558	1	03/18/2019 22:35	WG1251625
1,2-Dichlorobenzene	U		0.00162	0.00558	1	03/18/2019 22:35	WG1251625
1,3-Dichlorobenzene	U		0.00190	0.00558	1	03/18/2019 22:35	WG1251625
1,4-Dichlorobenzene	U		0.00220	0.00558	1	03/18/2019 22:35	WG1251625
Dichlorodifluoromethane	U		0.000913	0.00279	1	03/18/2019 22:35	WG1251625
1,1-Dichloroethane	U		0.000642	0.00279	1	03/18/2019 22:35	WG1251625
1,2-Dichloroethane	U		0.000530	0.00279	1	03/18/2019 22:35	WG1251625
1,1-Dichloroethene	U		0.000558	0.00279	1	03/18/2019 22:35	WG1251625
cis-1,2-Dichloroethene	U		0.000770	0.00279	1	03/18/2019 22:35	WG1251625
trans-1,2-Dichloroethene	U		0.00160	0.00558	1	03/18/2019 22:35	WG1251625
1,2-Dichloropropane	U		0.00142	0.00558	1	03/18/2019 22:35	WG1251625
1,1-Dichloropropene	U		0.000781	0.00279	1	03/18/2019 22:35	WG1251625
1,3-Dichloropropane	U		0.00195	0.00558	1	03/18/2019 22:35	WG1251625
cis-1,3-Dichloropropene	U		0.000756	0.00279	1	03/18/2019 22:35	WG1251625
trans-1,3-Dichloropropene	U		0.00171	0.00558	1	03/18/2019 22:35	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00156	0.00558	1	03/18/2019 22:35	WG1251625
2,2-Dichloropropane	U		0.000885	0.00279	1	03/18/2019 22:35	WG1251625
Di-isopropyl ether	U		0.000390	0.00112	1	03/18/2019 22:35	WG1251625
Ethylbenzene	U		0.000591	0.00279	1	03/18/2019 22:35	WG1251625
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	03/19/2019 17:29	WG1252003
2-Hexanone	U		0.0112	0.0279	1	03/18/2019 22:35	WG1251625
n-Hexane	U		0.00118	0.00558	1	03/18/2019 22:35	WG1251625
Iodomethane	U		0.00675	0.0139	1	03/18/2019 22:35	WG1251625
Isopropylbenzene	U		0.000963	0.00279	1	03/18/2019 22:35	WG1251625
p-Isopropyltoluene	U		0.00260	0.00558	1	03/18/2019 22:35	WG1251625
2-Butanone (MEK)	0.0147 J	J J0	0.0139	0.0279	1	03/18/2019 22:35	WG1251625
Methylene Chloride	U		0.00741	0.0279	1	03/18/2019 22:35	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	03/18/2019 22:35	WG1251625

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00112	1	03/18/2019 22:35	WG1251625
Naphthalene	U		0.00348	0.0139	1	03/18/2019 22:35	WG1251625
n-Propylbenzene	U		0.00132	0.00558	1	03/18/2019 22:35	WG1251625
Styrene	U		0.00305	0.0139	1	03/18/2019 22:35	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000558	0.00279	1	03/18/2019 22:35	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	03/18/2019 22:35	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000753	0.00279	1	03/18/2019 22:35	WG1251625
Tetrachloroethene	U		0.000781	0.00279	1	03/18/2019 22:35	WG1251625
Toluene	U		0.00139	0.00558	1	03/18/2019 22:35	WG1251625
1,2,3-Trichlorobenzene	U		0.000697	0.00279	1	03/19/2019 17:29	WG1252003
1,2,4-Trichlorobenzene	U		0.00538	0.0139	1	03/19/2019 17:29	WG1252003
1,1,1-Trichloroethane	U		0.000307	0.00279	1	03/18/2019 22:35	WG1251625
1,1,2-Trichloroethane	U		0.000985	0.00279	1	03/18/2019 22:35	WG1251625
Trichloroethene	U		0.000446	0.00112	1	03/18/2019 22:35	WG1251625
Trichlorofluoromethane	U		0.000558	0.00279	1	03/18/2019 22:35	WG1251625
1,2,3-Trichloropropane	U		0.00569	0.0139	1	03/18/2019 22:35	WG1251625
1,2,4-Trimethylbenzene	U		0.00129	0.00558	1	03/18/2019 22:35	WG1251625
1,2,3-Trimethylbenzene	U		0.00128	0.00558	1	03/18/2019 22:35	WG1251625
1,3,5-Trimethylbenzene	U		0.00120	0.00558	1	03/18/2019 22:35	WG1251625
Vinyl acetate	U		0.00393	0.0139	1	03/18/2019 22:35	WG1251625
Vinyl chloride	U		0.000762	0.00279	1	03/18/2019 22:35	WG1251625
Xylenes, Total	U		0.00533	0.00725	1	03/18/2019 22:35	WG1251625
(S) Toluene-d8	*98.2*			*75.0-131*		*03/18/2019 22:35*	WG1251625
(S) Toluene-d8	*94.1*			*75.0-131*		*03/19/2019 17:29*	WG1252003
(S) 4-Bromofluorobenzene	*89.2*			*67.0-138*		*03/18/2019 22:35*	WG1251625
(S) 4-Bromofluorobenzene	*79.1*			*67.0-138*		*03/19/2019 17:29*	WG1252003
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/18/2019 22:35*	WG1251625
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/19/2019 17:29*	WG1252003

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B16D16-85

Collected date/time: 03/13/19 13:00

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.1		1	03/19/2019 13:17	WG1252100

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0289	J	J0	0.0152	0.0277	1	03/19/2019 17:48	WG1252003
Acrylonitrile	U			0.00211	0.0139	1	03/18/2019 22:57	WG1251625
Benzene	0.000468	J	J	0.000444	0.00111	1	03/18/2019 22:57	WG1251625
Bromobenzene	U			0.00116	0.0139	1	03/18/2019 22:57	WG1251625
Bromodichloromethane	U			0.000874	0.00277	1	03/18/2019 22:57	WG1251625
Bromochloromethane	U			0.00125	0.00555	1	03/18/2019 22:57	WG1251625
Bromoform	U			0.00663	0.0277	1	03/18/2019 22:57	WG1251625
Bromomethane	U			0.00410	0.0139	1	03/18/2019 22:57	WG1251625
n-Butylbenzene	U			0.00426	0.0139	1	03/19/2019 17:48	WG1252003
sec-Butylbenzene	U			0.00281	0.0139	1	03/18/2019 22:57	WG1251625
tert-Butylbenzene	U			0.00172	0.00555	1	03/18/2019 22:57	WG1251625
Carbon disulfide	U			0.00450	0.0139	1	03/18/2019 22:57	WG1251625
Carbon tetrachloride	U			0.00120	0.00555	1	03/18/2019 22:57	WG1251625
Chlorobenzene	U			0.000636	0.00277	1	03/18/2019 22:57	WG1251625
Chlorodibromomethane	U			0.000499	0.00277	1	03/18/2019 22:57	WG1251625
Chloroethane	U			0.00120	0.00555	1	03/18/2019 22:57	WG1251625
Chloroform	0.000618	J	J	0.000460	0.00277	1	03/18/2019 22:57	WG1251625
Chloromethane	U			0.00154	0.0139	1	03/18/2019 22:57	WG1251625
2-Chlorotoluene	U			0.00102	0.00277	1	03/18/2019 22:57	WG1251625
4-Chlorotoluene	U			0.00125	0.00555	1	03/18/2019 22:57	WG1251625
1,2-Dibromo-3-Chloropropane	U			0.00566	0.0277	1	03/18/2019 22:57	WG1251625
1,2-Dibromoethane	U			0.000582	0.00277	1	03/18/2019 22:57	WG1251625
Dibromomethane	U			0.00111	0.00555	1	03/18/2019 22:57	WG1251625
1,2-Dichlorobenzene	U			0.00161	0.00555	1	03/18/2019 22:57	WG1251625
1,3-Dichlorobenzene	U			0.00189	0.00555	1	03/18/2019 22:57	WG1251625
1,4-Dichlorobenzene	U			0.00219	0.00555	1	03/18/2019 22:57	WG1251625
Dichlorodifluoromethane	U			0.000907	0.00277	1	03/18/2019 22:57	WG1251625
1,1-Dichloroethane	U			0.000638	0.00277	1	03/18/2019 22:57	WG1251625
1,2-Dichloroethane	U			0.000527	0.00277	1	03/18/2019 22:57	WG1251625
1,1-Dichloroethene	U			0.000555	0.00277	1	03/18/2019 22:57	WG1251625
cis-1,2-Dichloroethene	U			0.000765	0.00277	1	03/18/2019 22:57	WG1251625
trans-1,2-Dichloroethene	U			0.00159	0.00555	1	03/18/2019 22:57	WG1251625
1,2-Dichloropropane	U			0.00141	0.00555	1	03/18/2019 22:57	WG1251625
1,1-Dichloropropene	U			0.000776	0.00277	1	03/18/2019 22:57	WG1251625
1,3-Dichloropropane	U			0.00194	0.00555	1	03/18/2019 22:57	WG1251625
cis-1,3-Dichloropropene	U			0.000752	0.00277	1	03/18/2019 22:57	WG1251625
trans-1,3-Dichloropropene	U			0.00170	0.00555	1	03/18/2019 22:57	WG1251625
trans-1,4-Dichloro-2-butene	U			0.00155	0.00555	1	03/18/2019 22:57	WG1251625
2,2-Dichloropropane	U			0.000880	0.00277	1	03/18/2019 22:57	WG1251625
Di-isopropyl ether	U			0.000388	0.00111	1	03/18/2019 22:57	WG1251625
Ethylbenzene	U			0.000588	0.00277	1	03/18/2019 22:57	WG1251625
Hexachloro-1,3-butadiene	U			0.0141	0.0277	1	03/19/2019 17:48	WG1252003
2-Hexanone	U			0.0111	0.0277	1	03/18/2019 22:57	WG1251625
n-Hexane	U			0.00118	0.00555	1	03/18/2019 22:57	WG1251625
Iodomethane	U			0.00671	0.0139	1	03/18/2019 22:57	WG1251625
Isopropylbenzene	U			0.000957	0.00277	1	03/18/2019 22:57	WG1251625
p-Isopropyltoluene	U			0.00258	0.00555	1	03/18/2019 22:57	WG1251625
2-Butanone (MEK)	0.0236	J	J J0	0.0139	0.0277	1	03/18/2019 22:57	WG1251625
Methylene Chloride	U			0.00737	0.0277	1	03/18/2019 22:57	WG1251625
4-Methyl-2-pentanone (MIBK)	U			0.0111	0.0277	1	03/18/2019 22:57	WG1251625

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	03/18/2019 22:57	WG1251625
Naphthalene	U		0.00346	0.0139	1	03/18/2019 22:57	WG1251625
n-Propylbenzene	U		0.00131	0.00555	1	03/18/2019 22:57	WG1251625
Styrene	U		0.00303	0.0139	1	03/18/2019 22:57	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000555	0.00277	1	03/18/2019 22:57	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000433	0.00277	1	03/18/2019 22:57	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000749	0.00277	1	03/18/2019 22:57	WG1251625
Tetrachloroethene	U		0.000776	0.00277	1	03/18/2019 22:57	WG1251625
Toluene	U		0.00139	0.00555	1	03/18/2019 22:57	WG1251625
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	03/19/2019 17:48	WG1252003
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	03/19/2019 17:48	WG1252003
1,1,1-Trichloroethane	U		0.000305	0.00277	1	03/18/2019 22:57	WG1251625
1,1,2-Trichloroethane	U		0.000979	0.00277	1	03/18/2019 22:57	WG1251625
Trichloroethene	U		0.000444	0.00111	1	03/18/2019 22:57	WG1251625
Trichlorofluoromethane	U		0.000555	0.00277	1	03/18/2019 22:57	WG1251625
1,2,3-Trichloropropane	U		0.00566	0.0139	1	03/18/2019 22:57	WG1251625
1,2,4-Trimethylbenzene	U		0.00129	0.00555	1	03/18/2019 22:57	WG1251625
1,2,3-Trimethylbenzene	U		0.00128	0.00555	1	03/18/2019 22:57	WG1251625
1,3,5-Trimethylbenzene	U		0.00120	0.00555	1	03/18/2019 22:57	WG1251625
Vinyl acetate	U		0.00390	0.0139	1	03/18/2019 22:57	WG1251625
Vinyl chloride	U		0.000758	0.00277	1	03/18/2019 22:57	WG1251625
Xylenes, Total	U		0.00530	0.00721	1	03/18/2019 22:57	WG1251625
(S) Toluene-d8	*94.4*			*75.0-131*		*03/18/2019 22:57*	WG1251625
(S) Toluene-d8	*93.1*			*75.0-131*		*03/19/2019 17:48*	WG1252003
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*		*03/18/2019 22:57*	WG1251625
(S) 4-Bromofluorobenzene	*80.5*			*67.0-138*		*03/19/2019 17:48*	WG1252003
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/18/2019 22:57*	WG1251625
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/19/2019 17:48*	WG1252003

JC 4/22/19

B16D16-90

Collected date/time: 03/13/19 14:35

SAMPLE RESULTS - 16

L1079417

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	03/19/2019 13:17	WG1252100

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0155	0.0282	1	03/19/2019 18:08	WG1252003	
Acrylonitrile	U		0.00215	0.0141	1	03/18/2019 23:19	WG1251625	
Benzene	U		0.000452	0.00113	1	03/18/2019 23:19	WG1251625	
Bromobenzene	U		0.00119	0.0141	1	03/18/2019 23:19	WG1251625	
Bromodichloromethane	U		0.000890	0.00282	1	03/18/2019 23:19	WG1251625	
Bromochloromethane	U		0.00128	0.00565	1	03/18/2019 23:19	WG1251625	
Bromoform	U		0.00675	0.0282	1	03/18/2019 23:19	WG1251625	
Bromomethane	U		0.00418	0.0141	1	03/18/2019 23:19	WG1251625	
n-Butylbenzene	U		0.00434	0.0141	1	03/19/2019 18:08	WG1252003	
sec-Butylbenzene	U		0.00286	0.0141	1	03/18/2019 23:19	WG1251625	
tert-Butylbenzene	U		0.00175	0.00565	1	03/18/2019 23:19	WG1251625	
Carbon disulfide	U		0.00459	0.0141	1	03/18/2019 23:19	WG1251625	
Carbon tetrachloride	U		0.00122	0.00565	1	03/18/2019 23:19	WG1251625	
Chlorobenzene	U		0.000647	0.00282	1	03/18/2019 23:19	WG1251625	
Chlorodibromomethane	U		0.000508	0.00282	1	03/18/2019 23:19	WG1251625	
Chloroethane	U		0.00122	0.00565	1	03/18/2019 23:19	WG1251625	
Chloroform	U		0.000469	0.00282	1	03/18/2019 23:19	WG1251625	
Chloromethane	U		0.00157	0.0141	1	03/18/2019 23:19	WG1251625	
2-Chlorotoluene	U		0.00104	0.00282	1	03/18/2019 23:19	WG1251625	
4-Chlorotoluene	U		0.00128	0.00565	1	03/18/2019 23:19	WG1251625	
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0282	1	03/18/2019 23:19	WG1251625	
1,2-Dibromoethane	U		0.000593	0.00282	1	03/18/2019 23:19	WG1251625	
Dibromomethane	U		0.00113	0.00565	1	03/18/2019 23:19	WG1251625	
1,2-Dichlorobenzene	U		0.00164	0.00565	1	03/18/2019 23:19	WG1251625	
1,3-Dichlorobenzene	U		0.00192	0.00565	1	03/18/2019 23:19	WG1251625	
1,4-Dichlorobenzene	U		0.00223	0.00565	1	03/18/2019 23:19	WG1251625	
Dichlorodifluoromethane	U		0.000924	0.00282	1	03/18/2019 23:19	WG1251625	
1,1-Dichloroethane	U		0.000649	0.00282	1	03/18/2019 23:19	WG1251625	
1,2-Dichloroethane	U		0.000536	0.00282	1	03/18/2019 23:19	WG1251625	
1,1-Dichloroethene	U		0.000565	0.00282	1	03/18/2019 23:19	WG1251625	
cis-1,2-Dichloroethene	U		0.000779	0.00282	1	03/18/2019 23:19	WG1251625	
trans-1,2-Dichloroethene	U		0.00162	0.00565	1	03/18/2019 23:19	WG1251625	
1,2-Dichloropropane	U		0.00143	0.00565	1	03/18/2019 23:19	WG1251625	
1,1-Dichloropropene	U		0.000791	0.00282	1	03/18/2019 23:19	WG1251625	
1,3-Dichloropropane	U		0.00198	0.00565	1	03/18/2019 23:19	WG1251625	
cis-1,3-Dichloropropene	U		0.000766	0.00282	1	03/18/2019 23:19	WG1251625	
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	03/18/2019 23:19	WG1251625	
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	03/18/2019 23:19	WG1251625	
2,2-Dichloropropane	U		0.000896	0.00282	1	03/18/2019 23:19	WG1251625	
Di-isopropyl ether	U		0.000395	0.00113	1	03/18/2019 23:19	WG1251625	
Ethylbenzene	U		0.000599	0.00282	1	03/18/2019 23:19	WG1251625	
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	03/19/2019 18:08	WG1252003	
2-Hexanone	U		0.0113	0.0282	1	03/18/2019 23:19	WG1251625	
n-Hexane	U		0.00120	0.00565	1	03/18/2019 23:19	WG1251625	
Iodomethane	U		0.00683	0.0141	1	03/18/2019 23:19	WG1251625	
Isopropylbenzene	U		0.000975	0.00282	1	03/18/2019 23:19	WG1251625	
p-Isopropyltoluene	U		0.00263	0.00565	1	03/18/2019 23:19	WG1251625	
2-Butanone (MEK)	0.0165 J	J J0	0.0141	0.0282	1	03/18/2019 23:19	WG1251625	JC 4/22/19
Methylene Chloride	U		0.00750	0.0282	1	03/18/2019 23:19	WG1251625	
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	03/18/2019 23:19	WG1251625	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	03/18/2019 23:19	WG1251625
Naphthalene	U		0.00352	0.0141	1	03/18/2019 23:19	WG1251625
n-Propylbenzene	U		0.00133	0.00565	1	03/18/2019 23:19	WG1251625
Styrene	U		0.00308	0.0141	1	03/18/2019 23:19	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000565	0.00282	1	03/18/2019 23:19	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000440	0.00282	1	03/18/2019 23:19	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000762	0.00282	1	03/18/2019 23:19	WG1251625
Tetrachloroethene	U		0.000791	0.00282	1	03/18/2019 23:19	WG1251625
Toluene	U		0.00141	0.00565	1	03/18/2019 23:19	WG1251625
1,2,3-Trichlorobenzene	U		0.000706	0.00282	1	03/19/2019 18:08	WG1252003
1,2,4-Trichlorobenzene	U		0.00544	0.0141	1	03/19/2019 18:08	WG1252003
1,1,1-Trichloroethane	U		0.000311	0.00282	1	03/18/2019 23:19	WG1251625
1,1,2-Trichloroethane	U		0.000997	0.00282	1	03/18/2019 23:19	WG1251625
Trichloroethene	U		0.000452	0.00113	1	03/18/2019 23:19	WG1251625
Trichlorofluoromethane	U		0.000565	0.00282	1	03/18/2019 23:19	WG1251625
1,2,3-Trichloropropane	U		0.00576	0.0141	1	03/18/2019 23:19	WG1251625
1,2,4-Trimethylbenzene	U		0.00131	0.00565	1	03/18/2019 23:19	WG1251625
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	03/18/2019 23:19	WG1251625
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	03/18/2019 23:19	WG1251625
Vinyl acetate	U		0.00398	0.0141	1	03/18/2019 23:19	WG1251625
Vinyl chloride	U		0.000771	0.00282	1	03/18/2019 23:19	WG1251625
Xylenes, Total	U		0.00540	0.00734	1	03/18/2019 23:19	WG1251625
(S) Toluene-d8	*95.8*			*75.0-131*		*03/18/2019 23:19*	WG1251625
(S) Toluene-d8	*94.7*			*75.0-131*		*03/19/2019 18:08*	WG1252003
(S) 4-Bromofluorobenzene	*91.0*			*67.0-138*		*03/18/2019 23:19*	WG1251625
(S) 4-Bromofluorobenzene	*80.8*			*67.0-138*		*03/19/2019 18:08*	WG1252003
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*03/18/2019 23:19*	WG1251625
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/19/2019 18:08*	WG1252003

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.9		1	03/19/2019 13:17	WG1252100

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0160	0.0291	1	03/19/2019 18:28	WG1252003	
Acrylonitrile	U		0.00221	0.0146	1	03/18/2019 23:42	WG1251625	
Benzene	U		0.000466	0.00116	1	03/18/2019 23:42	WG1251625	
Bromobenzene	U		0.00122	0.0146	1	03/18/2019 23:42	WG1251625	
Bromodichloromethane	U		0.000918	0.00291	1	03/18/2019 23:42	WG1251625	
Bromochloromethane	U		0.00132	0.00582	1	03/18/2019 23:42	WG1251625	
Bromoform	U		0.00696	0.0291	1	03/18/2019 23:42	WG1251625	
Bromomethane	U		0.00431	0.0146	1	03/18/2019 23:42	WG1251625	
n-Butylbenzene	U		0.00447	0.0146	1	03/19/2019 18:28	WG1252003	
sec-Butylbenzene	U		0.00295	0.0146	1	03/18/2019 23:42	WG1251625	
tert-Butylbenzene	U		0.00180	0.00582	1	03/18/2019 23:42	WG1251625	
Carbon disulfide	U		0.00473	0.0146	1	03/18/2019 23:42	WG1251625	
Carbon tetrachloride	U		0.00126	0.00582	1	03/18/2019 23:42	WG1251625	
Chlorobenzene	U		0.000667	0.00291	1	03/18/2019 23:42	WG1251625	
Chlorodibromomethane	U		0.000524	0.00291	1	03/18/2019 23:42	WG1251625	
Chloroethane	U		0.00126	0.00582	1	03/18/2019 23:42	WG1251625	
Chloroform	U		0.000483	0.00291	1	03/18/2019 23:42	WG1251625	
Chloromethane	U		0.00162	0.0146	1	03/18/2019 23:42	WG1251625	
2-Chlorotoluene	U		0.00107	0.00291	1	03/18/2019 23:42	WG1251625	
4-Chlorotoluene	U		0.00132	0.00582	1	03/18/2019 23:42	WG1251625	
1,2-Dibromo-3-Chloropropane	U		0.00594	0.0291	1	03/18/2019 23:42	WG1251625	
1,2-Dibromoethane	U		0.000611	0.00291	1	03/18/2019 23:42	WG1251625	
Dibromomethane	U		0.00116	0.00582	1	03/18/2019 23:42	WG1251625	
1,2-Dichlorobenzene	U		0.00169	0.00582	1	03/18/2019 23:42	WG1251625	
1,3-Dichlorobenzene	U		0.00198	0.00582	1	03/18/2019 23:42	WG1251625	
1,4-Dichlorobenzene	U		0.00229	0.00582	1	03/18/2019 23:42	WG1251625	
Dichlorodifluoromethane	U		0.000953	0.00291	1	03/18/2019 23:42	WG1251625	
1,1-Dichloroethane	U		0.000670	0.00291	1	03/18/2019 23:42	WG1251625	
1,2-Dichloroethane	U		0.000553	0.00291	1	03/18/2019 23:42	WG1251625	
1,1-Dichloroethene	U		0.000582	0.00291	1	03/18/2019 23:42	WG1251625	
cis-1,2-Dichloroethene	U		0.000804	0.00291	1	03/18/2019 23:42	WG1251625	
trans-1,2-Dichloroethene	U		0.00167	0.00582	1	03/18/2019 23:42	WG1251625	
1,2-Dichloropropane	U		0.00148	0.00582	1	03/18/2019 23:42	WG1251625	
1,1-Dichloropropene	U		0.000815	0.00291	1	03/18/2019 23:42	WG1251625	
1,3-Dichloropropane	U		0.00204	0.00582	1	03/18/2019 23:42	WG1251625	
cis-1,3-Dichloropropene	U		0.000790	0.00291	1	03/18/2019 23:42	WG1251625	
trans-1,3-Dichloropropene	U		0.00178	0.00582	1	03/18/2019 23:42	WG1251625	
trans-1,4-Dichloro-2-butene	U		0.00163	0.00582	1	03/18/2019 23:42	WG1251625	
2,2-Dichloropropane	U		0.000923	0.00291	1	03/18/2019 23:42	WG1251625	
Di-isopropyl ether	U		0.000408	0.00116	1	03/18/2019 23:42	WG1251625	
Ethylbenzene	U		0.000617	0.00291	1	03/18/2019 23:42	WG1251625	
Hexachloro-1,3-butadiene	U		0.0148	0.0291	1	03/19/2019 18:28	WG1252003	
2-Hexanone	U		0.0116	0.0291	1	03/18/2019 23:42	WG1251625	
n-Hexane	U		0.00123	0.00582	1	03/18/2019 23:42	WG1251625	
Iodomethane	U		0.00705	0.0146	1	03/18/2019 23:42	WG1251625	
Isopropylbenzene	U		0.00100	0.00291	1	03/18/2019 23:42	WG1251625	
p-Isopropyltoluene	U		0.00271	0.00582	1	03/18/2019 23:42	WG1251625	
2-Butanone (MEK)	0.0171 J	J J0	0.0146	0.0291	1	03/18/2019 23:42	WG1251625	JC 4/22/19
Methylene Chloride	U		0.00773	0.0291	1	03/18/2019 23:42	WG1251625	
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0291	1	03/18/2019 23:42	WG1251625	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00116	1	03/18/2019 23:42	WG1251625
Naphthalene	U		0.00363	0.0146	1	03/18/2019 23:42	WG1251625
n-Propylbenzene	U		0.00137	0.00582	1	03/18/2019 23:42	WG1251625
Styrene	U		0.00318	0.0146	1	03/18/2019 23:42	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000582	0.00291	1	03/18/2019 23:42	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000454	0.00291	1	03/18/2019 23:42	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000786	0.00291	1	03/18/2019 23:42	WG1251625
Tetrachloroethene	U		0.000815	0.00291	1	03/18/2019 23:42	WG1251625
Toluene	U		0.00146	0.00582	1	03/18/2019 23:42	WG1251625
1,2,3-Trichlorobenzene	U		0.000728	0.00291	1	03/19/2019 18:28	WG1252003
1,2,4-Trichlorobenzene	U		0.00561	0.0146	1	03/19/2019 18:28	WG1252003
1,1,1-Trichloroethane	U		0.000320	0.00291	1	03/18/2019 23:42	WG1251625
1,1,2-Trichloroethane	U		0.00103	0.00291	1	03/18/2019 23:42	WG1251625
Trichloroethene	U		0.000466	0.00116	1	03/18/2019 23:42	WG1251625
Trichlorofluoromethane	U		0.000582	0.00291	1	03/18/2019 23:42	WG1251625
1,2,3-Trichloropropane	U		0.00594	0.0146	1	03/18/2019 23:42	WG1251625
1,2,4-Trimethylbenzene	U		0.00135	0.00582	1	03/18/2019 23:42	WG1251625
1,2,3-Trimethylbenzene	U		0.00134	0.00582	1	03/18/2019 23:42	WG1251625
1,3,5-Trimethylbenzene	U		0.00126	0.00582	1	03/18/2019 23:42	WG1251625
Vinyl acetate	U		0.00410	0.0146	1	03/18/2019 23:42	WG1251625
Vinyl chloride	U		0.000795	0.00291	1	03/18/2019 23:42	WG1251625
Xylenes, Total	U		0.00557	0.00757	1	03/18/2019 23:42	WG1251625
(S) Toluene-d8	*94.3*			*75.0-131*		*03/18/2019 23:42*	WG1251625
(S) Toluene-d8	*93.3*			*75.0-131*		*03/19/2019 18:28*	WG1252003
(S) 4-Bromofluorobenzene	*92.1*			*67.0-138*		*03/18/2019 23:42*	WG1251625
(S) 4-Bromofluorobenzene	*79.3*			*67.0-138*		*03/19/2019 18:28*	WG1252003
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/18/2019 23:42*	WG1251625
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/19/2019 18:28*	WG1252003

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.3		1	03/20/2019 13:47	WG1252177

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0216 J	J J0	0.0159	0.0290	1	03/19/2019 18:47	WG1252003
Acrylonitrile	U		0.00220	0.0145	1	03/19/2019 00:04	WG1251625
Benzene	U		0.000463	0.00116	1	03/19/2019 00:04	WG1251625
Bromobenzene	U		0.00122	0.0145	1	03/19/2019 00:04	WG1251625
Bromodichloromethane	U		0.000913	0.00290	1	03/19/2019 00:04	WG1251625
Bromochloromethane	U		0.00131	0.00579	1	03/19/2019 00:04	WG1251625
Bromoform	U		0.00693	0.0290	1	03/19/2019 00:04	WG1251625
Bromomethane	U		0.00429	0.0145	1	03/19/2019 00:04	WG1251625
n-Butylbenzene	U		0.00445	0.0145	1	03/19/2019 18:47	WG1252003
sec-Butylbenzene	U		0.00293	0.0145	1	03/19/2019 00:04	WG1251625
tert-Butylbenzene	U		0.00180	0.00579	1	03/19/2019 00:04	WG1251625
Carbon disulfide	U		0.00470	0.0145	1	03/19/2019 00:04	WG1251625
Carbon tetrachloride	U		0.00125	0.00579	1	03/19/2019 00:04	WG1251625
Chlorobenzene	U		0.000664	0.00290	1	03/19/2019 00:04	WG1251625
Chlorodibromomethane	U		0.000521	0.00290	1	03/19/2019 00:04	WG1251625
Chloroethane	U		0.00125	0.00579	1	03/19/2019 00:04	WG1251625
Chloroform	U		0.000481	0.00290	1	03/19/2019 00:04	WG1251625
Chloromethane	U		0.00161	0.0145	1	03/19/2019 00:04	WG1251625
2-Chlorotoluene	U		0.00107	0.00290	1	03/19/2019 00:04	WG1251625
4-Chlorotoluene	U		0.00131	0.00579	1	03/19/2019 00:04	WG1251625
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0290	1	03/19/2019 00:04	WG1251625
1,2-Dibromoethane	U		0.000608	0.00290	1	03/19/2019 00:04	WG1251625
Dibromomethane	U		0.00116	0.00579	1	03/19/2019 00:04	WG1251625
1,2-Dichlorobenzene	U		0.00168	0.00579	1	03/19/2019 00:04	WG1251625
1,3-Dichlorobenzene	U		0.00197	0.00579	1	03/19/2019 00:04	WG1251625
1,4-Dichlorobenzene	U		0.00228	0.00579	1	03/19/2019 00:04	WG1251625
Dichlorodifluoromethane	U		0.000948	0.00290	1	03/19/2019 00:04	WG1251625
1,1-Dichloroethane	U		0.000666	0.00290	1	03/19/2019 00:04	WG1251625
1,2-Dichloroethane	U		0.000550	0.00290	1	03/19/2019 00:04	WG1251625
1,1-Dichloroethene	U		0.000579	0.00290	1	03/19/2019 00:04	WG1251625
cis-1,2-Dichloroethene	U		0.000799	0.00290	1	03/19/2019 00:04	WG1251625
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	03/19/2019 00:04	WG1251625
1,2-Dichloropropane	U		0.00147	0.00579	1	03/19/2019 00:04	WG1251625
1,1-Dichloropropene	U		0.000811	0.00290	1	03/19/2019 00:04	WG1251625
1,3-Dichloropropane	U		0.00203	0.00579	1	03/19/2019 00:04	WG1251625
cis-1,3-Dichloropropene	U		0.000786	0.00290	1	03/19/2019 00:04	WG1251625
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	03/19/2019 00:04	WG1251625
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	03/19/2019 00:04	WG1251625
2,2-Dichloropropane	U		0.000919	0.00290	1	03/19/2019 00:04	WG1251625
Di-isopropyl ether	U		0.000406	0.00116	1	03/19/2019 00:04	WG1251625
Ethylbenzene	U		0.000614	0.00290	1	03/19/2019 00:04	WG1251625
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	03/19/2019 18:47	WG1252003
2-Hexanone	U		0.0116	0.0290	1	03/19/2019 00:04	WG1251625
n-Hexane	U		0.00123	0.00579	1	03/19/2019 00:04	WG1251625
Iodomethane	U		0.00701	0.0145	1	03/19/2019 00:04	WG1251625
Isopropylbenzene	U		0.00100	0.00290	1	03/19/2019 00:04	WG1251625
p-Isopropyltoluene	U		0.00270	0.00579	1	03/19/2019 00:04	WG1251625
2-Butanone (MEK)	U		0.0145	0.0290	1	03/19/2019 00:04	WG1251625
Methylene Chloride	U		0.00769	0.0290	1	03/19/2019 00:04	WG1251625
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	03/19/2019 00:04	WG1251625

JC 4/22/19

B16D16-100

Collected date/time: 03/13/19 14:43

SAMPLE RESULTS - 18

L1079417

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	03/19/2019 00:04	WG1251625
Naphthalene	U		0.00362	0.0145	1	03/19/2019 00:04	WG1251625
n-Propylbenzene	U		0.00137	0.00579	1	03/19/2019 00:04	WG1251625
Styrene	U		0.00316	0.0145	1	03/19/2019 00:04	WG1251625
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	03/19/2019 00:04	WG1251625
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	03/19/2019 00:04	WG1251625
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	03/19/2019 00:04	WG1251625
Tetrachloroethene	U		0.000811	0.00290	1	03/19/2019 00:04	WG1251625
Toluene	U		0.00145	0.00579	1	03/19/2019 00:04	WG1251625
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	03/19/2019 18:47	WG1252003
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	03/19/2019 18:47	WG1252003
1,1,1-Trichloroethane	U		0.000319	0.00290	1	03/19/2019 00:04	WG1251625
1,1,2-Trichloroethane	U		0.00102	0.00290	1	03/19/2019 00:04	WG1251625
Trichloroethene	U		0.000463	0.00116	1	03/19/2019 00:04	WG1251625
Trichlorofluoromethane	U		0.000579	0.00290	1	03/19/2019 00:04	WG1251625
1,2,3-Trichloropropane	U		0.00591	0.0145	1	03/19/2019 00:04	WG1251625
1,2,4-Trimethylbenzene	U		0.00134	0.00579	1	03/19/2019 00:04	WG1251625
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	03/19/2019 00:04	WG1251625
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	03/19/2019 00:04	WG1251625
Vinyl acetate	U		0.00408	0.0145	1	03/19/2019 00:04	WG1251625
Vinyl chloride	U		0.000791	0.00290	1	03/19/2019 00:04	WG1251625
Xylenes, Total	U		0.00554	0.00753	1	03/19/2019 00:04	WG1251625
(S) Toluene-d8	*97.9*			*75.0-131*		*03/19/2019 00:04*	WG1251625
(S) Toluene-d8	*93.2*			*75.0-131*		*03/19/2019 18:47*	WG1252003
(S) 4-Bromofluorobenzene	*93.9*			*67.0-138*		*03/19/2019 00:04*	WG1251625
(S) 4-Bromofluorobenzene	*81.5*			*67.0-138*		*03/19/2019 18:47*	WG1252003
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*03/19/2019 00:04*	WG1251625
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/19/2019 18:47*	WG1252003

JC 4/22/19

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	87.7		1	03/20/2019 13:47	WG1252177

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Acetone	0.0242 J	J	0.0156	0.0285	1	03/21/2019 19:14	WG1253335	
Acrylonitrile	U		0.00217	0.0142	1	03/20/2019 17:13	WG1252749	
Benzene	U		0.000456	0.00114	1	03/20/2019 17:13	WG1252749	
Bromobenzene	U		0.00120	0.0142	1	03/20/2019 17:13	WG1252749	
Bromodichloromethane	U		0.000898	0.00285	1	03/20/2019 17:13	WG1252749	
Bromochloromethane	U		0.00129	0.00570	1	03/20/2019 17:13	WG1252749	
Bromoform	U		0.00682	0.0285	1	03/20/2019 17:13	WG1252749	
Bromomethane	U		0.00422	0.0142	1	03/20/2019 17:13	WG1252749	
n-Butylbenzene	U		0.00438	0.0142	1	03/20/2019 17:13	WG1252749	
sec-Butylbenzene	U		0.00288	0.0142	1	03/20/2019 17:13	WG1252749	
tert-Butylbenzene	U		0.00177	0.00570	1	03/20/2019 17:13	WG1252749	
Carbon disulfide	U		0.00463	0.0142	1	03/20/2019 17:13	WG1252749	
Carbon tetrachloride	U		0.00123	0.00570	1	03/20/2019 17:13	WG1252749	
Chlorobenzene	U		0.000653	0.00285	1	03/20/2019 17:13	WG1252749	
Chlorodibromomethane	U		0.000513	0.00285	1	03/20/2019 17:13	WG1252749	
Chloroethane	U		0.00123	0.00570	1	03/21/2019 19:14	WG1253335	
Chloroform	U		0.000473	0.00285	1	03/20/2019 17:13	WG1252749	
Chloromethane	U		0.00158	0.0142	1	03/21/2019 19:14	WG1253335	
2-Chlorotoluene	U	~~J4~~	0.00105	0.00285	1	03/20/2019 17:13	WG1252749	
4-Chlorotoluene	U		0.00129	0.00570	1	03/20/2019 17:13	WG1252749	
1,2-Dibromo-3-Chloropropane	U		0.00581	0.0285	1	03/20/2019 17:13	WG1252749	
1,2-Dibromoethane	U		0.000598	0.00285	1	03/20/2019 17:13	WG1252749	
Dibromomethane	U		0.00114	0.00570	1	03/20/2019 17:13	WG1252749	
1,2-Dichlorobenzene	U		0.00165	0.00570	1	03/20/2019 17:13	WG1252749	
1,3-Dichlorobenzene	U		0.00194	0.00570	1	03/20/2019 17:13	WG1252749	
1,4-Dichlorobenzene	U		0.00225	0.00570	1	03/20/2019 17:13	WG1252749	
Dichlorodifluoromethane	U		0.000932	0.00285	1	03/20/2019 17:13	WG1252749	
1,1-Dichloroethane	U		0.000655	0.00285	1	03/20/2019 17:13	WG1252749	
1,2-Dichloroethane	U		0.000541	0.00285	1	03/20/2019 17:13	WG1252749	
1,1-Dichloroethene	U		0.000570	0.00285	1	03/20/2019 17:13	WG1252749	
cis-1,2-Dichloroethene	U		0.000787	0.00285	1	03/20/2019 17:13	WG1252749	
trans-1,2-Dichloroethene	U		0.00163	0.00570	1	03/20/2019 17:13	WG1252749	
1,2-Dichloropropane	U		0.00145	0.00570	1	03/20/2019 17:13	WG1252749	
1,1-Dichloropropene	U	~~J4~~	0.000798	0.00285	1	03/20/2019 17:13	WG1252749	
1,3-Dichloropropane	U		0.00199	0.00570	1	03/20/2019 17:13	WG1252749	
cis-1,3-Dichloropropene	U		0.000773	0.00285	1	03/20/2019 17:13	WG1252749	
trans-1,3-Dichloropropene	U		0.00174	0.00570	1	03/20/2019 17:13	WG1252749	
trans-1,4-Dichloro-2-butene	U		0.00160	0.00570	1	03/20/2019 17:13	WG1252749	
2,2-Dichloropropane	U		0.000904	0.00285	1	03/20/2019 17:13	WG1252749	
Di-isopropyl ether	U		0.000399	0.00114	1	03/20/2019 17:13	WG1252749	
Ethylbenzene	U		0.000604	0.00285	1	03/20/2019 17:13	WG1252749	
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	03/20/2019 17:13	WG1252749	
2-Hexanone	U		0.0114	0.0285	1	03/20/2019 17:13	WG1252749	
n-Hexane	U		0.00121	0.00570	1	03/20/2019 17:13	WG1252749	
Iodomethane	U		0.00690	0.0142	1	03/20/2019 17:13	WG1252749	
Isopropylbenzene	U		0.000984	0.00285	1	03/20/2019 17:13	WG1252749	
p-Isopropyltoluene	U		0.00266	0.00570	1	03/20/2019 17:13	WG1252749	
2-Butanone (MEK)	U		0.0142	0.0285	1	03/20/2019 17:13	WG1252749	JC 4/22/19
Methylene Chloride	U		0.00757	0.0285	1	03/20/2019 17:13	WG1252749	
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	03/20/2019 17:13	WG1252749	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000336	0.00114	1	03/20/2019 17:13	WG1252749
Naphthalene	U		0.00356	0.0142	1	03/20/2019 17:13	WG1252749
n-Propylbenzene	U		0.00135	0.00570	1	03/20/2019 17:13	WG1252749
Styrene	U	~~J4~~	0.00311	0.0142	1	03/20/2019 17:13	WG1252749
1,1,1,2-Tetrachloroethane	U		0.000570	0.00285	1	03/21/2019 19:14	WG1253335
1,1,2,2-Tetrachloroethane	U		0.000445	0.00285	1	03/20/2019 17:13	WG1252749
1,1,2-Trichlorotrifluoroethane	U		0.000769	0.00285	1	03/21/2019 19:14	WG1253335
Tetrachloroethene	U		0.000798	0.00285	1	03/20/2019 17:13	WG1252749
Toluene	U		0.00142	0.00570	1	03/20/2019 17:13	WG1252749
1,2,3-Trichlorobenzene	U		0.000712	0.00285	1	03/20/2019 17:13	WG1252749
1,2,4-Trichlorobenzene	U		0.00549	0.0142	1	03/20/2019 17:13	WG1252749
1,1,1-Trichloroethane	U		0.000313	0.00285	1	03/20/2019 17:13	WG1252749
1,1,2-Trichloroethane	U		0.00101	0.00285	1	03/20/2019 17:13	WG1252749
Trichloroethene	U		0.000456	0.00114	1	03/20/2019 17:13	WG1252749
Trichlorofluoromethane	U		0.000570	0.00285	1	03/20/2019 17:13	WG1252749
1,2,3-Trichloropropane	U		0.00581	0.0142	1	03/20/2019 17:13	WG1252749
1,2,4-Trimethylbenzene	U		0.00132	0.00570	1	03/20/2019 17:13	WG1252749
1,2,3-Trimethylbenzene	U		0.00131	0.00570	1	03/20/2019 17:13	WG1252749
1,3,5-Trimethylbenzene	U		0.00123	0.00570	1	03/20/2019 17:13	WG1252749
Vinyl acetate	U		0.00401	0.0142	1	03/20/2019 17:13	WG1252749
Vinyl chloride	U		0.000779	0.00285	1	03/20/2019 17:13	WG1252749
Xylenes, Total	U		0.00545	0.00741	1	03/20/2019 17:13	WG1252749
(S) Toluene-d8	*108*			*75.0-131*		*03/20/2019 17:13*	WG1252749
(S) Toluene-d8	*92.8*			*75.0-131*		*03/21/2019 19:14*	WG1253335
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*03/20/2019 17:13*	WG1252749
(S) 4-Bromofluorobenzene	*77.1*			*67.0-138*		*03/21/2019 19:14*	WG1253335
(S) 1,2-Dichloroethane-d4	*91.5*			*70.0-130*		*03/20/2019 17:13*	WG1252749
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/21/2019 19:14*	WG1253335

JC 4/22/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.6		1	03/20/2019 13:47	WG1252177

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0624		0.0156	0.0285	1	03/21/2019 19:34	WG1253335	
Acrylonitrile	U		0.00217	0.0143	1	03/20/2019 17:32	WG1252749	
Benzene	U		0.000456	0.00114	1	03/20/2019 17:32	WG1252749	
Bromobenzene	U		0.00120	0.0143	1	03/20/2019 17:32	WG1252749	
Bromodichloromethane	U		0.000899	0.00285	1	03/20/2019 17:32	WG1252749	
Bromochloromethane	U		0.00129	0.00571	1	03/20/2019 17:32	WG1252749	
Bromoform	U		0.00682	0.0285	1	03/20/2019 17:32	WG1252749	
Bromomethane	U		0.00422	0.0143	1	03/20/2019 17:32	WG1252749	
n-Butylbenzene	U		0.00438	0.0143	1	03/20/2019 17:32	WG1252749	
sec-Butylbenzene	U		0.00289	0.0143	1	03/20/2019 17:32	WG1252749	
tert-Butylbenzene	U		0.00177	0.00571	1	03/20/2019 17:32	WG1252749	
Carbon disulfide	U		0.00463	0.0143	1	03/20/2019 17:32	WG1252749	
Carbon tetrachloride	U		0.00123	0.00571	1	03/20/2019 17:32	WG1252749	
Chlorobenzene	U		0.000654	0.00285	1	03/20/2019 17:32	WG1252749	
Chlorodibromomethane	U		0.000514	0.00285	1	03/20/2019 17:32	WG1252749	
Chloroethane	U		0.00123	0.00571	1	03/21/2019 19:34	WG1253335	
Chloroform	U		0.000474	0.00285	1	03/20/2019 17:32	WG1252749	
Chloromethane	U		0.00159	0.0143	1	03/21/2019 19:34	WG1253335	
2-Chlorotoluene	U	~~J4~~	0.00105	0.00285	1	03/20/2019 17:32	WG1252749	
4-Chlorotoluene	U		0.00129	0.00571	1	03/20/2019 17:32	WG1252749	
1,2-Dibromo-3-Chloropropane	U		0.00582	0.0285	1	03/20/2019 17:32	WG1252749	
1,2-Dibromoethane	U		0.000599	0.00285	1	03/20/2019 17:32	WG1252749	
Dibromomethane	U		0.00114	0.00571	1	03/20/2019 17:32	WG1252749	
1,2-Dichlorobenzene	U		0.00165	0.00571	1	03/20/2019 17:32	WG1252749	
1,3-Dichlorobenzene	U		0.00194	0.00571	1	03/20/2019 17:32	WG1252749	
1,4-Dichlorobenzene	U		0.00225	0.00571	1	03/20/2019 17:32	WG1252749	
Dichlorodifluoromethane	U		0.000933	0.00285	1	03/20/2019 17:32	WG1252749	
1,1-Dichloroethane	U		0.000656	0.00285	1	03/20/2019 17:32	WG1252749	
1,2-Dichloroethane	U		0.000542	0.00285	1	03/20/2019 17:32	WG1252749	
1,1-Dichloroethene	U		0.000571	0.00285	1	03/20/2019 17:32	WG1252749	
cis-1,2-Dichloroethene	U		0.000787	0.00285	1	03/20/2019 17:32	WG1252749	
trans-1,2-Dichloroethene	U		0.00163	0.00571	1	03/20/2019 17:32	WG1252749	
1,2-Dichloropropane	U		0.00145	0.00571	1	03/20/2019 17:32	WG1252749	
1,1-Dichloropropene	U	~~J4~~	0.000799	0.00285	1	03/20/2019 17:32	WG1252749	
1,3-Dichloropropane	U		0.00200	0.00571	1	03/20/2019 17:32	WG1252749	
cis-1,3-Dichloropropene	U		0.000774	0.00285	1	03/20/2019 17:32	WG1252749	
trans-1,3-Dichloropropene	U		0.00175	0.00571	1	03/20/2019 17:32	WG1252749	
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	03/20/2019 17:32	WG1252749	
2,2-Dichloropropane	U		0.000905	0.00285	1	03/20/2019 17:32	WG1252749	
Di-isopropyl ether	U		0.000399	0.00114	1	03/20/2019 17:32	WG1252749	
Ethylbenzene	U		0.000605	0.00285	1	03/20/2019 17:32	WG1252749	
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	03/20/2019 17:32	WG1252749	JC 4/22/19
2-Hexanone	U		0.0114	0.0285	1	03/20/2019 17:32	WG1252749	
n-Hexane	U		0.00121	0.00571	1	03/20/2019 17:32	WG1252749	
Iodomethane	U		0.00690	0.0143	1	03/20/2019 17:32	WG1252749	
Isopropylbenzene	U		0.000985	0.00285	1	03/20/2019 17:32	WG1252749	
p-Isopropyltoluene	U		0.00266	0.00571	1	03/20/2019 17:32	WG1252749	
2-Butanone (MEK)	U		0.0143	0.0285	1	03/20/2019 17:32	WG1252749	
Methylene Chloride	U		0.00758	0.0285	1	03/20/2019 17:32	WG1252749	
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	03/20/2019 17:32	WG1252749	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000337	0.00114	1	03/20/2019 17:32	WG1252749
Naphthalene	U		0.00356	0.0143	1	03/20/2019 17:32	WG1252749
n-Propylbenzene	U		0.00135	0.00571	1	03/20/2019 17:32	WG1252749
Styrene	U	~~J4~~	0.00312	0.0143	1	03/20/2019 17:32	WG1252749
1,1,1,2-Tetrachloroethane	U		0.000571	0.00285	1	03/21/2019 19:34	WG1253335
1,1,2,2-Tetrachloroethane	U		0.000445	0.00285	1	03/20/2019 17:32	WG1252749
1,1,2-Trichlorotrifluoroethane	U		0.000770	0.00285	1	03/21/2019 19:34	WG1253335
Tetrachloroethene	U		0.000799	0.00285	1	03/20/2019 17:32	WG1252749
Toluene	U		0.00143	0.00571	1	03/20/2019 17:32	WG1252749
1,2,3-Trichlorobenzene	U		0.000713	0.00285	1	03/20/2019 17:32	WG1252749
1,2,4-Trichlorobenzene	U		0.00550	0.0143	1	03/20/2019 17:32	WG1252749
1,1,1-Trichloroethane	U		0.000314	0.00285	1	03/20/2019 17:32	WG1252749
1,1,2-Trichloroethane	U		0.00101	0.00285	1	03/20/2019 17:32	WG1252749
Trichloroethene	U		0.000456	0.00114	1	03/20/2019 17:32	WG1252749
Trichlorofluoromethane	U		0.000571	0.00285	1	03/20/2019 17:32	WG1252749
1,2,3-Trichloropropane	U		0.00582	0.0143	1	03/20/2019 17:32	WG1252749
1,2,4-Trimethylbenzene	U		0.00132	0.00571	1	03/20/2019 17:32	WG1252749
1,2,3-Trimethylbenzene	U		0.00131	0.00571	1	03/20/2019 17:32	WG1252749
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	03/20/2019 17:32	WG1252749
Vinyl acetate	U		0.00402	0.0143	1	03/20/2019 17:32	WG1252749
Vinyl chloride	U		0.000779	0.00285	1	03/20/2019 17:32	WG1252749
Xylenes, Total	U		0.00545	0.00742	1	03/20/2019 17:32	WG1252749
(S) Toluene-d8	*108*			*75.0-131*		*03/20/2019 17:32*	WG1252749
(S) Toluene-d8	*92.4*			*75.0-131*		*03/21/2019 19:34*	WG1253335
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*03/20/2019 17:32*	WG1252749
(S) 4-Bromofluorobenzene	*79.6*			*67.0-138*		*03/21/2019 19:34*	WG1253335
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*		*03/20/2019 17:32*	WG1252749
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*03/21/2019 19:34*	WG1253335

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.7		1	03/25/2019 10:55	WG1254490

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0151	0.0276	1	03/26/2019 15:13	WG1255214
Acrylonitrile	U		0.00209	0.0138	1	03/25/2019 10:43	WG1254917
Benzene	U		0.000441	0.00110	1	03/25/2019 10:43	WG1254917
Bromobenzene	U		0.00116	0.0138	1	03/25/2019 10:43	WG1254917
Bromodichloromethane	U		0.000869	0.00276	1	03/25/2019 10:43	WG1254917
Bromochloromethane	U UJ	J4	0.00125	0.00551	1	03/25/2019 10:43	WG1254917
Bromoform	U		0.00659	0.0276	1	03/25/2019 10:43	WG1254917
Bromomethane	U		0.00408	0.0138	1	03/25/2019 10:43	WG1254917
n-Butylbenzene	U		0.00423	0.0138	1	03/25/2019 10:43	WG1254917
sec-Butylbenzene	U		0.00279	0.0138	1	03/25/2019 10:43	WG1254917
tert-Butylbenzene	U		0.00171	0.00551	1	03/25/2019 10:43	WG1254917
Carbon disulfide	U		0.00447	0.0138	1	03/25/2019 10:43	WG1254917
Carbon tetrachloride	U		0.00119	0.00551	1	03/25/2019 10:43	WG1254917
Chlorobenzene	U		0.000632	0.00276	1	03/25/2019 10:43	WG1254917
Chlorodibromomethane	U		0.000496	0.00276	1	03/25/2019 10:43	WG1254917
Chloroethane	U		0.00119	0.00551	1	03/25/2019 10:43	WG1254917
Chloroform	U		0.000457	0.00276	1	03/25/2019 10:43	WG1254917
Chloromethane	U		0.00153	0.0138	1	03/25/2019 10:43	WG1254917
2-Chlorotoluene	U		0.00101	0.00276	1	03/25/2019 10:43	WG1254917
4-Chlorotoluene	U		0.00125	0.00551	1	03/25/2019 10:43	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00562	0.0276	1	03/25/2019 10:43	WG1254917
1,2-Dibromoethane	U		0.000579	0.00276	1	03/25/2019 10:43	WG1254917
Dibromomethane	U		0.00110	0.00551	1	03/25/2019 10:43	WG1254917
1,2-Dichlorobenzene	U		0.00160	0.00551	1	03/25/2019 10:43	WG1254917
1,3-Dichlorobenzene	U		0.00187	0.00551	1	03/25/2019 10:43	WG1254917
1,4-Dichlorobenzene	U		0.00217	0.00551	1	03/25/2019 10:43	WG1254917
Dichlorodifluoromethane	U		0.000902	0.00276	1	03/25/2019 10:43	WG1254917
1,1-Dichloroethane	U		0.000634	0.00276	1	03/25/2019 10:43	WG1254917
1,2-Dichloroethane	U		0.000524	0.00276	1	03/25/2019 10:43	WG1254917
1,1-Dichloroethene	U		0.000551	0.00276	1	03/25/2019 10:43	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000760	0.00276	1	03/25/2019 10:43	WG1254917
trans-1,2-Dichloroethene	U		0.00158	0.00551	1	03/25/2019 10:43	WG1254917
1,2-Dichloropropane	U		0.00140	0.00551	1	03/25/2019 10:43	WG1254917
1,1-Dichloropropene	U		0.000772	0.00276	1	03/25/2019 10:43	WG1254917
1,3-Dichloropropane	U		0.00193	0.00551	1	03/25/2019 10:43	WG1254917
cis-1,3-Dichloropropene	U		0.000747	0.00276	1	03/25/2019 10:43	WG1254917
trans-1,3-Dichloropropene	U		0.00169	0.00551	1	03/25/2019 10:43	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	03/25/2019 10:43	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000874	0.00276	1	03/25/2019 10:43	WG1254917
Di-isopropyl ether	U		0.000386	0.00110	1	03/25/2019 10:43	WG1254917
Ethylbenzene	U		0.000584	0.00276	1	03/25/2019 10:43	WG1254917
Hexachloro-1,3-butadiene	U		0.0140	0.0276	1	03/25/2019 10:43	WG1254917
2-Hexanone	U		0.0110	0.0276	1	03/25/2019 10:43	WG1254917
n-Hexane	U		0.00117	0.00551	1	03/25/2019 10:43	WG1254917
Iodomethane	U		0.00667	0.0138	1	03/25/2019 10:43	WG1254917
Isopropylbenzene	U		0.000951	0.00276	1	03/25/2019 10:43	WG1254917
p-Isopropyltoluene	U		0.00257	0.00551	1	03/25/2019 10:43	WG1254917
2-Butanone (MEK)	U		0.0138	0.0276	1	03/25/2019 10:43	WG1254917
Methylene Chloride	U		0.00732	0.0276	1	03/25/2019 10:43	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0276	1	03/25/2019 10:43	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	03/25/2019 10:43	WG1254917
Naphthalene	U		0.00344	0.0138	1	03/25/2019 10:43	WG1254917
n-Propylbenzene	U		0.00130	0.00551	1	03/25/2019 10:43	WG1254917
Styrene	U		0.00301	0.0138	1	03/25/2019 10:43	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000551	0.00276	1	03/25/2019 10:43	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000430	0.00276	1	03/25/2019 10:43	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00276	1	03/25/2019 10:43	WG1254917
Tetrachloroethene	U		0.000772	0.00276	1	03/25/2019 10:43	WG1254917
Toluene	0.00149 J	J	0.00138	0.00551	1	03/25/2019 10:43	WG1254917
1,2,3-Trichlorobenzene	U		0.000689	0.00276	1	03/25/2019 10:43	WG1254917
1,2,4-Trichlorobenzene	U		0.00531	0.0138	1	03/25/2019 10:43	WG1254917
1,1,1-Trichloroethane	U		0.000303	0.00276	1	03/25/2019 10:43	WG1254917
1,1,2-Trichloroethane	U		0.000973	0.00276	1	03/25/2019 10:43	WG1254917
Trichloroethene	U		0.000441	0.00110	1	03/25/2019 10:43	WG1254917
Trichlorofluoromethane	U		0.000551	0.00276	1	03/25/2019 10:43	WG1254917
1,2,3-Trichloropropane	U		0.00562	0.0138	1	03/25/2019 10:43	WG1254917
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	03/25/2019 10:43	WG1254917
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	03/25/2019 10:43	WG1254917
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	03/25/2019 10:43	WG1254917
Vinyl acetate	U		0.00388	0.0138	1	03/25/2019 10:43	WG1254917
Vinyl chloride	U		0.000753	0.00276	1	03/25/2019 10:43	WG1254917
Xylenes, Total	U		0.00527	0.00716	1	03/25/2019 10:43	WG1254917
(S) Toluene-d8	*108*			*75.0-131*		*03/25/2019 10:43*	WG1254917
(S) Toluene-d8	*93.0*			*75.0-131*		*03/26/2019 15:13*	WG1255214
(S) 4-Bromofluorobenzene	*94.0*			*67.0-138*		*03/25/2019 10:43*	WG1254917
(S) 4-Bromofluorobenzene	*80.7*			*67.0-138*		*03/26/2019 15:13*	WG1255214
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/25/2019 10:43*	WG1254917
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/26/2019 15:13*	WG1255214

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.9		1	03/25/2019 10:55	WG1254490

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0169	0.0308	1.06	03/26/2019 15:32	WG1255214
Acrylonitrile	U		0.00234	0.0154	1.06	03/25/2019 11:02	WG1254917
Benzene	U		0.000493	0.00123	1.06	03/25/2019 11:02	WG1254917
Bromobenzene	U		0.00129	0.0154	1.06	03/25/2019 11:02	WG1254917
Bromodichloromethane	U		0.000972	0.00308	1.06	03/25/2019 11:02	WG1254917
Bromochloromethane	U UJ	J4	0.00140	0.00617	1.06	03/25/2019 11:02	WG1254917
Bromoform	U		0.00738	0.0308	1.06	03/25/2019 11:02	WG1254917
Bromomethane	U		0.00456	0.0154	1.06	03/25/2019 11:02	WG1254917
n-Butylbenzene	U		0.00474	0.0154	1.06	03/25/2019 11:02	WG1254917
sec-Butylbenzene	U		0.00312	0.0154	1.06	03/25/2019 11:02	WG1254917
tert-Butylbenzene	U		0.00191	0.00617	1.06	03/25/2019 11:02	WG1254917
Carbon disulfide	U		0.00500	0.0154	1.06	03/25/2019 11:02	WG1254917
Carbon tetrachloride	U		0.00133	0.00617	1.06	03/25/2019 11:02	WG1254917
Chlorobenzene	U		0.000706	0.00308	1.06	03/25/2019 11:02	WG1254917
Chlorodibromomethane	U		0.000555	0.00308	1.06	03/25/2019 11:02	WG1254917
Chloroethane	U		0.00133	0.00617	1.06	03/25/2019 11:02	WG1254917
Chloroform	U		0.000512	0.00308	1.06	03/25/2019 11:02	WG1254917
Chloromethane	U		0.00171	0.0154	1.06	03/25/2019 11:02	WG1254917
2-Chlorotoluene	U		0.00113	0.00308	1.06	03/25/2019 11:02	WG1254917
4-Chlorotoluene	U		0.00140	0.00617	1.06	03/25/2019 11:02	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00630	0.0308	1.06	03/25/2019 11:02	WG1254917
1,2-Dibromoethane	U		0.000647	0.00308	1.06	03/25/2019 11:02	WG1254917
Dibromomethane	U		0.00123	0.00617	1.06	03/25/2019 11:02	WG1254917
1,2-Dichlorobenzene	U		0.00179	0.00617	1.06	03/25/2019 11:02	WG1254917
1,3-Dichlorobenzene	U		0.00209	0.00617	1.06	03/25/2019 11:02	WG1254917
1,4-Dichlorobenzene	U		0.00243	0.00617	1.06	03/25/2019 11:02	WG1254917
Dichlorodifluoromethane	U		0.00101	0.00308	1.06	03/25/2019 11:02	WG1254917
1,1-Dichloroethane	U		0.000710	0.00308	1.06	03/25/2019 11:02	WG1254917
1,2-Dichloroethane	U		0.000587	0.00308	1.06	03/25/2019 11:02	WG1254917
1,1-Dichloroethene	U		0.000617	0.00308	1.06	03/25/2019 11:02	WG1254917
cis-1,2-Dichloroethene	0.0310 J	J4	0.000851	0.00308	1.06	03/25/2019 11:02	WG1254917
trans-1,2-Dichloroethene	U		0.00177	0.00617	1.06	03/25/2019 11:02	WG1254917
1,2-Dichloropropane	U		0.00157	0.00617	1.06	03/25/2019 11:02	WG1254917
1,1-Dichloropropene	U		0.000864	0.00308	1.06	03/25/2019 11:02	WG1254917
1,3-Dichloropropane	U		0.00216	0.00617	1.06	03/25/2019 11:02	WG1254917
cis-1,3-Dichloropropene	U		0.000837	0.00308	1.06	03/25/2019 11:02	WG1254917
trans-1,3-Dichloropropene	U		0.00189	0.00617	1.06	03/25/2019 11:02	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00172	0.00617	1.06	03/25/2019 11:02	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000978	0.00308	1.06	03/25/2019 11:02	WG1254917
Di-isopropyl ether	U		0.000432	0.00123	1.06	03/25/2019 11:02	WG1254917
Ethylbenzene	U		0.000654	0.00308	1.06	03/25/2019 11:02	WG1254917
Hexachloro-1,3-butadiene	U		0.0157	0.0308	1.06	03/25/2019 11:02	WG1254917
2-Hexanone	U		0.0123	0.0308	1.06	03/25/2019 11:02	WG1254917
n-Hexane	U		0.00130	0.00617	1.06	03/25/2019 11:02	WG1254917
Iodomethane	U		0.00746	0.0154	1.06	03/25/2019 11:02	WG1254917
Isopropylbenzene	U		0.00106	0.00308	1.06	03/25/2019 11:02	WG1254917
p-Isopropyltoluene	U		0.00287	0.00617	1.06	03/25/2019 11:02	WG1254917
2-Butanone (MEK)	U		0.0154	0.0308	1.06	03/25/2019 11:02	WG1254917
Methylene Chloride	U		0.00819	0.0308	1.06	03/25/2019 11:02	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0308	1.06	03/25/2019 11:02	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000364	0.00123	1.06	03/25/2019 11:02	WG1254917
Naphthalene	U		0.00385	0.0154	1.06	03/25/2019 11:02	WG1254917
n-Propylbenzene	U		0.00145	0.00617	1.06	03/25/2019 11:02	WG1254917
Styrene	U		0.00336	0.0154	1.06	03/25/2019 11:02	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000617	0.00308	1.06	03/25/2019 11:02	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000481	0.00308	1.06	03/25/2019 11:02	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000833	0.00308	1.06	03/25/2019 11:02	WG1254917
Tetrachloroethene	0.0182		0.000864	0.00308	1.06	03/25/2019 11:02	WG1254917
Toluene	U		0.00154	0.00617	1.06	03/25/2019 11:02	WG1254917
1,2,3-Trichlorobenzene	U		0.000770	0.00308	1.06	03/25/2019 11:02	WG1254917
1,2,4-Trichlorobenzene	U		0.00595	0.0154	1.06	03/25/2019 11:02	WG1254917
1,1,1-Trichloroethane	U		0.000340	0.00308	1.06	03/25/2019 11:02	WG1254917
1,1,2-Trichloroethane	U		0.00109	0.00308	1.06	03/25/2019 11:02	WG1254917
Trichloroethene	U		0.000493	0.00123	1.06	03/25/2019 11:02	WG1254917
Trichlorofluoromethane	U		0.000617	0.00308	1.06	03/25/2019 11:02	WG1254917
1,2,3-Trichloropropane	U		0.00630	0.0154	1.06	03/25/2019 11:02	WG1254917
1,2,4-Trimethylbenzene	U		0.00143	0.00617	1.06	03/25/2019 11:02	WG1254917
1,2,3-Trimethylbenzene	U		0.00142	0.00617	1.06	03/25/2019 11:02	WG1254917
1,3,5-Trimethylbenzene	U		0.00133	0.00617	1.06	03/25/2019 11:02	WG1254917
Vinyl acetate	U		0.00434	0.0154	1.06	03/25/2019 11:02	WG1254917
Vinyl chloride	U		0.000843	0.00308	1.06	03/25/2019 11:02	WG1254917
Xylenes, Total	U		0.00590	0.00802	1.06	03/25/2019 11:02	WG1254917
(S) Toluene-d8	*108*			*75.0-131*		*03/25/2019 11:02*	WG1254917
(S) Toluene-d8	*95.7*			*75.0-131*		*03/26/2019 15:32*	WG1255214
(S) 4-Bromofluorobenzene	*93.8*			*67.0-138*		*03/25/2019 11:02*	WG1254917
(S) 4-Bromofluorobenzene	*78.1*			*67.0-138*		*03/26/2019 15:32*	WG1255214
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*		*03/25/2019 11:02*	WG1254917
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/26/2019 15:32*	WG1255214

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	03/25/2019 10:55	WG1254490

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0160	0.0292	1	03/26/2019 15:52	WG1255214
Acrylonitrile	U		0.00222	0.0146	1	03/25/2019 11:22	WG1254917
Benzene	U		0.000467	0.00117	1	03/25/2019 11:22	WG1254917
Bromobenzene	U		0.00123	0.0146	1	03/25/2019 11:22	WG1254917
Bromodichloromethane	U		0.000920	0.00292	1	03/25/2019 11:22	WG1254917
Bromochloromethane	U UJ	J4	0.00132	0.00584	1	03/25/2019 11:22	WG1254917
Bromoform	U		0.00698	0.0292	1	03/25/2019 11:22	WG1254917
Bromomethane	U		0.00432	0.0146	1	03/25/2019 11:22	WG1254917
n-Butylbenzene	U		0.00448	0.0146	1	03/25/2019 11:22	WG1254917
sec-Butylbenzene	U		0.00295	0.0146	1	03/25/2019 11:22	WG1254917
tert-Butylbenzene	U		0.00181	0.00584	1	03/25/2019 11:22	WG1254917
Carbon disulfide	U		0.00474	0.0146	1	03/25/2019 11:22	WG1254917
Carbon tetrachloride	U		0.00126	0.00584	1	03/25/2019 11:22	WG1254917
Chlorobenzene	U		0.000669	0.00292	1	03/25/2019 11:22	WG1254917
Chlorodibromomethane	U		0.000525	0.00292	1	03/25/2019 11:22	WG1254917
Chloroethane	U		0.00126	0.00584	1	03/25/2019 11:22	WG1254917
Chloroform	U		0.000484	0.00292	1	03/25/2019 11:22	WG1254917
Chloromethane	U		0.00162	0.0146	1	03/25/2019 11:22	WG1254917
2-Chlorotoluene	U		0.00107	0.00292	1	03/25/2019 11:22	WG1254917
4-Chlorotoluene	U		0.00132	0.00584	1	03/25/2019 11:22	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00595	0.0292	1	03/25/2019 11:22	WG1254917
1,2-Dibromoethane	U		0.000613	0.00292	1	03/25/2019 11:22	WG1254917
Dibromomethane	U		0.00117	0.00584	1	03/25/2019 11:22	WG1254917
1,2-Dichlorobenzene	U		0.00169	0.00584	1	03/25/2019 11:22	WG1254917
1,3-Dichlorobenzene	U		0.00198	0.00584	1	03/25/2019 11:22	WG1254917
1,4-Dichlorobenzene	U		0.00230	0.00584	1	03/25/2019 11:22	WG1254917
Dichlorodifluoromethane	U		0.000955	0.00292	1	03/25/2019 11:22	WG1254917
1,1-Dichloroethane	U		0.000671	0.00292	1	03/25/2019 11:22	WG1254917
1,2-Dichloroethane	U		0.000554	0.00292	1	03/25/2019 11:22	WG1254917
1,1-Dichloroethene	U		0.000584	0.00292	1	03/25/2019 11:22	WG1254917
cis-1,2-Dichloroethene	0.00927 J	J4	0.000805	0.00292	1	03/25/2019 11:22	WG1254917
trans-1,2-Dichloroethene	U		0.00167	0.00584	1	03/25/2019 11:22	WG1254917
1,2-Dichloropropane	U		0.00148	0.00584	1	03/25/2019 11:22	WG1254917
1,1-Dichloropropene	U		0.000817	0.00292	1	03/25/2019 11:22	WG1254917
1,3-Dichloropropane	U		0.00204	0.00584	1	03/25/2019 11:22	WG1254917
cis-1,3-Dichloropropene	U		0.000791	0.00292	1	03/25/2019 11:22	WG1254917
trans-1,3-Dichloropropene	U		0.00179	0.00584	1	03/25/2019 11:22	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00163	0.00584	1	03/25/2019 11:22	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000926	0.00292	1	03/25/2019 11:22	WG1254917
Di-isopropyl ether	U		0.000409	0.00117	1	03/25/2019 11:22	WG1254917
Ethylbenzene	U		0.000619	0.00292	1	03/25/2019 11:22	WG1254917
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	03/25/2019 11:22	WG1254917
2-Hexanone	U		0.0117	0.0292	1	03/25/2019 11:22	WG1254917
n-Hexane	U		0.00124	0.00584	1	03/25/2019 11:22	WG1254917
Iodomethane	U		0.00706	0.0146	1	03/25/2019 11:22	WG1254917
Isopropylbenzene	U		0.00101	0.00292	1	03/25/2019 11:22	WG1254917
p-Isopropyltoluene	U		0.00272	0.00584	1	03/25/2019 11:22	WG1254917
2-Butanone (MEK)	U		0.0146	0.0292	1	03/25/2019 11:22	WG1254917
Methylene Chloride	U		0.00775	0.0292	1	03/25/2019 11:22	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	03/25/2019 11:22	WG1254917

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B19D19-20

Collected date/time: 03/18/19 10:17

SAMPLE RESULTS - 03

L1081046

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	03/25/2019 11:22	WG1254917
Naphthalene	U		0.00364	0.0146	1	03/25/2019 11:22	WG1254917
n-Propylbenzene	U		0.00138	0.00584	1	03/25/2019 11:22	WG1254917
Styrene	U		0.00319	0.0146	1	03/25/2019 11:22	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000584	0.00292	1	03/25/2019 11:22	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000455	0.00292	1	03/25/2019 11:22	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000788	0.00292	1	03/25/2019 11:22	WG1254917
Tetrachloroethene	0.0251		0.000817	0.00292	1	03/25/2019 11:22	WG1254917
Toluene	0.00152 J	J	0.00146	0.00584	1	03/25/2019 11:22	WG1254917
1,2,3-Trichlorobenzene	U		0.000730	0.00292	1	03/25/2019 11:22	WG1254917
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1	03/25/2019 11:22	WG1254917
1,1,1-Trichloroethane	U		0.000321	0.00292	1	03/25/2019 11:22	WG1254917
1,1,2-Trichloroethane	U		0.00103	0.00292	1	03/25/2019 11:22	WG1254917
Trichloroethene	0.000616 J	J	0.000467	0.00117	1	03/25/2019 11:22	WG1254917
Trichlorofluoromethane	U		0.000584	0.00292	1	03/25/2019 11:22	WG1254917
1,2,3-Trichloropropane	U		0.00595	0.0146	1	03/25/2019 11:22	WG1254917
1,2,4-Trimethylbenzene	U		0.00135	0.00584	1	03/25/2019 11:22	WG1254917
1,2,3-Trimethylbenzene	U		0.00134	0.00584	1	03/25/2019 11:22	WG1254917
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1	03/25/2019 11:22	WG1254917
Vinyl acetate	U		0.00411	0.0146	1	03/25/2019 11:22	WG1254917
Vinyl chloride	U		0.000797	0.00292	1	03/25/2019 11:22	WG1254917
Xylenes, Total	U		0.00558	0.00759	1	03/25/2019 11:22	WG1254917
(S) Toluene-d8	*105*			*75.0-131*		*03/25/2019 11:22*	WG1254917
(S) Toluene-d8	*94.2*			*75.0-131*		*03/26/2019 15:52*	WG1255214
(S) 4-Bromofluorobenzene	*92.0*			*67.0-138*		*03/25/2019 11:22*	WG1254917
(S) 4-Bromofluorobenzene	*80.0*			*67.0-138*		*03/26/2019 15:52*	WG1255214
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/25/2019 11:22*	WG1254917
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/26/2019 15:52*	WG1255214

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	03/25/2019 10:55	WG1254490

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0170	0.0310	1.08	03/26/2019 16:11	WG1255214
Acrylonitrile	U		0.00235	0.0155	1.08	03/25/2019 11:41	WG1254917
Benzene	U		0.000496	0.00124	1.08	03/25/2019 11:41	WG1254917
Bromobenzene	U		0.00130	0.0155	1.08	03/25/2019 11:41	WG1254917
Bromodichloromethane	U		0.000977	0.00310	1.08	03/25/2019 11:41	WG1254917
Bromochloromethane	U UJ	J4	0.00140	0.00620	1.08	03/25/2019 11:41	WG1254917
Bromoform	U		0.00741	0.0310	1.08	03/25/2019 11:41	WG1254917
Bromomethane	U		0.00459	0.0155	1.08	03/25/2019 11:41	WG1254917
n-Butylbenzene	U		0.00476	0.0155	1.08	03/25/2019 11:41	WG1254917
sec-Butylbenzene	U		0.00313	0.0155	1.08	03/25/2019 11:41	WG1254917
tert-Butylbenzene	U		0.00192	0.00620	1.08	03/25/2019 11:41	WG1254917
Carbon disulfide	0.00667 J	J	0.00503	0.0155	1.08	03/25/2019 11:41	WG1254917
Carbon tetrachloride	U		0.00134	0.00620	1.08	03/25/2019 11:41	WG1254917
Chlorobenzene	U		0.000711	0.00310	1.08	03/25/2019 11:41	WG1254917
Chlorodibromomethane	U		0.000558	0.00310	1.08	03/25/2019 11:41	WG1254917
Chloroethane	U		0.00134	0.00620	1.08	03/25/2019 11:41	WG1254917
Chloroform	U		0.000514	0.00310	1.08	03/25/2019 11:41	WG1254917
Chloromethane	U		0.00172	0.0155	1.08	03/25/2019 11:41	WG1254917
2-Chlorotoluene	U		0.00114	0.00310	1.08	03/25/2019 11:41	WG1254917
4-Chlorotoluene	U		0.00140	0.00620	1.08	03/25/2019 11:41	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00632	0.0310	1.08	03/25/2019 11:41	WG1254917
1,2-Dibromoethane	U		0.000651	0.00310	1.08	03/25/2019 11:41	WG1254917
Dibromomethane	U		0.00124	0.00620	1.08	03/25/2019 11:41	WG1254917
1,2-Dichlorobenzene	U		0.00180	0.00620	1.08	03/25/2019 11:41	WG1254917
1,3-Dichlorobenzene	U		0.00211	0.00620	1.08	03/25/2019 11:41	WG1254917
1,4-Dichlorobenzene	U		0.00244	0.00620	1.08	03/25/2019 11:41	WG1254917
Dichlorodifluoromethane	U		0.00101	0.00310	1.08	03/25/2019 11:41	WG1254917
1,1-Dichloroethane	U		0.000713	0.00310	1.08	03/25/2019 11:41	WG1254917
1,2-Dichloroethane	U		0.000589	0.00310	1.08	03/25/2019 11:41	WG1254917
1,1-Dichloroethene	U		0.000620	0.00310	1.08	03/25/2019 11:41	WG1254917
cis-1,2-Dichloroethene	0.0500 J	J4	0.000855	0.00310	1.08	03/25/2019 11:41	WG1254917
trans-1,2-Dichloroethene	U		0.00177	0.00620	1.08	03/25/2019 11:41	WG1254917
1,2-Dichloropropane	U		0.00157	0.00620	1.08	03/25/2019 11:41	WG1254917
1,1-Dichloropropene	U		0.000868	0.00310	1.08	03/25/2019 11:41	WG1254917
1,3-Dichloropropane	U		0.00217	0.00620	1.08	03/25/2019 11:41	WG1254917
cis-1,3-Dichloropropene	U		0.000840	0.00310	1.08	03/25/2019 11:41	WG1254917
trans-1,3-Dichloropropene	U		0.00189	0.00620	1.08	03/25/2019 11:41	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00173	0.00620	1.08	03/25/2019 11:41	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000983	0.00310	1.08	03/25/2019 11:41	WG1254917
Di-isopropyl ether	U		0.000434	0.00124	1.08	03/25/2019 11:41	WG1254917
Ethylbenzene	U		0.000657	0.00310	1.08	03/25/2019 11:41	WG1254917
Hexachloro-1,3-butadiene	U		0.0157	0.0310	1.08	03/25/2019 11:41	WG1254917
2-Hexanone	U		0.0124	0.0310	1.08	03/25/2019 11:41	WG1254917
n-Hexane	0.0102 UJ	J0	0.00131	0.00620	1.08	03/25/2019 11:41	WG1254917
Iodomethane	U		0.00750	0.0155	1.08	03/25/2019 11:41	WG1254917 JC 4/22/19
Isopropylbenzene	U		0.00107	0.00310	1.08	03/25/2019 11:41	WG1254917
p-Isopropyltoluene	U		0.00289	0.00620	1.08	03/25/2019 11:41	WG1254917
2-Butanone (MEK)	U		0.0155	0.0310	1.08	03/25/2019 11:41	WG1254917
Methylene Chloride	U		0.00823	0.0310	1.08	03/25/2019 11:41	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0310	1.08	03/25/2019 11:41	WG1254917

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000366	0.00124	1.08	03/25/2019 11:41	WG1254917
Naphthalene	U		0.00387	0.0155	1.08	03/25/2019 11:41	WG1254917
n-Propylbenzene	U		0.00146	0.00620	1.08	03/25/2019 11:41	WG1254917
Styrene	U		0.00339	0.0155	1.08	03/25/2019 11:41	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000620	0.00310	1.08	03/25/2019 11:41	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000483	0.00310	1.08	03/25/2019 11:41	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000837	0.00310	1.08	03/25/2019 11:41	WG1254917
Tetrachloroethene	2.38		0.000868	0.00310	1.08	03/25/2019 11:41	WG1254917
Toluene	0.00184 J	J	0.00155	0.00620	1.08	03/25/2019 11:41	WG1254917
1,2,3-Trichlorobenzene	U		0.000775	0.00310	1.08	03/25/2019 11:41	WG1254917
1,2,4-Trichlorobenzene	U		0.00597	0.0155	1.08	03/25/2019 11:41	WG1254917
1,1,1-Trichloroethane	U		0.000341	0.00310	1.08	03/25/2019 11:41	WG1254917
1,1,2-Trichloroethane	U		0.00110	0.00310	1.08	03/25/2019 11:41	WG1254917
Trichloroethene	0.221		0.000496	0.00124	1.08	03/25/2019 11:41	WG1254917
Trichlorofluoromethane	U		0.000620	0.00310	1.08	03/25/2019 11:41	WG1254917
1,2,3-Trichloropropane	U		0.00632	0.0155	1.08	03/25/2019 11:41	WG1254917
1,2,4-Trimethylbenzene	U		0.00143	0.00620	1.08	03/25/2019 11:41	WG1254917
1,2,3-Trimethylbenzene	U		0.00142	0.00620	1.08	03/25/2019 11:41	WG1254917
1,3,5-Trimethylbenzene	U		0.00134	0.00620	1.08	03/25/2019 11:41	WG1254917
Vinyl acetate	U		0.00436	0.0155	1.08	03/25/2019 11:41	WG1254917
Vinyl chloride	U		0.000847	0.00310	1.08	03/25/2019 11:41	WG1254917
Xylenes, Total	U		0.00592	0.00806	1.08	03/25/2019 11:41	WG1254917
(S) Toluene-d8	*105*			*75.0-131*		*03/25/2019 11:41*	WG1254917
(S) Toluene-d8	*93.8*			*75.0-131*		*03/26/2019 16:11*	WG1255214
(S) 4-Bromofluorobenzene	*91.3*			*67.0-138*		*03/25/2019 11:41*	WG1254917
(S) 4-Bromofluorobenzene	*80.0*			*67.0-138*		*03/26/2019 16:11*	WG1255214
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/25/2019 11:41*	WG1254917
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/26/2019 16:11*	WG1255214

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.0		1	03/25/2019 10:55	WG1254490

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0287	1	03/26/2019 16:31	WG1255214
Acrylonitrile	U		0.00218	0.0144	1	03/25/2019 12:00	WG1254917
Benzene	U		0.000460	0.00115	1	03/25/2019 12:00	WG1254917
Bromobenzene	U		0.00121	0.0144	1	03/25/2019 12:00	WG1254917
Bromodichloromethane	U		0.000906	0.00287	1	03/25/2019 12:00	WG1254917
Bromochloromethane	U UJ	J4	0.00130	0.00575	1	03/25/2019 12:00	WG1254917
Bromoform	U		0.00687	0.0287	1	03/25/2019 12:00	WG1254917
Bromomethane	U		0.00425	0.0144	1	03/25/2019 12:00	WG1254917
n-Butylbenzene	U		0.00441	0.0144	1	03/25/2019 12:00	WG1254917
sec-Butylbenzene	U		0.00291	0.0144	1	03/25/2019 12:00	WG1254917
tert-Butylbenzene	U		0.00178	0.00575	1	03/25/2019 12:00	WG1254917
Carbon disulfide	U		0.00467	0.0144	1	03/25/2019 12:00	WG1254917
Carbon tetrachloride	U		0.00124	0.00575	1	03/25/2019 12:00	WG1254917
Chlorobenzene	U		0.000659	0.00287	1	03/25/2019 12:00	WG1254917
Chlorodibromomethane	U		0.000517	0.00287	1	03/25/2019 12:00	WG1254917
Chloroethane	U		0.00124	0.00575	1	03/25/2019 12:00	WG1254917
Chloroform	U		0.000477	0.00287	1	03/25/2019 12:00	WG1254917
Chloromethane	U		0.00160	0.0144	1	03/25/2019 12:00	WG1254917
2-Chlorotoluene	U		0.00106	0.00287	1	03/25/2019 12:00	WG1254917
4-Chlorotoluene	U		0.00130	0.00575	1	03/25/2019 12:00	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00586	0.0287	1	03/25/2019 12:00	WG1254917
1,2-Dibromoethane	U		0.000603	0.00287	1	03/25/2019 12:00	WG1254917
Dibromomethane	U		0.00115	0.00575	1	03/25/2019 12:00	WG1254917
1,2-Dichlorobenzene	U		0.00167	0.00575	1	03/25/2019 12:00	WG1254917
1,3-Dichlorobenzene	U		0.00195	0.00575	1	03/25/2019 12:00	WG1254917
1,4-Dichlorobenzene	U		0.00226	0.00575	1	03/25/2019 12:00	WG1254917
Dichlorodifluoromethane	U		0.000940	0.00287	1	03/25/2019 12:00	WG1254917
1,1-Dichloroethane	U		0.000661	0.00287	1	03/25/2019 12:00	WG1254917
1,2-Dichloroethane	U		0.000546	0.00287	1	03/25/2019 12:00	WG1254917
1,1-Dichloroethene	U		0.000575	0.00287	1	03/25/2019 12:00	WG1254917
cis-1,2-Dichloroethene	0.0551 J	J4	0.000793	0.00287	1	03/25/2019 12:00	WG1254917
trans-1,2-Dichloroethene	U		0.00164	0.00575	1	03/25/2019 12:00	WG1254917
1,2-Dichloropropane	U		0.00146	0.00575	1	03/25/2019 12:00	WG1254917
1,1-Dichloropropene	U		0.000805	0.00287	1	03/25/2019 12:00	WG1254917
1,3-Dichloropropane	U		0.00201	0.00575	1	03/25/2019 12:00	WG1254917
cis-1,3-Dichloropropene	U		0.000779	0.00287	1	03/25/2019 12:00	WG1254917
trans-1,3-Dichloropropene	U		0.00176	0.00575	1	03/25/2019 12:00	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00161	0.00575	1	03/25/2019 12:00	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000911	0.00287	1	03/25/2019 12:00	WG1254917
Di-isopropyl ether	U		0.000402	0.00115	1	03/25/2019 12:00	WG1254917
Ethylbenzene	U		0.000609	0.00287	1	03/25/2019 12:00	WG1254917
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	03/25/2019 12:00	WG1254917
2-Hexanone	U		0.0115	0.0287	1	03/25/2019 12:00	WG1254917
n-Hexane	0.0109 J	J0	0.00122	0.00575	1	03/25/2019 12:00	WG1254917
Iodomethane	U		0.00695	0.0144	1	03/25/2019 12:00	WG1254917
Isopropylbenzene	U		0.000992	0.00287	1	03/25/2019 12:00	WG1254917
p-Isopropyltoluene	U		0.00268	0.00575	1	03/25/2019 12:00	WG1254917
2-Butanone (MEK)	U		0.0144	0.0287	1	03/25/2019 12:00	WG1254917
Methylene Chloride	U		0.00763	0.0287	1	03/25/2019 12:00	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	03/25/2019 12:00	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000339	0.00115	1	03/25/2019 12:00	WG1254917
Naphthalene	U		0.00359	0.0144	1	03/25/2019 12:00	WG1254917
n-Propylbenzene	U		0.00136	0.00575	1	03/25/2019 12:00	WG1254917
Styrene	U		0.00314	0.0144	1	03/25/2019 12:00	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000575	0.00287	1	03/25/2019 12:00	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	03/25/2019 12:00	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000776	0.00287	1	03/25/2019 12:00	WG1254917
Tetrachloroethene	0.604		0.000805	0.00287	1	03/25/2019 12:00	WG1254917
Toluene	0.00171 J	J	0.00144	0.00575	1	03/25/2019 12:00	WG1254917
1,2,3-Trichlorobenzene	U		0.000718	0.00287	1	03/25/2019 12:00	WG1254917
1,2,4-Trichlorobenzene	U		0.00554	0.0144	1	03/25/2019 12:00	WG1254917
1,1,1-Trichloroethane	U		0.000316	0.00287	1	03/25/2019 12:00	WG1254917
1,1,2-Trichloroethane	U		0.00101	0.00287	1	03/25/2019 12:00	WG1254917
Trichloroethene	0.0272		0.000460	0.00115	1	03/25/2019 12:00	WG1254917
Trichlorofluoromethane	U		0.000575	0.00287	1	03/25/2019 12:00	WG1254917
1,2,3-Trichloropropane	U		0.00586	0.0144	1	03/25/2019 12:00	WG1254917
1,2,4-Trimethylbenzene	U		0.00133	0.00575	1	03/25/2019 12:00	WG1254917
1,2,3-Trimethylbenzene	U		0.00132	0.00575	1	03/25/2019 12:00	WG1254917
1,3,5-Trimethylbenzene	U		0.00124	0.00575	1	03/25/2019 12:00	WG1254917
Vinyl acetate	U		0.00405	0.0144	1	03/25/2019 12:00	WG1254917
Vinyl chloride	U		0.000785	0.00287	1	03/25/2019 12:00	WG1254917
Xylenes, Total	U		0.00549	0.00747	1	03/25/2019 12:00	WG1254917
(S) Toluene-d8	*107*			*75.0-131*		*03/25/2019 12:00*	WG1254917
(S) Toluene-d8	*94.9*			*75.0-131*		*03/26/2019 16:31*	WG1255214
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*03/25/2019 12:00*	WG1254917
(S) 4-Bromofluorobenzene	*77.3*			*67.0-138*		*03/26/2019 16:31*	WG1255214
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/25/2019 12:00*	WG1254917
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/26/2019 16:31*	WG1255214

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.2		1	03/25/2019 10:55	WG1254490

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0155	0.0283	1	03/26/2019 16:50	WG1255214
Acrylonitrile	U		0.00215	0.0142	1	03/25/2019 12:19	WG1254917
Benzene	U		0.000454	0.00113	1	03/25/2019 12:19	WG1254917
Bromobenzene	U		0.00119	0.0142	1	03/25/2019 12:19	WG1254917
Bromodichloromethane	U		0.000893	0.00283	1	03/25/2019 12:19	WG1254917
Bromochloromethane	U UJ	J4	0.00128	0.00567	1	03/25/2019 12:19	WG1254917
Bromoform	U		0.00678	0.0283	1	03/25/2019 12:19	WG1254917
Bromomethane	U		0.00420	0.0142	1	03/25/2019 12:19	WG1254917
n-Butylbenzene	U		0.00435	0.0142	1	03/25/2019 12:19	WG1254917
sec-Butylbenzene	U		0.00287	0.0142	1	03/25/2019 12:19	WG1254917
tert-Butylbenzene	U		0.00176	0.00567	1	03/25/2019 12:19	WG1254917
Carbon disulfide	U		0.00460	0.0142	1	03/25/2019 12:19	WG1254917
Carbon tetrachloride	U		0.00122	0.00567	1	03/25/2019 12:19	WG1254917
Chlorobenzene	U		0.000650	0.00283	1	03/25/2019 12:19	WG1254917
Chlorodibromomethane	U		0.000510	0.00283	1	03/25/2019 12:19	WG1254917
Chloroethane	U		0.00122	0.00567	1	03/25/2019 12:19	WG1254917
Chloroform	U		0.000471	0.00283	1	03/25/2019 12:19	WG1254917
Chloromethane	U		0.00158	0.0142	1	03/25/2019 12:19	WG1254917
2-Chlorotoluene	U		0.00104	0.00283	1	03/25/2019 12:19	WG1254917
4-Chlorotoluene	U		0.00128	0.00567	1	03/25/2019 12:19	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00578	0.0283	1	03/25/2019 12:19	WG1254917
1,2-Dibromoethane	U		0.000595	0.00283	1	03/25/2019 12:19	WG1254917
Dibromomethane	U		0.00113	0.00567	1	03/25/2019 12:19	WG1254917
1,2-Dichlorobenzene	U		0.00164	0.00567	1	03/25/2019 12:19	WG1254917
1,3-Dichlorobenzene	U		0.00193	0.00567	1	03/25/2019 12:19	WG1254917
1,4-Dichlorobenzene	U		0.00223	0.00567	1	03/25/2019 12:19	WG1254917
Dichlorodifluoromethane	U		0.000927	0.00283	1	03/25/2019 12:19	WG1254917
1,1-Dichloroethane	U		0.000652	0.00283	1	03/25/2019 12:19	WG1254917
1,2-Dichloroethane	U		0.000539	0.00283	1	03/25/2019 12:19	WG1254917
1,1-Dichloroethene	U		0.000567	0.00283	1	03/25/2019 12:19	WG1254917
cis-1,2-Dichloroethene	0.324 J	J4	0.000782	0.00283	1	03/25/2019 12:19	WG1254917
trans-1,2-Dichloroethene	U		0.00162	0.00567	1	03/25/2019 12:19	WG1254917
1,2-Dichloropropane	U		0.00144	0.00567	1	03/25/2019 12:19	WG1254917
1,1-Dichloropropene	U		0.000794	0.00283	1	03/25/2019 12:19	WG1254917
1,3-Dichloropropane	U		0.00198	0.00567	1	03/25/2019 12:19	WG1254917
cis-1,3-Dichloropropene	U		0.000769	0.00283	1	03/25/2019 12:19	WG1254917
trans-1,3-Dichloropropene	U		0.00173	0.00567	1	03/25/2019 12:19	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00159	0.00567	1	03/25/2019 12:19	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000899	0.00283	1	03/25/2019 12:19	WG1254917
Di-isopropyl ether	U		0.000397	0.00113	1	03/25/2019 12:19	WG1254917
Ethylbenzene	U		0.000601	0.00283	1	03/25/2019 12:19	WG1254917
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	03/25/2019 12:19	WG1254917
2-Hexanone	U		0.0113	0.0283	1	03/25/2019 12:19	WG1254917
n-Hexane	U		0.00120	0.00567	1	03/25/2019 12:19	WG1254917
Iodomethane	U		0.00686	0.0142	1	03/25/2019 12:19	WG1254917
Isopropylbenzene	U		0.000978	0.00283	1	03/25/2019 12:19	WG1254917
p-Isopropyltoluene	U		0.00264	0.00567	1	03/25/2019 12:19	WG1254917
2-Butanone (MEK)	U		0.0142	0.0283	1	03/25/2019 12:19	WG1254917 JC 4/22/19
Methylene Chloride	U		0.00753	0.0283	1	03/25/2019 12:19	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	03/25/2019 12:19	WG1254917

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	03/25/2019 12:19	WG1254917
Naphthalene	U		0.00354	0.0142	1	03/25/2019 12:19	WG1254917
n-Propylbenzene	U		0.00134	0.00567	1	03/25/2019 12:19	WG1254917
Styrene	U		0.00310	0.0142	1	03/25/2019 12:19	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000567	0.00283	1	03/25/2019 12:19	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	03/25/2019 12:19	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000765	0.00283	1	03/25/2019 12:19	WG1254917
Tetrachloroethene	0.189		0.000794	0.00283	1	03/25/2019 12:19	WG1254917
Toluene	U		0.00142	0.00567	1	03/25/2019 12:19	WG1254917
1,2,3-Trichlorobenzene	U		0.000709	0.00283	1	03/25/2019 12:19	WG1254917
1,2,4-Trichlorobenzene	U		0.00547	0.0142	1	03/25/2019 12:19	WG1254917
1,1,1-Trichloroethane	U		0.000312	0.00283	1	03/25/2019 12:19	WG1254917
1,1,2-Trichloroethane	U		0.00100	0.00283	1	03/25/2019 12:19	WG1254917
Trichloroethene	0.0189		0.000454	0.00113	1	03/25/2019 12:19	WG1254917
Trichlorofluoromethane	U		0.000567	0.00283	1	03/25/2019 12:19	WG1254917
1,2,3-Trichloropropane	U		0.00578	0.0142	1	03/25/2019 12:19	WG1254917
1,2,4-Trimethylbenzene	U		0.00132	0.00567	1	03/25/2019 12:19	WG1254917
1,2,3-Trimethylbenzene	U		0.00130	0.00567	1	03/25/2019 12:19	WG1254917
1,3,5-Trimethylbenzene	U		0.00122	0.00567	1	03/25/2019 12:19	WG1254917
Vinyl acetate	U		0.00399	0.0142	1	03/25/2019 12:19	WG1254917
Vinyl chloride	0.0176		0.000774	0.00283	1	03/25/2019 12:19	WG1254917
Xylenes, Total	U		0.00542	0.00737	1	03/25/2019 12:19	WG1254917
(S) Toluene-d8	*105*			*75.0-131*		*03/25/2019 12:19*	WG1254917
(S) Toluene-d8	*92.8*			*75.0-131*		*03/26/2019 16:50*	WG1255214
(S) 4-Bromofluorobenzene	*93.4*			*67.0-138*		*03/25/2019 12:19*	WG1254917
(S) 4-Bromofluorobenzene	*80.7*			*67.0-138*		*03/26/2019 16:50*	WG1255214
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*03/25/2019 12:19*	WG1254917
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/26/2019 16:50*	WG1255214

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.8		1	03/25/2019 10:41	WG1254492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0160	0.0291	1	03/26/2019 17:10	WG1255214
Acrylonitrile	U		0.00221	0.0146	1	03/25/2019 12:39	WG1254917
Benzene	U		0.000466	0.00116	1	03/25/2019 12:39	WG1254917
Bromobenzene	U		0.00122	0.0146	1	03/25/2019 12:39	WG1254917
Bromodichloromethane	U		0.000918	0.00291	1	03/25/2019 12:39	WG1254917
Bromochloromethane	U	UJ J4	0.00132	0.00582	1	03/25/2019 12:39	WG1254917
Bromoform	U		0.00697	0.0291	1	03/25/2019 12:39	WG1254917
Bromomethane	U		0.00431	0.0146	1	03/25/2019 12:39	WG1254917
n-Butylbenzene	U		0.00447	0.0146	1	03/25/2019 12:39	WG1254917
sec-Butylbenzene	U		0.00295	0.0146	1	03/25/2019 12:39	WG1254917
tert-Butylbenzene	U		0.00181	0.00582	1	03/25/2019 12:39	WG1254917
Carbon disulfide	U		0.00473	0.0146	1	03/25/2019 12:39	WG1254917
Carbon tetrachloride	U		0.00126	0.00582	1	03/25/2019 12:39	WG1254917
Chlorobenzene	U		0.000667	0.00291	1	03/25/2019 12:39	WG1254917
Chlorodibromomethane	U		0.000524	0.00291	1	03/25/2019 12:39	WG1254917
Chloroethane	U		0.00126	0.00582	1	03/25/2019 12:39	WG1254917
Chloroform	U		0.000483	0.00291	1	03/25/2019 12:39	WG1254917
Chloromethane	U		0.00162	0.0146	1	03/25/2019 12:39	WG1254917
2-Chlorotoluene	U		0.00107	0.00291	1	03/25/2019 12:39	WG1254917
4-Chlorotoluene	U		0.00132	0.00582	1	03/25/2019 12:39	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00594	0.0291	1	03/25/2019 12:39	WG1254917
1,2-Dibromoethane	U		0.000612	0.00291	1	03/25/2019 12:39	WG1254917
Dibromomethane	U		0.00116	0.00582	1	03/25/2019 12:39	WG1254917
1,2-Dichlorobenzene	U		0.00169	0.00582	1	03/25/2019 12:39	WG1254917
1,3-Dichlorobenzene	U		0.00198	0.00582	1	03/25/2019 12:39	WG1254917
1,4-Dichlorobenzene	U		0.00229	0.00582	1	03/25/2019 12:39	WG1254917
Dichlorodifluoromethane	U		0.000953	0.00291	1	03/25/2019 12:39	WG1254917
1,1-Dichloroethane	U		0.000670	0.00291	1	03/25/2019 12:39	WG1254917
1,2-Dichloroethane	U		0.000553	0.00291	1	03/25/2019 12:39	WG1254917
1,1-Dichloroethene	U		0.000582	0.00291	1	03/25/2019 12:39	WG1254917
cis-1,2-Dichloroethene	0.0658	J J4	0.000804	0.00291	1	03/25/2019 12:39	WG1254917
trans-1,2-Dichloroethene	U		0.00167	0.00582	1	03/25/2019 12:39	WG1254917
1,2-Dichloropropane	U		0.00148	0.00582	1	03/25/2019 12:39	WG1254917
1,1-Dichloropropene	U		0.000815	0.00291	1	03/25/2019 12:39	WG1254917
1,3-Dichloropropane	U		0.00204	0.00582	1	03/25/2019 12:39	WG1254917
cis-1,3-Dichloropropene	U		0.000790	0.00291	1	03/25/2019 12:39	WG1254917
trans-1,3-Dichloropropene	U		0.00178	0.00582	1	03/25/2019 12:39	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00163	0.00582	1	03/25/2019 12:39	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000924	0.00291	1	03/25/2019 12:39	WG1254917
Di-isopropyl ether	U		0.000408	0.00116	1	03/25/2019 12:39	WG1254917
Ethylbenzene	0.000808	J J	0.000617	0.00291	1	03/25/2019 12:39	WG1254917
Hexachloro-1,3-butadiene	U		0.0148	0.0291	1	03/25/2019 12:39	WG1254917
2-Hexanone	U		0.0116	0.0291	1	03/25/2019 12:39	WG1254917
n-Hexane	0.0110	J J0	0.00123	0.00582	1	03/25/2019 12:39	WG1254917
Iodomethane	U		0.00705	0.0146	1	03/25/2019 12:39	WG1254917
Isopropylbenzene	U		0.00101	0.00291	1	03/25/2019 12:39	WG1254917
p-Isopropyltoluene	U		0.00271	0.00582	1	03/25/2019 12:39	WG1254917
2-Butanone (MEK)	U		0.0146	0.0291	1	03/25/2019 12:39	WG1254917
Methylene Chloride	U		0.00773	0.0291	1	03/25/2019 12:39	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0291	1	03/25/2019 12:39	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00116	1	03/25/2019 12:39	WG1254917
Naphthalene	U		0.00363	0.0146	1	03/25/2019 12:39	WG1254917
n-Propylbenzene	U		0.00137	0.00582	1	03/25/2019 12:39	WG1254917
Styrene	U		0.00318	0.0146	1	03/25/2019 12:39	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000582	0.00291	1	03/25/2019 12:39	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000454	0.00291	1	03/25/2019 12:39	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000786	0.00291	1	03/25/2019 12:39	WG1254917
Tetrachloroethene	0.212 J		0.000815	0.00291	1	03/25/2019 12:39	WG1254917
Toluene	0.00188 J	J	0.00146	0.00582	1	03/25/2019 12:39	WG1254917
1,2,3-Trichlorobenzene	U		0.000728	0.00291	1	03/25/2019 12:39	WG1254917
1,2,4-Trichlorobenzene	U		0.00561	0.0146	1	03/25/2019 12:39	WG1254917
1,1,1-Trichloroethane	U		0.000320	0.00291	1	03/25/2019 12:39	WG1254917
1,1,2-Trichloroethane	U		0.00103	0.00291	1	03/25/2019 12:39	WG1254917
Trichloroethene	0.00993 J		0.000466	0.00116	1	03/25/2019 12:39	WG1254917
Trichlorofluoromethane	U		0.000582	0.00291	1	03/25/2019 12:39	WG1254917
1,2,3-Trichloropropane	U		0.00594	0.0146	1	03/25/2019 12:39	WG1254917
1,2,4-Trimethylbenzene	U		0.00135	0.00582	1	03/25/2019 12:39	WG1254917
1,2,3-Trimethylbenzene	U		0.00134	0.00582	1	03/25/2019 12:39	WG1254917
1,3,5-Trimethylbenzene	U		0.00126	0.00582	1	03/25/2019 12:39	WG1254917
Vinyl acetate	U		0.00410	0.0146	1	03/25/2019 12:39	WG1254917
Vinyl chloride	U		0.000796	0.00291	1	03/25/2019 12:39	WG1254917
Xylenes, Total	U		0.00557	0.00757	1	03/25/2019 12:39	WG1254917
(S) Toluene-d8	*107*			*75.0-131*		*03/25/2019 12:39*	WG1254917
(S) Toluene-d8	*93.5*			*75.0-131*		*03/26/2019 17:10*	WG1255214
(S) 4-Bromofluorobenzene	*93.6*			*67.0-138*		*03/25/2019 12:39*	WG1254917
(S) 4-Bromofluorobenzene	*79.3*			*67.0-138*		*03/26/2019 17:10*	WG1255214
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/25/2019 12:39*	WG1254917
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/26/2019 17:10*	WG1255214

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.8		1	03/25/2019 10:41	WG1254492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.311	0.568	20.4	03/26/2019 21:25	WG1255214
Acrylonitrile	U		0.00221	0.0145	1.04	03/25/2019 12:58	WG1254917
Benzene	U		0.000463	0.00116	1.04	03/25/2019 12:58	WG1254917
Bromobenzene	U		0.00121	0.0145	1.04	03/25/2019 12:58	WG1254917
Bromodichloromethane	U		0.000913	0.00290	1.04	03/25/2019 12:58	WG1254917
Bromochloromethane	U	UJ J4	0.00131	0.00579	1.04	03/25/2019 12:58	WG1254917
Bromoform	U		0.00693	0.0290	1.04	03/25/2019 12:58	WG1254917
Bromomethane	U		0.00429	0.0145	1.04	03/25/2019 12:58	WG1254917
n-Butylbenzene	U		0.00444	0.0145	1.04	03/25/2019 12:58	WG1254917
sec-Butylbenzene	U		0.00293	0.0145	1.04	03/25/2019 12:58	WG1254917
tert-Butylbenzene	U		0.00179	0.00579	1.04	03/25/2019 12:58	WG1254917
Carbon disulfide	U		0.00470	0.0145	1.04	03/25/2019 12:58	WG1254917
Carbon tetrachloride	U		0.00125	0.00579	1.04	03/25/2019 12:58	WG1254917
Chlorobenzene	U		0.000664	0.00290	1.04	03/25/2019 12:58	WG1254917
Chlorodibromomethane	U		0.000521	0.00290	1.04	03/25/2019 12:58	WG1254917
Chloroethane	U		0.00125	0.00579	1.04	03/25/2019 12:58	WG1254917
Chloroform	U		0.000481	0.00290	1.04	03/25/2019 12:58	WG1254917
Chloromethane	U		0.00160	0.0145	1.04	03/25/2019 12:58	WG1254917
2-Chlorotoluene	U		0.00107	0.00290	1.04	03/25/2019 12:58	WG1254917
4-Chlorotoluene	U		0.00131	0.00579	1.04	03/25/2019 12:58	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00590	0.0290	1.04	03/25/2019 12:58	WG1254917
1,2-Dibromoethane	U		0.000608	0.00290	1.04	03/25/2019 12:58	WG1254917
Dibromomethane	U		0.00116	0.00579	1.04	03/25/2019 12:58	WG1254917
1,2-Dichlorobenzene	U		0.00168	0.00579	1.04	03/25/2019 12:58	WG1254917
1,3-Dichlorobenzene	U		0.00197	0.00579	1.04	03/25/2019 12:58	WG1254917
1,4-Dichlorobenzene	U		0.00228	0.00579	1.04	03/25/2019 12:58	WG1254917
Dichlorodifluoromethane	U		0.000948	0.00290	1.04	03/25/2019 12:58	WG1254917
1,1-Dichloroethane	U		0.000666	0.00290	1.04	03/25/2019 12:58	WG1254917
1,2-Dichloroethane	U		0.000550	0.00290	1.04	03/25/2019 12:58	WG1254917
1,1-Dichloroethene	U		0.000579	0.00290	1.04	03/25/2019 12:58	WG1254917
cis-1,2-Dichloroethene	0.126	J J4	0.000800	0.00290	1.04	03/25/2019 12:58	WG1254917
trans-1,2-Dichloroethene	U		0.00166	0.00579	1.04	03/25/2019 12:58	WG1254917
1,2-Dichloropropane	U		0.00147	0.00579	1.04	03/25/2019 12:58	WG1254917
1,1-Dichloropropene	U		0.000811	0.00290	1.04	03/25/2019 12:58	WG1254917
1,3-Dichloropropane	U		0.00203	0.00579	1.04	03/25/2019 12:58	WG1254917
cis-1,3-Dichloropropene	U		0.000785	0.00290	1.04	03/25/2019 12:58	WG1254917
trans-1,3-Dichloropropene	U		0.00177	0.00579	1.04	03/25/2019 12:58	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00163	0.00579	1.04	03/25/2019 12:58	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000919	0.00290	1.04	03/25/2019 12:58	WG1254917
Di-isopropyl ether	U		0.000405	0.00116	1.04	03/25/2019 12:58	WG1254917
Ethylbenzene	U		0.000614	0.00290	1.04	03/25/2019 12:58	WG1254917
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1.04	03/25/2019 12:58	WG1254917
2-Hexanone	U		0.0116	0.0290	1.04	03/25/2019 12:58	WG1254917
n-Hexane	U		0.00123	0.00579	1.04	03/25/2019 12:58	WG1254917
Iodomethane	U		0.00701	0.0145	1.04	03/25/2019 12:58	WG1254917
Isopropylbenzene	U		0.00100	0.00290	1.04	03/25/2019 12:58	WG1254917
p-Isopropyltoluene	U		0.00270	0.00579	1.04	03/25/2019 12:58	WG1254917
2-Butanone (MEK)	U		0.0145	0.0290	1.04	03/25/2019 12:58	WG1254917
Methylene Chloride	U		0.00769	0.0290	1.04	03/25/2019 12:58	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1.04	03/25/2019 12:58	WG1254917

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1.04	03/25/2019 12:58	WG1254917
Naphthalene	U		0.00361	0.0145	1.04	03/25/2019 12:58	WG1254917
n-Propylbenzene	U		0.00137	0.00579	1.04	03/25/2019 12:58	WG1254917
Styrene	U		0.00316	0.0145	1.04	03/25/2019 12:58	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1.04	03/25/2019 12:58	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1.04	03/25/2019 12:58	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1.04	03/25/2019 12:58	WG1254917
Tetrachloroethene	7.74		0.0159	0.0568	20.4	03/26/2019 21:25	WG1255214
Toluene	U		0.00145	0.00579	1.04	03/25/2019 12:58	WG1254917
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1.04	03/25/2019 12:58	WG1254917
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1.04	03/25/2019 12:58	WG1254917
1,1,1-Trichloroethane	U		0.000319	0.00290	1.04	03/25/2019 12:58	WG1254917
1,1,2-Trichloroethane	U		0.00102	0.00290	1.04	03/25/2019 12:58	WG1254917
Trichloroethene	0.222		0.000463	0.00116	1.04	03/25/2019 12:58	WG1254917
Trichlorofluoromethane	U		0.000579	0.00290	1.04	03/25/2019 12:58	WG1254917
1,2,3-Trichloropropane	U		0.00590	0.0145	1.04	03/25/2019 12:58	WG1254917
1,2,4-Trimethylbenzene	U		0.00135	0.00579	1.04	03/25/2019 12:58	WG1254917
1,2,3-Trimethylbenzene	U		0.00134	0.00579	1.04	03/25/2019 12:58	WG1254917
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1.04	03/25/2019 12:58	WG1254917
Vinyl acetate	U		0.00408	0.0145	1.04	03/25/2019 12:58	WG1254917
Vinyl chloride	U		0.000791	0.00290	1.04	03/25/2019 12:58	WG1254917
Xylenes, Total	U		0.00554	0.00753	1.04	03/25/2019 12:58	WG1254917
(S) Toluene-d8	*107*			*75.0-131*		*03/25/2019 12:58*	WG1254917
(S) Toluene-d8	*90.1*			*75.0-131*		*03/26/2019 21:25*	WG1255214
(S) 4-Bromofluorobenzene	*93.3*			*67.0-138*		*03/25/2019 12:58*	WG1254917
(S) 4-Bromofluorobenzene	*76.5*			*67.0-138*		*03/26/2019 21:25*	WG1255214
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/25/2019 12:58*	WG1254917
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*03/26/2019 21:25*	WG1255214

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.2		1	03/25/2019 10:41	WG1254492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0287	1	03/26/2019 17:30	WG1255214
Acrylonitrile	U		0.00218	0.0143	1	03/25/2019 13:24	WG1254917
Benzene	0.000779 J	J	0.000459	0.00115	1	03/25/2019 13:24	WG1254917
Bromobenzene	U		0.00120	0.0143	1	03/25/2019 13:24	WG1254917
Bromodichloromethane	U		0.000904	0.00287	1	03/25/2019 13:24	WG1254917
Bromochloromethane	U UJ	J4	0.00130	0.00573	1	03/25/2019 13:24	WG1254917
Bromoform	U		0.00686	0.0287	1	03/25/2019 13:24	WG1254917
Bromomethane	U		0.00424	0.0143	1	03/25/2019 13:24	WG1254917
n-Butylbenzene	U		0.00440	0.0143	1	03/25/2019 13:24	WG1254917
sec-Butylbenzene	U		0.00290	0.0143	1	03/25/2019 13:24	WG1254917
tert-Butylbenzene	U		0.00178	0.00573	1	03/25/2019 13:24	WG1254917
Carbon disulfide	U		0.00466	0.0143	1	03/25/2019 13:24	WG1254917
Carbon tetrachloride	U		0.00124	0.00573	1	03/25/2019 13:24	WG1254917
Chlorobenzene	U		0.000657	0.00287	1	03/25/2019 13:24	WG1254917
Chlorodibromomethane	U		0.000516	0.00287	1	03/25/2019 13:24	WG1254917
Chloroethane	U		0.00124	0.00573	1	03/25/2019 13:24	WG1254917
Chloroform	U		0.000476	0.00287	1	03/25/2019 13:24	WG1254917
Chloromethane	U		0.00159	0.0143	1	03/25/2019 13:24	WG1254917
2-Chlorotoluene	U		0.00105	0.00287	1	03/25/2019 13:24	WG1254917
4-Chlorotoluene	U		0.00130	0.00573	1	03/25/2019 13:24	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00585	0.0287	1	03/25/2019 13:24	WG1254917
1,2-Dibromoethane	U		0.000602	0.00287	1	03/25/2019 13:24	WG1254917
Dibromomethane	U		0.00115	0.00573	1	03/25/2019 13:24	WG1254917
1,2-Dichlorobenzene	U		0.00166	0.00573	1	03/25/2019 13:24	WG1254917
1,3-Dichlorobenzene	U		0.00195	0.00573	1	03/25/2019 13:24	WG1254917
1,4-Dichlorobenzene	U		0.00226	0.00573	1	03/25/2019 13:24	WG1254917
Dichlorodifluoromethane	U		0.000938	0.00287	1	03/25/2019 13:24	WG1254917
1,1-Dichloroethane	U		0.000659	0.00287	1	03/25/2019 13:24	WG1254917
1,2-Dichloroethane	U		0.000545	0.00287	1	03/25/2019 13:24	WG1254917
1,1-Dichloroethene	U		0.000573	0.00287	1	03/25/2019 13:24	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000791	0.00287	1	03/25/2019 13:24	WG1254917
trans-1,2-Dichloroethene	U		0.00164	0.00573	1	03/25/2019 13:24	WG1254917
1,2-Dichloropropane	U		0.00146	0.00573	1	03/25/2019 13:24	WG1254917
1,1-Dichloropropene	U		0.000803	0.00287	1	03/25/2019 13:24	WG1254917
1,3-Dichloropropane	U		0.00201	0.00573	1	03/25/2019 13:24	WG1254917
cis-1,3-Dichloropropene	U		0.000777	0.00287	1	03/25/2019 13:24	WG1254917
trans-1,3-Dichloropropene	U		0.00175	0.00573	1	03/25/2019 13:24	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00161	0.00573	1	03/25/2019 13:24	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000909	0.00287	1	03/25/2019 13:24	WG1254917
Di-isopropyl ether	U		0.000401	0.00115	1	03/25/2019 13:24	WG1254917
Ethylbenzene	U		0.000608	0.00287	1	03/25/2019 13:24	WG1254917
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	03/25/2019 13:24	WG1254917
2-Hexanone	U		0.0115	0.0287	1	03/25/2019 13:24	WG1254917
n-Hexane	0.0138 J	J0	0.00122	0.00573	1	03/25/2019 13:24	WG1254917
Iodomethane	U		0.00694	0.0143	1	03/25/2019 13:24	WG1254917
Isopropylbenzene	U		0.000990	0.00287	1	03/25/2019 13:24	WG1254917
p-Isopropyltoluene	U		0.00267	0.00573	1	03/25/2019 13:24	WG1254917
2-Butanone (MEK)	U		0.0143	0.0287	1	03/25/2019 13:24	WG1254917
Methylene Chloride	U		0.00761	0.0287	1	03/25/2019 13:24	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	03/25/2019 13:24	WG1254917

JC 4/22/19

B19D19-50

Collected date/time: 03/18/19 12:05

SAMPLE RESULTS - 09

L1081046

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000338	0.00115	1	03/25/2019 13:24	WG1254917
Naphthalene	U		0.00358	0.0143	1	03/25/2019 13:24	WG1254917
n-Propylbenzene	U		0.00135	0.00573	1	03/25/2019 13:24	WG1254917
Styrene	U		0.00313	0.0143	1	03/25/2019 13:24	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000573	0.00287	1	03/25/2019 13:24	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000447	0.00287	1	03/25/2019 13:24	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000774	0.00287	1	03/25/2019 13:24	WG1254917
Tetrachloroethene	0.00329		0.000803	0.00287	1	03/26/2019 17:30	WG1255214
Toluene	0.00247 J	J	0.00143	0.00573	1	03/25/2019 13:24	WG1254917
1,2,3-Trichlorobenzene	U		0.000717	0.00287	1	03/25/2019 13:24	WG1254917
1,2,4-Trichlorobenzene	U		0.00553	0.0143	1	03/25/2019 13:24	WG1254917
1,1,1-Trichloroethane	U		0.000315	0.00287	1	03/25/2019 13:24	WG1254917
1,1,2-Trichloroethane	U		0.00101	0.00287	1	03/25/2019 13:24	WG1254917
Trichloroethene	U		0.000459	0.00115	1	03/25/2019 13:24	WG1254917
Trichlorofluoromethane	U		0.000573	0.00287	1	03/25/2019 13:24	WG1254917
1,2,3-Trichloropropane	U		0.00585	0.0143	1	03/25/2019 13:24	WG1254917
1,2,4-Trimethylbenzene	U		0.00133	0.00573	1	03/25/2019 13:24	WG1254917
1,2,3-Trimethylbenzene	U		0.00132	0.00573	1	03/25/2019 13:24	WG1254917
1,3,5-Trimethylbenzene	U		0.00124	0.00573	1	03/25/2019 13:24	WG1254917
Vinyl acetate	U		0.00404	0.0143	1	03/25/2019 13:24	WG1254917
Vinyl chloride	U		0.000783	0.00287	1	03/25/2019 13:24	WG1254917
Xylenes, Total	U		0.00548	0.00745	1	03/25/2019 13:24	WG1254917
(S) Toluene-d8	*106*			*75.0-131*		*03/25/2019 13:24*	WG1254917
(S) Toluene-d8	*95.1*			*75.0-131*		*03/26/2019 17:30*	WG1255214
(S) 4-Bromofluorobenzene	*90.9*			*67.0-138*		*03/25/2019 13:24*	WG1254917
(S) 4-Bromofluorobenzene	*78.5*			*67.0-138*		*03/26/2019 17:30*	WG1255214
(S) 1,2-Dichloroethane-d4	*99.3*			*70.0-130*		*03/25/2019 13:24*	WG1254917
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/26/2019 17:30*	WG1255214

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.8		1	03/25/2019 10:41	WG1254492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0158	0.0288	1	03/26/2019 17:49	WG1255214
Acrylonitrile	U		0.00219	0.0144	1	03/25/2019 16:16	WG1254917
Benzene	0.000769	J J	0.000461	0.00115	1	03/25/2019 16:16	WG1254917
Bromobenzene	U		0.00121	0.0144	1	03/25/2019 16:16	WG1254917
Bromodichloromethane	U		0.000908	0.00288	1	03/25/2019 16:16	WG1254917
Bromochloromethane	U	UJ J4	0.00130	0.00576	1	03/25/2019 16:16	WG1254917
Bromoform	U		0.00689	0.0288	1	03/25/2019 16:16	WG1254917
Bromomethane	U		0.00426	0.0144	1	03/25/2019 16:16	WG1254917
n-Butylbenzene	U		0.00442	0.0144	1	03/25/2019 16:16	WG1254917
sec-Butylbenzene	U		0.00292	0.0144	1	03/25/2019 16:16	WG1254917
tert-Butylbenzene	U		0.00179	0.00576	1	03/25/2019 16:16	WG1254917
Carbon disulfide	U		0.00468	0.0144	1	03/25/2019 16:16	WG1254917
Carbon tetrachloride	U		0.00124	0.00576	1	03/25/2019 16:16	WG1254917
Chlorobenzene	U		0.000660	0.00288	1	03/25/2019 16:16	WG1254917
Chlorodibromomethane	U		0.000519	0.00288	1	03/25/2019 16:16	WG1254917
Chloroethane	U		0.00124	0.00576	1	03/25/2019 16:16	WG1254917
Chloroform	U		0.000478	0.00288	1	03/25/2019 16:16	WG1254917
Chloromethane	U		0.00160	0.0144	1	03/25/2019 16:16	WG1254917
2-Chlorotoluene	U		0.00106	0.00288	1	03/25/2019 16:16	WG1254917
4-Chlorotoluene	U		0.00130	0.00576	1	03/25/2019 16:16	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00588	0.0288	1	03/25/2019 16:16	WG1254917
1,2-Dibromoethane	U		0.000605	0.00288	1	03/25/2019 16:16	WG1254917
Dibromomethane	U		0.00115	0.00576	1	03/25/2019 16:16	WG1254917
1,2-Dichlorobenzene	U		0.00167	0.00576	1	03/25/2019 16:16	WG1254917
1,3-Dichlorobenzene	U		0.00196	0.00576	1	03/25/2019 16:16	WG1254917
1,4-Dichlorobenzene	U		0.00227	0.00576	1	03/25/2019 16:16	WG1254917
Dichlorodifluoromethane	U		0.000943	0.00288	1	03/25/2019 16:16	WG1254917
1,1-Dichloroethane	U		0.000663	0.00288	1	03/25/2019 16:16	WG1254917
1,2-Dichloroethane	U		0.000547	0.00288	1	03/25/2019 16:16	WG1254917
1,1-Dichloroethene	U		0.000576	0.00288	1	03/25/2019 16:16	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000795	0.00288	1	03/25/2019 16:16	WG1254917
trans-1,2-Dichloroethene	U		0.00165	0.00576	1	03/25/2019 16:16	WG1254917
1,2-Dichloropropane	U		0.00146	0.00576	1	03/25/2019 16:16	WG1254917
1,1-Dichloropropene	U		0.000807	0.00288	1	03/25/2019 16:16	WG1254917
1,3-Dichloropropane	U		0.00202	0.00576	1	03/25/2019 16:16	WG1254917
cis-1,3-Dichloropropene	U		0.000781	0.00288	1	03/25/2019 16:16	WG1254917
trans-1,3-Dichloropropene	U		0.00176	0.00576	1	03/25/2019 16:16	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00161	0.00576	1	03/25/2019 16:16	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000914	0.00288	1	03/25/2019 16:16	WG1254917
Di-isopropyl ether	U		0.000403	0.00115	1	03/25/2019 16:16	WG1254917
Ethylbenzene	U	UJ J4	0.000611	0.00288	1	03/26/2019 17:49	WG1255214
Hexachloro-1,3-butadiene	U		0.0146	0.0288	1	03/25/2019 16:16	WG1254917
2-Hexanone	U		0.0115	0.0288	1	03/25/2019 16:16	WG1254917
n-Hexane	0.00653	UJ J0	0.00122	0.00576	1	03/25/2019 16:16	WG1254917
Iodomethane	U		0.00697	0.0144	1	03/25/2019 16:16	WG1254917
Isopropylbenzene	U		0.000994	0.00288	1	03/25/2019 16:16	WG1254917
p-Isopropyltoluene	U		0.00268	0.00576	1	03/25/2019 16:16	WG1254917
2-Butanone (MEK)	U		0.0144	0.0288	1	03/25/2019 16:16	WG1254917
Methylene Chloride	U		0.00765	0.0288	1	03/25/2019 16:16	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0288	1	03/25/2019 16:16	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000340	0.00115	1	03/25/2019 16:16	WG1254917
Naphthalene	U		0.00360	0.0144	1	03/26/2019 17:49	WG1255214
n-Propylbenzene	U		0.00136	0.00576	1	03/26/2019 17:49	WG1255214
Styrene	U		0.00315	0.0144	1	03/25/2019 16:16	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000576	0.00288	1	03/25/2019 16:16	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000449	0.00288	1	03/25/2019 16:16	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000778	0.00288	1	03/25/2019 16:16	WG1254917
Tetrachloroethene	U		0.000807	0.00288	1	03/25/2019 16:16	WG1254917
Toluene	0.00173	J J	0.00144	0.00576	1	03/25/2019 16:16	WG1254917
1,2,3-Trichlorobenzene	U		0.000720	0.00288	1	03/25/2019 16:16	WG1254917
1,2,4-Trichlorobenzene	U		0.00555	0.0144	1	03/25/2019 16:16	WG1254917
1,1,1-Trichloroethane	U		0.000317	0.00288	1	03/25/2019 16:16	WG1254917
1,1,2-Trichloroethane	U		0.00102	0.00288	1	03/25/2019 16:16	WG1254917
Trichloroethene	U		0.000461	0.00115	1	03/25/2019 16:16	WG1254917
Trichlorofluoromethane	U		0.000576	0.00288	1	03/25/2019 16:16	WG1254917
1,2,3-Trichloropropane	U		0.00588	0.0144	1	03/25/2019 16:16	WG1254917
1,2,4-Trimethylbenzene	U		0.00134	0.00576	1	03/26/2019 17:49	WG1255214
1,2,3-Trimethylbenzene	U		0.00133	0.00576	1	03/26/2019 17:49	WG1255214
1,3,5-Trimethylbenzene	U		0.00124	0.00576	1	03/26/2019 17:49	WG1255214
Vinyl acetate	U		0.00406	0.0144	1	03/25/2019 16:16	WG1254917
Vinyl chloride	U		0.000787	0.00288	1	03/25/2019 16:16	WG1254917
Xylenes, Total	U	UJ J4	0.00551	0.00749	1	03/26/2019 17:49	WG1255214
(S) Toluene-d8	*106*			*75.0-131*		*03/25/2019 16:16*	WG1254917
(S) Toluene-d8	*94.6*			*75.0-131*		*03/26/2019 17:49*	WG1255214
(S) 4-Bromofluorobenzene	*93.6*			*67.0-138*		*03/25/2019 16:16*	WG1254917
(S) 4-Bromofluorobenzene	*77.5*			*67.0-138*		*03/26/2019 17:49*	WG1255214
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*		*03/25/2019 16:16*	WG1254917
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/26/2019 17:49*	WG1255214

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.3		1	03/25/2019 10:41	WG1254492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U			0.0153	0.0280	1	03/26/2019 18:09	WG1255751
Acrylonitrile	U			0.00213	0.0140	1	03/25/2019 16:57	WG1254917
Benzene	U			0.000448	0.00112	1	03/25/2019 16:57	WG1254917
Bromobenzene	U			0.00118	0.0140	1	03/25/2019 16:57	WG1254917
Bromodichloromethane	U			0.000883	0.00280	1	03/25/2019 16:57	WG1254917
Bromochloromethane	U	UJ	J4	0.00127	0.00560	1	03/25/2019 16:57	WG1254917
Bromoform	U			0.00670	0.0280	1	03/25/2019 16:57	WG1254917
Bromomethane	U			0.00415	0.0140	1	03/25/2019 16:57	WG1254917
n-Butylbenzene	U			0.00430	0.0140	1	03/25/2019 16:57	WG1254917
sec-Butylbenzene	U			0.00283	0.0140	1	03/25/2019 16:57	WG1254917
tert-Butylbenzene	U			0.00174	0.00560	1	03/25/2019 16:57	WG1254917
Carbon disulfide	0.00535	J	J	0.00455	0.0140	1	03/25/2019 16:57	WG1254917
Carbon tetrachloride	U			0.00121	0.00560	1	03/25/2019 16:57	WG1254917
Chlorobenzene	U			0.000642	0.00280	1	03/25/2019 16:57	WG1254917
Chlorodibromomethane	U			0.000504	0.00280	1	03/25/2019 16:57	WG1254917
Chloroethane	U			0.00121	0.00560	1	03/25/2019 16:57	WG1254917
Chloroform	U			0.000465	0.00280	1	03/25/2019 16:57	WG1254917
Chloromethane	U			0.00156	0.0140	1	03/25/2019 16:57	WG1254917
2-Chlorotoluene	U			0.00103	0.00280	1	03/25/2019 16:57	WG1254917
4-Chlorotoluene	U			0.00127	0.00560	1	03/25/2019 16:57	WG1254917
1,2-Dibromo-3-Chloropropane	U			0.00571	0.0280	1	03/25/2019 16:57	WG1254917
1,2-Dibromoethane	U			0.000588	0.00280	1	03/25/2019 16:57	WG1254917
Dibromomethane	U			0.00112	0.00560	1	03/25/2019 16:57	WG1254917
1,2-Dichlorobenzene	U			0.00162	0.00560	1	03/25/2019 16:57	WG1254917
1,3-Dichlorobenzene	U			0.00190	0.00560	1	03/25/2019 16:57	WG1254917
1,4-Dichlorobenzene	U			0.00221	0.00560	1	03/25/2019 16:57	WG1254917
Dichlorodifluoromethane	U			0.000916	0.00280	1	03/25/2019 16:57	WG1254917
1,1-Dichloroethane	U			0.000644	0.00280	1	03/25/2019 16:57	WG1254917
1,2-Dichloroethane	U			0.000532	0.00280	1	03/25/2019 16:57	WG1254917
1,1-Dichloroethene	U			0.000560	0.00280	1	03/25/2019 16:57	WG1254917
cis-1,2-Dichloroethene	U		~~J4~~	0.000773	0.00280	1	03/25/2019 16:57	WG1254917
trans-1,2-Dichloroethene	U			0.00160	0.00560	1	03/25/2019 16:57	WG1254917
1,2-Dichloropropane	U			0.00142	0.00560	1	03/25/2019 16:57	WG1254917
1,1-Dichloropropene	U			0.000784	0.00280	1	03/25/2019 16:57	WG1254917
1,3-Dichloropropane	U			0.00196	0.00560	1	03/25/2019 16:57	WG1254917
cis-1,3-Dichloropropene	U			0.000760	0.00280	1	03/25/2019 16:57	WG1254917
trans-1,3-Dichloropropene	U			0.00171	0.00560	1	03/25/2019 16:57	WG1254917
trans-1,4-Dichloro-2-butene	U			0.00157	0.00560	1	03/25/2019 16:57	WG1254917
2,2-Dichloropropane	U		~~J4~~	0.000888	0.00280	1	03/25/2019 16:57	WG1254917
Di-isopropyl ether	U			0.000392	0.00112	1	03/25/2019 16:57	WG1254917
Ethylbenzene	0.000613	J	J J4	0.000594	0.00280	1	03/26/2019 18:09	WG1255751
Hexachloro-1,3-butadiene	U			0.0142	0.0280	1	03/25/2019 16:57	WG1254917
2-Hexanone	U			0.0112	0.0280	1	03/25/2019 16:57	WG1254917
n-Hexane	U			0.00119	0.00560	1	03/25/2019 16:57	WG1254917
Iodomethane	U			0.00678	0.0140	1	03/25/2019 16:57	WG1254917
Isopropylbenzene	U			0.000967	0.00280	1	03/25/2019 16:57	WG1254917
p-Isopropyltoluene	U			0.00261	0.00560	1	03/25/2019 16:57	WG1254917
2-Butanone (MEK)	0.0166	J	J	0.0140	0.0280	1	03/25/2019 16:57	WG1254917
Methylene Chloride	U			0.00744	0.0280	1	03/25/2019 16:57	WG1254917
4-Methyl-2-pentanone (MIBK)	U			0.0112	0.0280	1	03/25/2019 16:57	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	03/25/2019 16:57	WG1254917
Naphthalene	U		0.00350	0.0140	1	03/26/2019 18:09	WG1255751
n-Propylbenzene	U		0.00132	0.00560	1	03/26/2019 18:09	WG1255751
Styrene	U		0.00306	0.0140	1	03/25/2019 16:57	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000560	0.00280	1	03/25/2019 16:57	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000437	0.00280	1	03/25/2019 16:57	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000756	0.00280	1	03/25/2019 16:57	WG1254917
Tetrachloroethene	U		0.000784	0.00280	1	03/25/2019 16:57	WG1254917
Toluene	0.00253 J	J	0.00140	0.00560	1	03/25/2019 16:57	WG1254917
1,2,3-Trichlorobenzene	U		0.000700	0.00280	1	03/25/2019 16:57	WG1254917
1,2,4-Trichlorobenzene	U		0.00540	0.0140	1	03/25/2019 16:57	WG1254917
1,1,1-Trichloroethane	U		0.000308	0.00280	1	03/25/2019 16:57	WG1254917
1,1,2-Trichloroethane	U		0.000989	0.00280	1	03/25/2019 16:57	WG1254917
Trichloroethene	U		0.000448	0.00112	1	03/25/2019 16:57	WG1254917
Trichlorofluoromethane	U		0.000560	0.00280	1	03/25/2019 16:57	WG1254917
1,2,3-Trichloropropane	U		0.00571	0.0140	1	03/25/2019 16:57	WG1254917
1,2,4-Trimethylbenzene	U		0.00130	0.00560	1	03/26/2019 18:09	WG1255751
1,2,3-Trimethylbenzene	U		0.00129	0.00560	1	03/26/2019 18:09	WG1255751
1,3,5-Trimethylbenzene	U		0.00121	0.00560	1	03/26/2019 18:09	WG1255751
Vinyl acetate	U		0.00394	0.0140	1	03/25/2019 16:57	WG1254917
Vinyl chloride	U		0.000765	0.00280	1	03/25/2019 16:57	WG1254917
Xylenes, Total	U		0.00536	0.00728	1	03/25/2019 16:57	WG1254917
(S) Toluene-d8	*106*			*75.0-131*		*03/25/2019 16:57*	WG1254917
(S) Toluene-d8	*92.8*			*75.0-131*		*03/26/2019 18:09*	WG1255751
(S) 4-Bromofluorobenzene	*93.2*			*67.0-138*		*03/25/2019 16:57*	WG1254917
(S) 4-Bromofluorobenzene	*82.6*			*67.0-138*		*03/26/2019 18:09*	WG1255751
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/25/2019 16:57*	WG1254917
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/26/2019 18:09*	WG1255751

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.3		1	03/25/2019 10:41	WG1254492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0196 J	J	0.0173	0.0317	1.07	03/26/2019 18:29	WG1255751
Acrylonitrile	U		0.00241	0.0159	1.07	03/25/2019 17:16	WG1254917
Benzene	U		0.000508	0.00127	1.07	03/25/2019 17:16	WG1254917
Bromobenzene	U		0.00133	0.0159	1.07	03/25/2019 17:16	WG1254917
Bromodichloromethane	U		0.00100	0.00317	1.07	03/25/2019 17:16	WG1254917
Bromochloromethane	U UJ	J4	0.00143	0.00634	1.07	03/25/2019 17:16	WG1254917
Bromoform	U		0.00759	0.0317	1.07	03/25/2019 17:16	WG1254917
Bromomethane	U		0.00470	0.0159	1.07	03/25/2019 17:16	WG1254917
n-Butylbenzene	U		0.00487	0.0159	1.07	03/25/2019 17:16	WG1254917
sec-Butylbenzene	U		0.00321	0.0159	1.07	03/25/2019 17:16	WG1254917
tert-Butylbenzene	U		0.00197	0.00634	1.07	03/25/2019 17:16	WG1254917
Carbon disulfide	U		0.00515	0.0159	1.07	03/25/2019 17:16	WG1254917
Carbon tetrachloride	U		0.00138	0.00634	1.07	03/25/2019 17:16	WG1254917
Chlorobenzene	U		0.000727	0.00317	1.07	03/25/2019 17:16	WG1254917
Chlorodibromomethane	U		0.000572	0.00317	1.07	03/25/2019 17:16	WG1254917
Chloroethane	U		0.00138	0.00634	1.07	03/25/2019 17:16	WG1254917
Chloroform	U		0.000527	0.00317	1.07	03/25/2019 17:16	WG1254917
Chloromethane	U		0.00177	0.0159	1.07	03/25/2019 17:16	WG1254917
2-Chlorotoluene	U		0.00117	0.00317	1.07	03/25/2019 17:16	WG1254917
4-Chlorotoluene	U		0.00143	0.00634	1.07	03/25/2019 17:16	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00648	0.0317	1.07	03/25/2019 17:16	WG1254917
1,2-Dibromoethane	U		0.000666	0.00317	1.07	03/25/2019 17:16	WG1254917
Dibromomethane	U		0.00127	0.00634	1.07	03/25/2019 17:16	WG1254917
1,2-Dichlorobenzene	U		0.00184	0.00634	1.07	03/25/2019 17:16	WG1254917
1,3-Dichlorobenzene	U		0.00216	0.00634	1.07	03/25/2019 17:16	WG1254917
1,4-Dichlorobenzene	U		0.00250	0.00634	1.07	03/25/2019 17:16	WG1254917
Dichlorodifluoromethane	U		0.00104	0.00317	1.07	03/25/2019 17:16	WG1254917
1,1-Dichloroethane	U		0.000729	0.00317	1.07	03/25/2019 17:16	WG1254917
1,2-Dichloroethane	U		0.000602	0.00317	1.07	03/25/2019 17:16	WG1254917
1,1-Dichloroethene	U		0.000634	0.00317	1.07	03/25/2019 17:16	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000875	0.00317	1.07	03/25/2019 17:16	WG1254917
trans-1,2-Dichloroethene	U		0.00181	0.00634	1.07	03/25/2019 17:16	WG1254917
1,2-Dichloropropane	U		0.00161	0.00634	1.07	03/25/2019 17:16	WG1254917
1,1-Dichloropropene	U		0.000888	0.00317	1.07	03/25/2019 17:16	WG1254917
1,3-Dichloropropane	U		0.00222	0.00634	1.07	03/25/2019 17:16	WG1254917
cis-1,3-Dichloropropene	U		0.000860	0.00317	1.07	03/25/2019 17:16	WG1254917
trans-1,3-Dichloropropene	U		0.00194	0.00634	1.07	03/25/2019 17:16	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00178	0.00634	1.07	03/25/2019 17:16	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.00101	0.00317	1.07	03/25/2019 17:16	WG1254917
Di-isopropyl ether	U		0.000444	0.00127	1.07	03/25/2019 17:16	WG1254917
Ethylbenzene	U UJ	J4	0.000672	0.00317	1.07	03/26/2019 18:29	WG1255751
Hexachloro-1,3-butadiene	U		0.0161	0.0317	1.07	03/25/2019 17:16	WG1254917
2-Hexanone	U		0.0127	0.0317	1.07	03/25/2019 17:16	WG1254917
n-Hexane	U		0.00134	0.00634	1.07	03/25/2019 17:16	WG1254917
Iodomethane	U		0.00767	0.0159	1.07	03/25/2019 17:16	WG1254917
Isopropylbenzene	U		0.00109	0.00317	1.07	03/25/2019 17:16	WG1254917
p-Isopropyltoluene	U		0.00295	0.00634	1.07	03/25/2019 17:16	WG1254917
2-Butanone (MEK)	U		0.0159	0.0317	1.07	03/25/2019 17:16	WG1254917
Methylene Chloride	U		0.00842	0.0317	1.07	03/25/2019 17:16	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0127	0.0317	1.07	03/25/2019 17:16	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000375	0.00127	1.07	03/25/2019 17:16	WG1254917
Naphthalene	U		0.00396	0.0159	1.07	03/25/2019 17:16	WG1254917
n-Propylbenzene	U		0.00149	0.00634	1.07	03/25/2019 17:16	WG1254917
Styrene	U		0.00346	0.0159	1.07	03/25/2019 17:16	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000634	0.00317	1.07	03/25/2019 17:16	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000495	0.00317	1.07	03/25/2019 17:16	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000856	0.00317	1.07	03/25/2019 17:16	WG1254917
Tetrachloroethene	U		0.000888	0.00317	1.07	03/25/2019 17:16	WG1254917
Toluene	0.00244 J	J	0.00159	0.00634	1.07	03/25/2019 17:16	WG1254917
1,2,3-Trichlorobenzene	U		0.000793	0.00317	1.07	03/25/2019 17:16	WG1254917
1,2,4-Trichlorobenzene	U		0.00612	0.0159	1.07	03/25/2019 17:16	WG1254917
1,1,1-Trichloroethane	U		0.000349	0.00317	1.07	03/25/2019 17:16	WG1254917
1,1,2-Trichloroethane	U		0.00112	0.00317	1.07	03/25/2019 17:16	WG1254917
Trichloroethene	U		0.000508	0.00127	1.07	03/25/2019 17:16	WG1254917
Trichlorofluoromethane	U		0.000634	0.00317	1.07	03/25/2019 17:16	WG1254917
1,2,3-Trichloropropane	U		0.00648	0.0159	1.07	03/25/2019 17:16	WG1254917
1,2,4-Trimethylbenzene	U		0.00147	0.00634	1.07	03/26/2019 18:29	WG1255751
1,2,3-Trimethylbenzene	U		0.00146	0.00634	1.07	03/26/2019 18:29	WG1255751
1,3,5-Trimethylbenzene	U		0.00138	0.00634	1.07	03/25/2019 17:16	WG1254917
Vinyl acetate	U		0.00447	0.0159	1.07	03/25/2019 17:16	WG1254917
Vinyl chloride	U		0.000867	0.00317	1.07	03/25/2019 17:16	WG1254917
Xylenes, Total	U		0.00606	0.00825	1.07	03/25/2019 17:16	WG1254917
(S) Toluene-d8	*106*			*75.0-131*		*03/25/2019 17:16*	WG1254917
(S) Toluene-d8	*93.9*			*75.0-131*		*03/26/2019 18:29*	WG1255751
(S) 4-Bromofluorobenzene	*94.4*			*67.0-138*		*03/25/2019 17:16*	WG1254917
(S) 4-Bromofluorobenzene	*79.8*			*67.0-138*		*03/26/2019 18:29*	WG1255751
(S) 1,2-Dichloroethane-d4	*94.0*			*70.0-130*		*03/25/2019 17:16*	WG1254917
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/26/2019 18:29*	WG1255751

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.9		1	03/25/2019 10:41	WG1254492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0167	0.0305	1	03/26/2019 18:48	WG1255751
Acrylonitrile	U		0.00232	0.0153	1	03/25/2019 17:54	WG1254917
Benzene	U		0.000488	0.00122	1	03/25/2019 17:54	WG1254917
Bromobenzene	U		0.00128	0.0153	1	03/25/2019 17:54	WG1254917
Bromodichloromethane	U		0.000962	0.00305	1	03/25/2019 17:54	WG1254917
Bromochloromethane	U	UJ J4	0.00138	0.00610	1	03/25/2019 17:54	WG1254917
Bromoform	U		0.00730	0.0305	1	03/25/2019 17:54	WG1254917
Bromomethane	U		0.00452	0.0153	1	03/25/2019 17:54	WG1254917
n-Butylbenzene	U		0.00469	0.0153	1	03/25/2019 17:54	WG1254917
sec-Butylbenzene	U		0.00309	0.0153	1	03/25/2019 17:54	WG1254917
tert-Butylbenzene	U		0.00189	0.00610	1	03/25/2019 17:54	WG1254917
Carbon disulfide	U		0.00496	0.0153	1	03/25/2019 17:54	WG1254917
Carbon tetrachloride	U		0.00132	0.00610	1	03/25/2019 17:54	WG1254917
Chlorobenzene	U		0.000699	0.00305	1	03/25/2019 17:54	WG1254917
Chlorodibromomethane	U		0.000549	0.00305	1	03/25/2019 17:54	WG1254917
Chloroethane	U		0.00132	0.00610	1	03/25/2019 17:54	WG1254917
Chloroform	U		0.000507	0.00305	1	03/25/2019 17:54	WG1254917
Chloromethane	U		0.00170	0.0153	1	03/25/2019 17:54	WG1254917
2-Chlorotoluene	U		0.00112	0.00305	1	03/25/2019 17:54	WG1254917
4-Chlorotoluene	U		0.00138	0.00610	1	03/25/2019 17:54	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00622	0.0305	1	03/25/2019 17:54	WG1254917
1,2-Dibromoethane	U		0.000641	0.00305	1	03/25/2019 17:54	WG1254917
Dibromomethane	U		0.00122	0.00610	1	03/25/2019 17:54	WG1254917
1,2-Dichlorobenzene	U		0.00177	0.00610	1	03/25/2019 17:54	WG1254917
1,3-Dichlorobenzene	U		0.00207	0.00610	1	03/25/2019 17:54	WG1254917
1,4-Dichlorobenzene	U		0.00240	0.00610	1	03/25/2019 17:54	WG1254917
Dichlorodifluoromethane	U		0.000998	0.00305	1	03/25/2019 17:54	WG1254917
1,1-Dichloroethane	U		0.000702	0.00305	1	03/25/2019 17:54	WG1254917
1,2-Dichloroethane	U		0.000580	0.00305	1	03/25/2019 17:54	WG1254917
1,1-Dichloroethene	U		0.000610	0.00305	1	03/25/2019 17:54	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000842	0.00305	1	03/25/2019 17:54	WG1254917
trans-1,2-Dichloroethene	U		0.00175	0.00610	1	03/25/2019 17:54	WG1254917
1,2-Dichloropropane	U		0.00155	0.00610	1	03/25/2019 17:54	WG1254917
1,1-Dichloropropene	U		0.000854	0.00305	1	03/25/2019 17:54	WG1254917
1,3-Dichloropropane	U		0.00214	0.00610	1	03/25/2019 17:54	WG1254917
cis-1,3-Dichloropropene	U		0.000828	0.00305	1	03/25/2019 17:54	WG1254917
trans-1,3-Dichloropropene	U		0.00187	0.00610	1	03/25/2019 17:54	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00171	0.00610	1	03/25/2019 17:54	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000968	0.00305	1	03/25/2019 17:54	WG1254917
Di-isopropyl ether	U		0.000427	0.00122	1	03/25/2019 17:54	WG1254917
Ethylbenzene	U		0.000647	0.00305	1	03/25/2019 17:54	WG1254917
Hexachloro-1,3-butadiene	U		0.0155	0.0305	1	03/25/2019 17:54	WG1254917
2-Hexanone	U		0.0122	0.0305	1	03/25/2019 17:54	WG1254917
n-Hexane	U		0.00129	0.00610	1	03/25/2019 17:54	WG1254917
Iodomethane	U		0.00738	0.0153	1	03/25/2019 17:54	WG1254917
Isopropylbenzene	0.00188	J J	0.00105	0.00305	1	03/25/2019 17:54	WG1254917
p-Isopropyltoluene	U		0.00284	0.00610	1	03/25/2019 17:54	WG1254917
2-Butanone (MEK)	U		0.0153	0.0305	1	03/25/2019 17:54	WG1254917
Methylene Chloride	U		0.00810	0.0305	1	03/25/2019 17:54	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0305	1	03/25/2019 17:54	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000360	0.00122	1	03/25/2019 17:54	WG1254917
Naphthalene	0.0177		0.00381	0.0153	1	03/25/2019 17:54	WG1254917
n-Propylbenzene	0.00769		0.00144	0.00610	1	03/25/2019 17:54	WG1254917
Styrene	U		0.00333	0.0153	1	03/25/2019 17:54	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000610	0.00305	1	03/25/2019 17:54	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000476	0.00305	1	03/25/2019 17:54	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000824	0.00305	1	03/25/2019 17:54	WG1254917
Tetrachloroethene	0.00179 J	J	0.000854	0.00305	1	03/25/2019 17:54	WG1254917
Toluene	0.00181 J	J	0.00153	0.00610	1	03/25/2019 17:54	WG1254917
1,2,3-Trichlorobenzene	U		0.000763	0.00305	1	03/25/2019 17:54	WG1254917
1,2,4-Trichlorobenzene	U		0.00588	0.0153	1	03/25/2019 17:54	WG1254917
1,1,1-Trichloroethane	U		0.000336	0.00305	1	03/25/2019 17:54	WG1254917
1,1,2-Trichloroethane	U		0.00108	0.00305	1	03/25/2019 17:54	WG1254917
Trichloroethene	U		0.000488	0.00122	1	03/25/2019 17:54	WG1254917
Trichlorofluoromethane	U		0.000610	0.00305	1	03/25/2019 17:54	WG1254917
1,2,3-Trichloropropane	U		0.00622	0.0153	1	03/25/2019 17:54	WG1254917
1,2,4-Trimethylbenzene	0.00197 J	J	0.00142	0.00610	1	03/25/2019 17:54	WG1254917
1,2,3-Trimethylbenzene	U		0.00140	0.00610	1	03/25/2019 17:54	WG1254917
1,3,5-Trimethylbenzene	U		0.00132	0.00610	1	03/25/2019 17:54	WG1254917
Vinyl acetate	U		0.00430	0.0153	1	03/25/2019 17:54	WG1254917
Vinyl chloride	U		0.000834	0.00305	1	03/25/2019 17:54	WG1254917
Xylenes, Total	U		0.00583	0.00793	1	03/25/2019 17:54	WG1254917
(S) Toluene-d8	*107*			*75.0-131*		*03/25/2019 17:54*	WG1254917
(S) Toluene-d8	*94.2*			*75.0-131*		*03/26/2019 18:48*	WG1255751
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*03/25/2019 17:54*	WG1254917
(S) 4-Bromofluorobenzene	*78.4*			*67.0-138*		*03/26/2019 18:48*	WG1255751
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/25/2019 17:54*	WG1254917
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/26/2019 18:48*	WG1255751

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.0		1	03/25/2019 10:41	WG1254492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0162	0.0297	1.01	03/26/2019 19:08	WG1255751
Acrylonitrile	U		0.00226	0.0149	1.01	03/25/2019 18:14	WG1254917
Benzene	U		0.000475	0.00119	1.01	03/25/2019 18:14	WG1254917
Bromobenzene	U		0.00125	0.0149	1.01	03/25/2019 18:14	WG1254917
Bromodichloromethane	U		0.000937	0.00297	1.01	03/25/2019 18:14	WG1254917
Bromochloromethane	U UJ	J4	0.00134	0.00594	1.01	03/25/2019 18:14	WG1254917
Bromoform	U		0.00711	0.0297	1.01	03/25/2019 18:14	WG1254917
Bromomethane	U		0.00440	0.0149	1.01	03/25/2019 18:14	WG1254917
n-Butylbenzene	U		0.00457	0.0149	1.01	03/25/2019 18:14	WG1254917
sec-Butylbenzene	U		0.00301	0.0149	1.01	03/25/2019 18:14	WG1254917
tert-Butylbenzene	U		0.00184	0.00594	1.01	03/25/2019 18:14	WG1254917
Carbon disulfide	U		0.00482	0.0149	1.01	03/25/2019 18:14	WG1254917
Carbon tetrachloride	U		0.00128	0.00594	1.01	03/25/2019 18:14	WG1254917
Chlorobenzene	U		0.000681	0.00297	1.01	03/25/2019 18:14	WG1254917
Chlorodibromomethane	U		0.000534	0.00297	1.01	03/25/2019 18:14	WG1254917
Chloroethane	U		0.00128	0.00594	1.01	03/25/2019 18:14	WG1254917
Chloroform	U		0.000493	0.00297	1.01	03/25/2019 18:14	WG1254917
Chloromethane	U		0.00165	0.0149	1.01	03/25/2019 18:14	WG1254917
2-Chlorotoluene	U		0.00109	0.00297	1.01	03/25/2019 18:14	WG1254917
4-Chlorotoluene	U		0.00134	0.00594	1.01	03/25/2019 18:14	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00606	0.0297	1.01	03/25/2019 18:14	WG1254917
1,2-Dibromoethane	U		0.000624	0.00297	1.01	03/25/2019 18:14	WG1254917
Dibromomethane	U		0.00119	0.00594	1.01	03/25/2019 18:14	WG1254917
1,2-Dichlorobenzene	U		0.00172	0.00594	1.01	03/25/2019 18:14	WG1254917
1,3-Dichlorobenzene	U		0.00202	0.00594	1.01	03/25/2019 18:14	WG1254917
1,4-Dichlorobenzene	U		0.00234	0.00594	1.01	03/25/2019 18:14	WG1254917
Dichlorodifluoromethane	U		0.000972	0.00297	1.01	03/25/2019 18:14	WG1254917
1,1-Dichloroethane	U		0.000684	0.00297	1.01	03/25/2019 18:14	WG1254917
1,2-Dichloroethane	U		0.000565	0.00297	1.01	03/25/2019 18:14	WG1254917
1,1-Dichloroethene	U		0.000594	0.00297	1.01	03/25/2019 18:14	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000820	0.00297	1.01	03/25/2019 18:14	WG1254917
trans-1,2-Dichloroethene	U		0.00169	0.00594	1.01	03/25/2019 18:14	WG1254917
1,2-Dichloropropane	U		0.00151	0.00594	1.01	03/25/2019 18:14	WG1254917
1,1-Dichloropropene	U		0.000832	0.00297	1.01	03/25/2019 18:14	WG1254917
1,3-Dichloropropane	U		0.00208	0.00594	1.01	03/25/2019 18:14	WG1254917
cis-1,3-Dichloropropene	U		0.000806	0.00297	1.01	03/25/2019 18:14	WG1254917
trans-1,3-Dichloropropene	U		0.00181	0.00594	1.01	03/25/2019 18:14	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00166	0.00594	1.01	03/25/2019 18:14	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000943	0.00297	1.01	03/25/2019 18:14	WG1254917
Di-isopropyl ether	U		0.000417	0.00119	1.01	03/25/2019 18:14	WG1254917
Ethylbenzene	U		0.000630	0.00297	1.01	03/25/2019 18:14	WG1254917
Hexachloro-1,3-butadiene	U		0.0151	0.0297	1.01	03/25/2019 18:14	WG1254917
2-Hexanone	U		0.0119	0.0297	1.01	03/25/2019 18:14	WG1254917
n-Hexane	U		0.00126	0.00594	1.01	03/25/2019 18:14	WG1254917
Iodomethane	U		0.00719	0.0149	1.01	03/25/2019 18:14	WG1254917
Isopropylbenzene	U		0.00103	0.00297	1.01	03/25/2019 18:14	WG1254917
p-Isopropyltoluene	U		0.00277	0.00594	1.01	03/25/2019 18:14	WG1254917
2-Butanone (MEK)	U		0.0148	0.0297	1.01	03/25/2019 18:14	WG1254917
Methylene Chloride	U		0.00790	0.0297	1.01	03/25/2019 18:14	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0297	1.01	03/25/2019 18:14	WG1254917

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000351	0.00119	1.01	03/25/2019 18:14	WG1254917
Naphthalene	0.00535	J J	0.00371	0.0149	1.01	03/25/2019 18:14	WG1254917
n-Propylbenzene	0.00256	J J	0.00140	0.00594	1.01	03/25/2019 18:14	WG1254917
Styrene	U		0.00325	0.0149	1.01	03/25/2019 18:14	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000594	0.00297	1.01	03/25/2019 18:14	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000464	0.00297	1.01	03/25/2019 18:14	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000803	0.00297	1.01	03/25/2019 18:14	WG1254917
Tetrachloroethene	U		0.000832	0.00297	1.01	03/25/2019 18:14	WG1254917
Toluene	U		0.00148	0.00594	1.01	03/25/2019 18:14	WG1254917
1,2,3-Trichlorobenzene	U		0.000743	0.00297	1.01	03/25/2019 18:14	WG1254917
1,2,4-Trichlorobenzene	U		0.00573	0.0149	1.01	03/25/2019 18:14	WG1254917
1,1,1-Trichloroethane	U		0.000327	0.00297	1.01	03/25/2019 18:14	WG1254917
1,1,2-Trichloroethane	U		0.00105	0.00297	1.01	03/25/2019 18:14	WG1254917
Trichloroethene	U		0.000475	0.00119	1.01	03/25/2019 18:14	WG1254917
Trichlorofluoromethane	U		0.000594	0.00297	1.01	03/25/2019 18:14	WG1254917
1,2,3-Trichloropropane	U		0.00606	0.0149	1.01	03/25/2019 18:14	WG1254917
1,2,4-Trimethylbenzene	U		0.00138	0.00594	1.01	03/25/2019 18:14	WG1254917
1,2,3-Trimethylbenzene	U		0.00136	0.00594	1.01	03/25/2019 18:14	WG1254917
1,3,5-Trimethylbenzene	U		0.00128	0.00594	1.01	03/25/2019 18:14	WG1254917
Vinyl acetate	U		0.00419	0.0149	1.01	03/25/2019 18:14	WG1254917
Vinyl chloride	U		0.000812	0.00297	1.01	03/25/2019 18:14	WG1254917
Xylenes, Total	U		0.00568	0.00773	1.01	03/25/2019 18:14	WG1254917
(S) Toluene-d8	*107*			*75.0-131*		*03/25/2019 18:14*	WG1254917
(S) Toluene-d8	*94.5*			*75.0-131*		*03/26/2019 19:08*	WG1255751
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*		*03/25/2019 18:14*	WG1254917
(S) 4-Bromofluorobenzene	*79.6*			*67.0-138*		*03/26/2019 19:08*	WG1255751
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*03/25/2019 18:14*	WG1254917
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/26/2019 19:08*	WG1255751

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.3		1	03/25/2019 10:41	WG1254492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0155	0.0283	1	03/26/2019 19:28	WG1255751
Acrylonitrile	U		0.00215	0.0142	1	03/25/2019 18:32	WG1254917
Benzene	U		0.000453	0.00113	1	03/25/2019 18:32	WG1254917
Bromobenzene	U		0.00119	0.0142	1	03/25/2019 18:32	WG1254917
Bromodichloromethane	U		0.000893	0.00283	1	03/25/2019 18:32	WG1254917
Bromochloromethane	U UJ	J4	0.00128	0.00566	1	03/25/2019 18:32	WG1254917
Bromoform	U		0.00677	0.0283	1	03/25/2019 18:32	WG1254917
Bromomethane	U		0.00419	0.0142	1	03/25/2019 18:32	WG1254917
n-Butylbenzene	U		0.00435	0.0142	1	03/25/2019 18:32	WG1254917
sec-Butylbenzene	U		0.00287	0.0142	1	03/25/2019 18:32	WG1254917
tert-Butylbenzene	U		0.00176	0.00566	1	03/25/2019 18:32	WG1254917
Carbon disulfide	U		0.00460	0.0142	1	03/25/2019 18:32	WG1254917
Carbon tetrachloride	U		0.00122	0.00566	1	03/25/2019 18:32	WG1254917
Chlorobenzene	U		0.000649	0.00283	1	03/25/2019 18:32	WG1254917
Chlorodibromomethane	U		0.000510	0.00283	1	03/25/2019 18:32	WG1254917
Chloroethane	U		0.00122	0.00566	1	03/25/2019 18:32	WG1254917
Chloroform	U		0.000470	0.00283	1	03/25/2019 18:32	WG1254917
Chloromethane	U		0.00157	0.0142	1	03/25/2019 18:32	WG1254917
2-Chlorotoluene	U		0.00104	0.00283	1	03/25/2019 18:32	WG1254917
4-Chlorotoluene	U		0.00128	0.00566	1	03/25/2019 18:32	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00578	0.0283	1	03/25/2019 18:32	WG1254917
1,2-Dibromoethane	U		0.000595	0.00283	1	03/25/2019 18:32	WG1254917
Dibromomethane	U		0.00113	0.00566	1	03/25/2019 18:32	WG1254917
1,2-Dichlorobenzene	U		0.00164	0.00566	1	03/25/2019 18:32	WG1254917
1,3-Dichlorobenzene	U		0.00193	0.00566	1	03/25/2019 18:32	WG1254917
1,4-Dichlorobenzene	U		0.00223	0.00566	1	03/25/2019 18:32	WG1254917
Dichlorodifluoromethane	U		0.000926	0.00283	1	03/25/2019 18:32	WG1254917
1,1-Dichloroethane	U		0.000651	0.00283	1	03/25/2019 18:32	WG1254917
1,2-Dichloroethane	U		0.000538	0.00283	1	03/25/2019 18:32	WG1254917
1,1-Dichloroethene	U		0.000566	0.00283	1	03/25/2019 18:32	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000782	0.00283	1	03/25/2019 18:32	WG1254917
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	03/25/2019 18:32	WG1254917
1,2-Dichloropropane	U		0.00144	0.00566	1	03/25/2019 18:32	WG1254917
1,1-Dichloropropene	U		0.000793	0.00283	1	03/25/2019 18:32	WG1254917
1,3-Dichloropropane	U		0.00198	0.00566	1	03/25/2019 18:32	WG1254917
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	03/25/2019 18:32	WG1254917
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	03/25/2019 18:32	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00159	0.00566	1	03/25/2019 18:32	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000898	0.00283	1	03/25/2019 18:32	WG1254917
Di-isopropyl ether	U		0.000396	0.00113	1	03/25/2019 18:32	WG1254917
Ethylbenzene	U		0.000600	0.00283	1	03/25/2019 18:32	WG1254917
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	03/25/2019 18:32	WG1254917
2-Hexanone	U		0.0113	0.0283	1	03/25/2019 18:32	WG1254917
n-Hexane	U		0.00120	0.00566	1	03/25/2019 18:32	WG1254917
Iodomethane	U		0.00685	0.0142	1	03/25/2019 18:32	WG1254917
Isopropylbenzene	U		0.000977	0.00283	1	03/25/2019 18:32	WG1254917
p-Isopropyltoluene	U		0.00264	0.00566	1	03/25/2019 18:32	WG1254917
2-Butanone (MEK)	U		0.0142	0.0283	1	03/25/2019 18:32	WG1254917
Methylene Chloride	U		0.00752	0.0283	1	03/25/2019 18:32	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	03/25/2019 18:32	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	03/25/2019 18:32	WG1254917
Naphthalene	U		0.00353	0.0142	1	03/25/2019 18:32	WG1254917
n-Propylbenzene	U		0.00134	0.00566	1	03/25/2019 18:32	WG1254917
Styrene	U		0.00309	0.0142	1	03/25/2019 18:32	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	03/25/2019 18:32	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	03/25/2019 18:32	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000765	0.00283	1	03/25/2019 18:32	WG1254917
Tetrachloroethene	U		0.000793	0.00283	1	03/25/2019 18:32	WG1254917
Toluene	U		0.00142	0.00566	1	03/25/2019 18:32	WG1254917
1,2,3-Trichlorobenzene	U		0.000708	0.00283	1	03/25/2019 18:32	WG1254917
1,2,4-Trichlorobenzene	U		0.00546	0.0142	1	03/25/2019 18:32	WG1254917
1,1,1-Trichloroethane	U		0.000311	0.00283	1	03/25/2019 18:32	WG1254917
1,1,2-Trichloroethane	U		0.00100	0.00283	1	03/25/2019 18:32	WG1254917
Trichloroethene	U		0.000453	0.00113	1	03/25/2019 18:32	WG1254917
Trichlorofluoromethane	U		0.000566	0.00283	1	03/25/2019 18:32	WG1254917
1,2,3-Trichloropropane	U		0.00578	0.0142	1	03/25/2019 18:32	WG1254917
1,2,4-Trimethylbenzene	0.00140 J	J	0.00131	0.00566	1	03/25/2019 18:32	WG1254917
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	03/25/2019 18:32	WG1254917
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	03/25/2019 18:32	WG1254917
Vinyl acetate	U		0.00399	0.0142	1	03/25/2019 18:32	WG1254917
Vinyl chloride	U		0.000774	0.00283	1	03/25/2019 18:32	WG1254917
Xylenes, Total	U		0.00541	0.00736	1	03/25/2019 18:32	WG1254917
(S) Toluene-d8	*109*			*75.0-131*		*03/25/2019 18:32*	WG1254917
(S) Toluene-d8	*95.5*			*75.0-131*		*03/26/2019 19:28*	WG1255751
(S) 4-Bromofluorobenzene	*96.0*			*67.0-138*		*03/25/2019 18:32*	WG1254917
(S) 4-Bromofluorobenzene	*76.3*			*67.0-138*		*03/26/2019 19:28*	WG1255751
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/25/2019 18:32*	WG1254917
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/26/2019 19:28*	WG1255751

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SAMPLE RESULTS - 16

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.3		1	03/25/2019 10:41	WG1254492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0167 J	J	0.0166	0.0304	1	03/26/2019 19:48	WG1255751
Acrylonitrile	U		0.00231	0.0152	1	03/25/2019 18:51	WG1254917
Benzene	U		0.000486	0.00121	1	03/25/2019 18:51	WG1254917
Bromobenzene	U		0.00128	0.0152	1	03/25/2019 18:51	WG1254917
Bromodichloromethane	U		0.000957	0.00304	1	03/25/2019 18:51	WG1254917
Bromochloromethane	U UJ	J4	0.00137	0.00607	1	03/25/2019 18:51	WG1254917
Bromoform	U		0.00726	0.0304	1	03/25/2019 18:51	WG1254917
Bromomethane	U		0.00449	0.0152	1	03/25/2019 18:51	WG1254917
n-Butylbenzene	U		0.00466	0.0152	1	03/25/2019 18:51	WG1254917
sec-Butylbenzene	U		0.00307	0.0152	1	03/25/2019 18:51	WG1254917
tert-Butylbenzene	U		0.00188	0.00607	1	03/25/2019 18:51	WG1254917
Carbon disulfide	U		0.00493	0.0152	1	03/25/2019 18:51	WG1254917
Carbon tetrachloride	U		0.00131	0.00607	1	03/25/2019 18:51	WG1254917
Chlorobenzene	U		0.000696	0.00304	1	03/25/2019 18:51	WG1254917
Chlorodibromomethane	U		0.000546	0.00304	1	03/25/2019 18:51	WG1254917
Chloroethane	U		0.00131	0.00607	1	03/25/2019 18:51	WG1254917
Chloroform	U		0.000504	0.00304	1	03/25/2019 18:51	WG1254917
Chloromethane	U		0.00169	0.0152	1	03/25/2019 18:51	WG1254917
2-Chlorotoluene	U		0.00112	0.00304	1	03/25/2019 18:51	WG1254917
4-Chlorotoluene	U		0.00137	0.00607	1	03/25/2019 18:51	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00619	0.0304	1	03/25/2019 18:51	WG1254917
1,2-Dibromoethane	U		0.000638	0.00304	1	03/25/2019 18:51	WG1254917
Dibromomethane	U		0.00121	0.00607	1	03/25/2019 18:51	WG1254917
1,2-Dichlorobenzene	U		0.00176	0.00607	1	03/25/2019 18:51	WG1254917
1,3-Dichlorobenzene	U		0.00206	0.00607	1	03/25/2019 18:51	WG1254917
1,4-Dichlorobenzene	U		0.00239	0.00607	1	03/25/2019 18:51	WG1254917
Dichlorodifluoromethane	U		0.000993	0.00304	1	03/25/2019 18:51	WG1254917
1,1-Dichloroethane	U		0.000698	0.00304	1	03/25/2019 18:51	WG1254917
1,2-Dichloroethane	U		0.000577	0.00304	1	03/25/2019 18:51	WG1254917
1,1-Dichloroethene	U		0.000607	0.00304	1	03/25/2019 18:51	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000838	0.00304	1	03/25/2019 18:51	WG1254917
trans-1,2-Dichloroethene	U		0.00174	0.00607	1	03/25/2019 18:51	WG1254917
1,2-Dichloropropane	U		0.00154	0.00607	1	03/25/2019 18:51	WG1254917
1,1-Dichloropropene	U		0.000850	0.00304	1	03/25/2019 18:51	WG1254917
1,3-Dichloropropane	U		0.00213	0.00607	1	03/25/2019 18:51	WG1254917
cis-1,3-Dichloropropene	U		0.000823	0.00304	1	03/25/2019 18:51	WG1254917
trans-1,3-Dichloropropene	U		0.00186	0.00607	1	03/25/2019 18:51	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00170	0.00607	1	03/25/2019 18:51	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000963	0.00304	1	03/25/2019 18:51	WG1254917
Di-isopropyl ether	U		0.000425	0.00121	1	03/25/2019 18:51	WG1254917
Ethylbenzene	U		0.000644	0.00304	1	03/25/2019 18:51	WG1254917
Hexachloro-1,3-butadiene	U		0.0154	0.0304	1	03/25/2019 18:51	WG1254917
2-Hexanone	U		0.0121	0.0304	1	03/25/2019 18:51	WG1254917
n-Hexane	U		0.00129	0.00607	1	03/25/2019 18:51	WG1254917
Iodomethane	U		0.00735	0.0152	1	03/25/2019 18:51	WG1254917
Isopropylbenzene	U		0.00105	0.00304	1	03/25/2019 18:51	WG1254917
p-Isopropyltoluene	U		0.00283	0.00607	1	03/25/2019 18:51	WG1254917
2-Butanone (MEK)	U		0.0152	0.0304	1	03/25/2019 18:51	WG1254917
Methylene Chloride	U		0.00806	0.0304	1	03/25/2019 18:51	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0304	1	03/25/2019 18:51	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000358	0.00121	1	03/25/2019 18:51	WG1254917
Naphthalene	U		0.00379	0.0152	1	03/25/2019 18:51	WG1254917
n-Propylbenzene	U		0.00143	0.00607	1	03/25/2019 18:51	WG1254917
Styrene	U		0.00332	0.0152	1	03/25/2019 18:51	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000607	0.00304	1	03/25/2019 18:51	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000474	0.00304	1	03/25/2019 18:51	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000820	0.00304	1	03/25/2019 18:51	WG1254917
Tetrachloroethene	U		0.000850	0.00304	1	03/25/2019 18:51	WG1254917
Toluene	U		0.00152	0.00607	1	03/25/2019 18:51	WG1254917
1,2,3-Trichlorobenzene	U		0.000759	0.00304	1	03/25/2019 18:51	WG1254917
1,2,4-Trichlorobenzene	U		0.00585	0.0152	1	03/25/2019 18:51	WG1254917
1,1,1-Trichloroethane	U		0.000334	0.00304	1	03/25/2019 18:51	WG1254917
1,1,2-Trichloroethane	U		0.00107	0.00304	1	03/25/2019 18:51	WG1254917
Trichloroethene	U		0.000486	0.00121	1	03/25/2019 18:51	WG1254917
Trichlorofluoromethane	U		0.000607	0.00304	1	03/25/2019 18:51	WG1254917
1,2,3-Trichloropropane	U		0.00619	0.0152	1	03/25/2019 18:51	WG1254917
1,2,4-Trimethylbenzene	U		0.00141	0.00607	1	03/25/2019 18:51	WG1254917
1,2,3-Trimethylbenzene	U		0.00140	0.00607	1	03/25/2019 18:51	WG1254917
1,3,5-Trimethylbenzene	U		0.00131	0.00607	1	03/25/2019 18:51	WG1254917
Vinyl acetate	U		0.00427	0.0152	1	03/25/2019 18:51	WG1254917
Vinyl chloride	U		0.000829	0.00304	1	03/25/2019 18:51	WG1254917
Xylenes, Total	U		0.00580	0.00789	1	03/25/2019 18:51	WG1254917
(S) Toluene-d8	*109*			*75.0-131*		*03/25/2019 18:51*	WG1254917
(S) Toluene-d8	*93.5*			*75.0-131*		*03/26/2019 19:48*	WG1255751
(S) 4-Bromofluorobenzene	*92.7*			*67.0-138*		*03/25/2019 18:51*	WG1254917
(S) 4-Bromofluorobenzene	*78.6*			*67.0-138*		*03/26/2019 19:48*	WG1255751
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/25/2019 18:51*	WG1254917
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/26/2019 19:48*	WG1255751

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 4/22/19

B19D19-90
Collected date/time: 03/18/19 14:06

SAMPLE RESULTS - 17

L1081046

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.0		1	03/25/2019 11:12	WG1254494

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0242 J	J	0.0171	0.0312	1.06	03/26/2019 20:08	WG1255751
Acrylonitrile	U		0.00239	0.0157	1.07	03/25/2019 19:10	WG1254917
Benzene	U		0.000504	0.00126	1.07	03/25/2019 19:10	WG1254917
Bromobenzene	U		0.00132	0.0157	1.07	03/25/2019 19:10	WG1254917
Bromodichloromethane	U		0.000992	0.00315	1.07	03/25/2019 19:10	WG1254917
Bromochloromethane	U UJ	J4	0.00142	0.00630	1.07	03/25/2019 19:10	WG1254917
Bromoform	U		0.00753	0.0315	1.07	03/25/2019 19:10	WG1254917
Bromomethane	U		0.00466	0.0157	1.07	03/25/2019 19:10	WG1254917
n-Butylbenzene	U		0.00484	0.0157	1.07	03/25/2019 19:10	WG1254917
sec-Butylbenzene	U		0.00319	0.0157	1.07	03/25/2019 19:10	WG1254917
tert-Butylbenzene	U		0.00195	0.00630	1.07	03/25/2019 19:10	WG1254917
Carbon disulfide	U		0.00511	0.0157	1.07	03/25/2019 19:10	WG1254917
Carbon tetrachloride	U		0.00136	0.00630	1.07	03/25/2019 19:10	WG1254917
Chlorobenzene	U		0.000721	0.00315	1.07	03/25/2019 19:10	WG1254917
Chlorodibromomethane	U		0.000567	0.00315	1.07	03/25/2019 19:10	WG1254917
Chloroethane	U		0.00136	0.00630	1.07	03/25/2019 19:10	WG1254917
Chloroform	U		0.000522	0.00315	1.07	03/25/2019 19:10	WG1254917
Chloromethane	U		0.00175	0.0157	1.07	03/25/2019 19:10	WG1254917
2-Chlorotoluene	U		0.00116	0.00315	1.07	03/25/2019 19:10	WG1254917
4-Chlorotoluene	U		0.00142	0.00630	1.07	03/25/2019 19:10	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00642	0.0315	1.07	03/25/2019 19:10	WG1254917
1,2-Dibromoethane	U		0.000661	0.00315	1.07	03/25/2019 19:10	WG1254917
Dibromomethane	U		0.00126	0.00630	1.07	03/25/2019 19:10	WG1254917
1,2-Dichlorobenzene	U		0.00182	0.00630	1.07	03/25/2019 19:10	WG1254917
1,3-Dichlorobenzene	U		0.00214	0.00630	1.07	03/25/2019 19:10	WG1254917
1,4-Dichlorobenzene	U		0.00248	0.00630	1.07	03/25/2019 19:10	WG1254917
Dichlorodifluoromethane	U		0.00103	0.00315	1.07	03/25/2019 19:10	WG1254917
1,1-Dichloroethane	U		0.000724	0.00315	1.07	03/25/2019 19:10	WG1254917
1,2-Dichloroethane	U		0.000598	0.00315	1.07	03/25/2019 19:10	WG1254917
1,1-Dichloroethene	U		0.000630	0.00315	1.07	03/25/2019 19:10	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000868	0.00315	1.07	03/25/2019 19:10	WG1254917
trans-1,2-Dichloroethene	U		0.00180	0.00630	1.07	03/25/2019 19:10	WG1254917
1,2-Dichloropropane	U		0.00160	0.00630	1.07	03/25/2019 19:10	WG1254917
1,1-Dichloropropene	U		0.000881	0.00315	1.07	03/25/2019 19:10	WG1254917
1,3-Dichloropropane	U		0.00220	0.00630	1.07	03/25/2019 19:10	WG1254917
cis-1,3-Dichloropropene	U		0.000853	0.00315	1.07	03/25/2019 19:10	WG1254917
trans-1,3-Dichloropropene	U		0.00193	0.00630	1.07	03/25/2019 19:10	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00177	0.00630	1.07	03/25/2019 19:10	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000998	0.00315	1.07	03/25/2019 19:10	WG1254917
Di-isopropyl ether	U		0.000440	0.00126	1.07	03/25/2019 19:10	WG1254917
Ethylbenzene	U		0.000667	0.00315	1.07	03/25/2019 19:10	WG1254917
Hexachloro-1,3-butadiene	U		0.0160	0.0315	1.07	03/25/2019 19:10	WG1254917
2-Hexanone	U		0.0126	0.0315	1.07	03/25/2019 19:10	WG1254917
n-Hexane	0.0160		0.00133	0.00630	1.07	03/25/2019 19:10	WG1254917
Iodomethane	U		0.00761	0.0157	1.07	03/25/2019 19:10	WG1254917
Isopropylbenzene	U		0.00109	0.00315	1.07	03/25/2019 19:10	WG1254917
p-Isopropyltoluene	U		0.00293	0.00630	1.07	03/25/2019 19:10	WG1254917
2-Butanone (MEK)	U		0.0158	0.0315	1.07	03/25/2019 19:10	WG1254917
Methylene Chloride	U		0.00835	0.0315	1.07	03/25/2019 19:10	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0126	0.0315	1.07	03/25/2019 19:10	WG1254917

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000372	0.00126	1.07	03/25/2019 19:10	WG1254917
Naphthalene	U		0.00393	0.0157	1.07	03/25/2019 19:10	WG1254917
n-Propylbenzene	U		0.00148	0.00630	1.07	03/25/2019 19:10	WG1254917
Styrene	U		0.00344	0.0157	1.07	03/25/2019 19:10	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000630	0.00315	1.07	03/25/2019 19:10	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000491	0.00315	1.07	03/25/2019 19:10	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000850	0.00315	1.07	03/25/2019 19:10	WG1254917
Tetrachloroethene	U		0.000881	0.00315	1.07	03/25/2019 19:10	WG1254917
Toluene	0.00213 J	J	0.00158	0.00630	1.07	03/25/2019 19:10	WG1254917
1,2,3-Trichlorobenzene	U		0.000787	0.00315	1.07	03/25/2019 19:10	WG1254917
1,2,4-Trichlorobenzene	U		0.00607	0.0157	1.07	03/25/2019 19:10	WG1254917
1,1,1-Trichloroethane	U		0.000346	0.00315	1.07	03/25/2019 19:10	WG1254917
1,1,2-Trichloroethane	U		0.00111	0.00315	1.07	03/25/2019 19:10	WG1254917
Trichloroethene	U		0.000504	0.00126	1.07	03/25/2019 19:10	WG1254917
Trichlorofluoromethane	U		0.000630	0.00315	1.07	03/25/2019 19:10	WG1254917
1,2,3-Trichloropropane	U		0.00642	0.0157	1.07	03/25/2019 19:10	WG1254917
1,2,4-Trimethylbenzene	U		0.00146	0.00630	1.07	03/25/2019 19:10	WG1254917
1,2,3-Trimethylbenzene	U		0.00145	0.00630	1.07	03/25/2019 19:10	WG1254917
1,3,5-Trimethylbenzene	U		0.00136	0.00630	1.07	03/25/2019 19:10	WG1254917
Vinyl acetate	U		0.00444	0.0157	1.07	03/25/2019 19:10	WG1254917
Vinyl chloride	U		0.000860	0.00315	1.07	03/25/2019 19:10	WG1254917
Xylenes, Total	U		0.00601	0.00818	1.07	03/25/2019 19:10	WG1254917
(S) Toluene-d8	*108*			*75.0-131*		*03/25/2019 19:10*	WG1254917
(S) Toluene-d8	*92.8*			*75.0-131*		*03/26/2019 20:08*	WG1255751
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*03/25/2019 19:10*	WG1254917
(S) 4-Bromofluorobenzene	*79.7*			*67.0-138*		*03/26/2019 20:08*	WG1255751
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/25/2019 19:10*	WG1254917
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/26/2019 20:08*	WG1255751

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.4		1	03/25/2019 11:12	WG1254494

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0164	0.0300	1	03/26/2019 20:27	WG1255751
Acrylonitrile	U		0.00228	0.0150	1	03/25/2019 19:29	WG1254917
Benzene	U		0.000479	0.00120	1	03/25/2019 19:29	WG1254917
Bromobenzene	U		0.00126	0.0150	1	03/25/2019 19:29	WG1254917
Bromodichloromethane	U		0.000945	0.00300	1	03/25/2019 19:29	WG1254917
Bromochloromethane	U	UJ J4	0.00135	0.00599	1	03/25/2019 19:29	WG1254917
Bromoform	U		0.00717	0.0300	1	03/25/2019 19:29	WG1254917
Bromomethane	U		0.00444	0.0150	1	03/25/2019 19:29	WG1254917
n-Butylbenzene	U		0.00460	0.0150	1	03/25/2019 19:29	WG1254917
sec-Butylbenzene	U		0.00303	0.0150	1	03/25/2019 19:29	WG1254917
tert-Butylbenzene	U		0.00186	0.00599	1	03/25/2019 19:29	WG1254917
Carbon disulfide	U		0.00487	0.0150	1	03/25/2019 19:29	WG1254917
Carbon tetrachloride	U		0.00129	0.00599	1	03/25/2019 19:29	WG1254917
Chlorobenzene	U		0.000687	0.00300	1	03/25/2019 19:29	WG1254917
Chlorodibromomethane	U		0.000539	0.00300	1	03/25/2019 19:29	WG1254917
Chloroethane	U		0.00129	0.00599	1	03/25/2019 19:29	WG1254917
Chloroform	U		0.000497	0.00300	1	03/25/2019 19:29	WG1254917
Chloromethane	U		0.00167	0.0150	1	03/25/2019 19:29	WG1254917
2-Chlorotoluene	U		0.00110	0.00300	1	03/25/2019 19:29	WG1254917
4-Chlorotoluene	U		0.00135	0.00599	1	03/25/2019 19:29	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00611	0.0300	1	03/25/2019 19:29	WG1254917
1,2-Dibromoethane	U		0.000629	0.00300	1	03/25/2019 19:29	WG1254917
Dibromomethane	U		0.00120	0.00599	1	03/25/2019 19:29	WG1254917
1,2-Dichlorobenzene	U		0.00174	0.00599	1	03/25/2019 19:29	WG1254917
1,3-Dichlorobenzene	U		0.00204	0.00599	1	03/25/2019 19:29	WG1254917
1,4-Dichlorobenzene	U		0.00236	0.00599	1	03/25/2019 19:29	WG1254917
Dichlorodifluoromethane	U		0.000981	0.00300	1	03/25/2019 19:29	WG1254917
1,1-Dichloroethane	U		0.000689	0.00300	1	03/25/2019 19:29	WG1254917
1,2-Dichloroethane	U		0.000569	0.00300	1	03/25/2019 19:29	WG1254917
1,1-Dichloroethene	U		0.000599	0.00300	1	03/25/2019 19:29	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000827	0.00300	1	03/25/2019 19:29	WG1254917
trans-1,2-Dichloroethene	U		0.00171	0.00599	1	03/25/2019 19:29	WG1254917
1,2-Dichloropropane	U		0.00152	0.00599	1	03/25/2019 19:29	WG1254917
1,1-Dichloropropene	U		0.000839	0.00300	1	03/25/2019 19:29	WG1254917
1,3-Dichloropropane	U		0.00210	0.00599	1	03/25/2019 19:29	WG1254917
cis-1,3-Dichloropropene	U		0.000813	0.00300	1	03/25/2019 19:29	WG1254917
trans-1,3-Dichloropropene	U		0.00183	0.00599	1	03/25/2019 19:29	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00168	0.00599	1	03/25/2019 19:29	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000951	0.00300	1	03/25/2019 19:29	WG1254917
Di-isopropyl ether	U		0.000420	0.00120	1	03/25/2019 19:29	WG1254917
Ethylbenzene	U		0.000635	0.00300	1	03/25/2019 19:29	WG1254917
Hexachloro-1,3-butadiene	U		0.0152	0.0300	1	03/25/2019 19:29	WG1254917
2-Hexanone	U		0.0120	0.0300	1	03/25/2019 19:29	WG1254917
n-Hexane	U		0.00127	0.00599	1	03/25/2019 19:29	WG1254917
Iodomethane	U		0.00725	0.0150	1	03/25/2019 19:29	WG1254917
Isopropylbenzene	U		0.00103	0.00300	1	03/25/2019 19:29	WG1254917
p-Isopropyltoluene	U		0.00279	0.00599	1	03/25/2019 19:29	WG1254917
2-Butanone (MEK)	U		0.0150	0.0300	1	03/25/2019 19:29	WG1254917
Methylene Chloride	U		0.00796	0.0300	1	03/25/2019 19:29	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0300	1	03/25/2019 19:29	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000354	0.00120	1	03/25/2019 19:29	WG1254917
Naphthalene	U		0.00374	0.0150	1	03/25/2019 19:29	WG1254917
n-Propylbenzene	U		0.00141	0.00599	1	03/25/2019 19:29	WG1254917
Styrene	U		0.00327	0.0150	1	03/25/2019 19:29	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000599	0.00300	1	03/25/2019 19:29	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000468	0.00300	1	03/25/2019 19:29	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000809	0.00300	1	03/25/2019 19:29	WG1254917
Tetrachloroethene	U		0.000839	0.00300	1	03/25/2019 19:29	WG1254917
Toluene	U		0.00150	0.00599	1	03/25/2019 19:29	WG1254917
1,2,3-Trichlorobenzene	U		0.000749	0.00300	1	03/25/2019 19:29	WG1254917
1,2,4-Trichlorobenzene	U		0.00578	0.0150	1	03/25/2019 19:29	WG1254917
1,1,1-Trichloroethane	U		0.000330	0.00300	1	03/25/2019 19:29	WG1254917
1,1,2-Trichloroethane	U		0.00106	0.00300	1	03/25/2019 19:29	WG1254917
Trichloroethene	U		0.000479	0.00120	1	03/25/2019 19:29	WG1254917
Trichlorofluoromethane	U		0.000599	0.00300	1	03/25/2019 19:29	WG1254917
1,2,3-Trichloropropane	U		0.00611	0.0150	1	03/25/2019 19:29	WG1254917
1,2,4-Trimethylbenzene	U		0.00139	0.00599	1	03/25/2019 19:29	WG1254917
1,2,3-Trimethylbenzene	U		0.00138	0.00599	1	03/25/2019 19:29	WG1254917
1,3,5-Trimethylbenzene	U		0.00129	0.00599	1	03/25/2019 19:29	WG1254917
Vinyl acetate	U		0.00422	0.0150	1	03/25/2019 19:29	WG1254917
Vinyl chloride	U		0.000819	0.00300	1	03/25/2019 19:29	WG1254917
Xylenes, Total	U		0.00573	0.00779	1	03/25/2019 19:29	WG1254917
(S) Toluene-d8	*105*			*75.0-131*		*03/25/2019 19:29*	WG1254917
(S) Toluene-d8	*94.4*			*75.0-131*		*03/26/2019 20:27*	WG1255751
(S) 4-Bromofluorobenzene	*95.1*			*67.0-138*		*03/25/2019 19:29*	WG1254917
(S) 4-Bromofluorobenzene	*79.3*			*67.0-138*		*03/26/2019 20:27*	WG1255751
(S) 1,2-Dichloroethane-d4	*99.5*			*70.0-130*		*03/25/2019 19:29*	WG1254917
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/26/2019 20:27*	WG1255751

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.9		1	03/25/2019 11:12	WG1254494

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0227 J	J	0.0166	0.0304	1.01	03/26/2019 20:47	WG1255751
Acrylonitrile	U		0.00231	0.0152	1.01	03/25/2019 19:49	WG1254917
Benzene	U		0.000487	0.00122	1.01	03/25/2019 19:49	WG1254917
Bromobenzene	U		0.00128	0.0152	1.01	03/25/2019 19:49	WG1254917
Bromodichloromethane	U		0.000960	0.00304	1.01	03/25/2019 19:49	WG1254917
Bromochloromethane	U UJ	J4	0.00137	0.00609	1.01	03/25/2019 19:49	WG1254917
Bromoform	U		0.00728	0.0304	1.01	03/25/2019 19:49	WG1254917
Bromomethane	U		0.00451	0.0152	1.01	03/25/2019 19:49	WG1254917
n-Butylbenzene	U		0.00468	0.0152	1.01	03/25/2019 19:49	WG1254917
sec-Butylbenzene	U		0.00309	0.0152	1.01	03/25/2019 19:49	WG1254917
tert-Butylbenzene	U		0.00188	0.00609	1.01	03/25/2019 19:49	WG1254917
Carbon disulfide	U		0.00494	0.0152	1.01	03/25/2019 19:49	WG1254917
Carbon tetrachloride	U		0.00131	0.00609	1.01	03/25/2019 19:49	WG1254917
Chlorobenzene	U		0.000698	0.00304	1.01	03/25/2019 19:49	WG1254917
Chlorodibromomethane	U		0.000547	0.00304	1.01	03/25/2019 19:49	WG1254917
Chloroethane	U		0.00131	0.00609	1.01	03/25/2019 19:49	WG1254917
Chloroform	U		0.000505	0.00304	1.01	03/25/2019 19:49	WG1254917
Chloromethane	U		0.00169	0.0152	1.01	03/25/2019 19:49	WG1254917
2-Chlorotoluene	U		0.00112	0.00304	1.01	03/25/2019 19:49	WG1254917
4-Chlorotoluene	U		0.00137	0.00609	1.01	03/25/2019 19:49	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00621	0.0304	1.01	03/25/2019 19:49	WG1254917
1,2-Dibromoethane	U		0.000639	0.00304	1.01	03/25/2019 19:49	WG1254917
Dibromomethane	U		0.00122	0.00609	1.01	03/25/2019 19:49	WG1254917
1,2-Dichlorobenzene	U		0.00176	0.00609	1.01	03/25/2019 19:49	WG1254917
1,3-Dichlorobenzene	U		0.00207	0.00609	1.01	03/25/2019 19:49	WG1254917
1,4-Dichlorobenzene	U		0.00240	0.00609	1.01	03/25/2019 19:49	WG1254917
Dichlorodifluoromethane	U		0.000996	0.00304	1.01	03/25/2019 19:49	WG1254917
1,1-Dichloroethane	U		0.000700	0.00304	1.01	03/25/2019 19:49	WG1254917
1,2-Dichloroethane	U		0.000579	0.00304	1.01	03/25/2019 19:49	WG1254917
1,1-Dichloroethene	U		0.000609	0.00304	1.01	03/25/2019 19:49	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000840	0.00304	1.01	03/25/2019 19:49	WG1254917
trans-1,2-Dichloroethene	U		0.00174	0.00609	1.01	03/25/2019 19:49	WG1254917
1,2-Dichloropropane	U		0.00154	0.00609	1.01	03/25/2019 19:49	WG1254917
1,1-Dichloropropene	U		0.000852	0.00304	1.01	03/25/2019 19:49	WG1254917
1,3-Dichloropropane	U		0.00213	0.00609	1.01	03/25/2019 19:49	WG1254917
cis-1,3-Dichloropropene	U		0.000826	0.00304	1.01	03/25/2019 19:49	WG1254917
trans-1,3-Dichloropropene	U		0.00186	0.00609	1.01	03/25/2019 19:49	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00170	0.00609	1.01	03/25/2019 19:49	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000966	0.00304	1.01	03/25/2019 19:49	WG1254917
Di-isopropyl ether	U		0.000427	0.00122	1.01	03/25/2019 19:49	WG1254917
Ethylbenzene	U		0.000645	0.00304	1.01	03/25/2019 19:49	WG1254917
Hexachloro-1,3-butadiene	U		0.0154	0.0304	1.01	03/25/2019 19:49	WG1254917
2-Hexanone	U		0.0122	0.0304	1.01	03/25/2019 19:49	WG1254917
n-Hexane	U		0.00129	0.00609	1.01	03/25/2019 19:49	WG1254917
Iodomethane	U		0.00737	0.0152	1.01	03/25/2019 19:49	WG1254917
Isopropylbenzene	U		0.00105	0.00304	1.01	03/25/2019 19:49	WG1254917
p-Isopropyltoluene	U		0.00283	0.00609	1.01	03/25/2019 19:49	WG1254917
2-Butanone (MEK)	U		0.0152	0.0304	1.01	03/25/2019 19:49	WG1254917
Methylene Chloride	U		0.00809	0.0304	1.01	03/25/2019 19:49	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0304	1.01	03/25/2019 19:49	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000359	0.00122	1.01	03/25/2019 19:49	WG1254917
Naphthalene	U		0.00380	0.0152	1.01	03/25/2019 19:49	WG1254917
n-Propylbenzene	U		0.00143	0.00609	1.01	03/25/2019 19:49	WG1254917
Styrene	U		0.00333	0.0152	1.01	03/25/2019 19:49	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000609	0.00304	1.01	03/25/2019 19:49	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000475	0.00304	1.01	03/25/2019 19:49	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000822	0.00304	1.01	03/25/2019 19:49	WG1254917
Tetrachloroethene	U		0.000852	0.00304	1.01	03/25/2019 19:49	WG1254917
Toluene	0.00159 J	J	0.00152	0.00609	1.01	03/25/2019 19:49	WG1254917
1,2,3-Trichlorobenzene	U		0.000761	0.00304	1.01	03/25/2019 19:49	WG1254917
1,2,4-Trichlorobenzene	U		0.00587	0.0152	1.01	03/25/2019 19:49	WG1254917
1,1,1-Trichloroethane	U		0.000335	0.00304	1.01	03/25/2019 19:49	WG1254917
1,1,2-Trichloroethane	U		0.00108	0.00304	1.01	03/25/2019 19:49	WG1254917
Trichloroethene	U		0.000487	0.00122	1.01	03/25/2019 19:49	WG1254917
Trichlorofluoromethane	U		0.000609	0.00304	1.01	03/25/2019 19:49	WG1254917
1,2,3-Trichloropropane	U		0.00621	0.0152	1.01	03/25/2019 19:49	WG1254917
1,2,4-Trimethylbenzene	U		0.00141	0.00609	1.01	03/25/2019 19:49	WG1254917
1,2,3-Trimethylbenzene	U		0.00140	0.00609	1.01	03/25/2019 19:49	WG1254917
1,3,5-Trimethylbenzene	U		0.00131	0.00609	1.01	03/25/2019 19:49	WG1254917
Vinyl acetate	U		0.00429	0.0152	1.01	03/25/2019 19:49	WG1254917
Vinyl chloride	U		0.000832	0.00304	1.01	03/25/2019 19:49	WG1254917
Xylenes, Total	U		0.00582	0.00791	1.01	03/25/2019 19:49	WG1254917
(S) Toluene-d8	*107*			*75.0-131*		*03/25/2019 19:49*	WG1254917
(S) Toluene-d8	*93.3*			*75.0-131*		*03/26/2019 20:47*	WG1255751
(S) 4-Bromofluorobenzene	*92.6*			*67.0-138*		*03/25/2019 19:49*	WG1254917
(S) 4-Bromofluorobenzene	*78.8*			*67.0-138*		*03/26/2019 20:47*	WG1255751
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*03/25/2019 19:49*	WG1254917
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/26/2019 20:47*	WG1255751

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.6		1	03/25/2019 11:12	WG1254494

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0164 J	J	0.0153	0.0279	1	03/26/2019 21:06	WG1255751
Acrylonitrile	U		0.00212	0.0139	1	03/25/2019 20:08	WG1254917
Benzene	U		0.000446	0.00112	1	03/25/2019 20:08	WG1254917
Bromobenzene	U		0.00117	0.0139	1	03/25/2019 20:08	WG1254917
Bromodichloromethane	U		0.000879	0.00279	1	03/25/2019 20:08	WG1254917
Bromochloromethane	U UJ	J4	0.00126	0.00558	1	03/25/2019 20:08	WG1254917
Bromoform	U		0.00667	0.0279	1	03/25/2019 20:08	WG1254917
Bromomethane	U		0.00413	0.0139	1	03/25/2019 20:08	WG1254917
n-Butylbenzene	U		0.00428	0.0139	1	03/25/2019 20:08	WG1254917
sec-Butylbenzene	U		0.00282	0.0139	1	03/25/2019 20:08	WG1254917
tert-Butylbenzene	U		0.00173	0.00558	1	03/25/2019 20:08	WG1254917
Carbon disulfide	U		0.00453	0.0139	1	03/25/2019 20:08	WG1254917
Carbon tetrachloride	U		0.00120	0.00558	1	03/25/2019 20:08	WG1254917
Chlorobenzene	U		0.000639	0.00279	1	03/25/2019 20:08	WG1254917
Chlorodibromomethane	U		0.000502	0.00279	1	03/25/2019 20:08	WG1254917
Chloroethane	U		0.00120	0.00558	1	03/25/2019 20:08	WG1254917
Chloroform	U		0.000463	0.00279	1	03/25/2019 20:08	WG1254917
Chloromethane	U		0.00155	0.0139	1	03/25/2019 20:08	WG1254917
2-Chlorotoluene	U		0.00103	0.00279	1	03/25/2019 20:08	WG1254917
4-Chlorotoluene	U		0.00126	0.00558	1	03/25/2019 20:08	WG1254917
1,2-Dibromo-3-Chloropropane	U		0.00569	0.0279	1	03/25/2019 20:08	WG1254917
1,2-Dibromoethane	U		0.000586	0.00279	1	03/25/2019 20:08	WG1254917
Dibromomethane	U		0.00112	0.00558	1	03/25/2019 20:08	WG1254917
1,2-Dichlorobenzene	U		0.00162	0.00558	1	03/25/2019 20:08	WG1254917
1,3-Dichlorobenzene	U		0.00190	0.00558	1	03/25/2019 20:08	WG1254917
1,4-Dichlorobenzene	U		0.00220	0.00558	1	03/25/2019 20:08	WG1254917
Dichlorodifluoromethane	U		0.000912	0.00279	1	03/25/2019 20:08	WG1254917
1,1-Dichloroethane	U		0.000641	0.00279	1	03/25/2019 20:08	WG1254917
1,2-Dichloroethane	U		0.000530	0.00279	1	03/25/2019 20:08	WG1254917
1,1-Dichloroethene	U		0.000558	0.00279	1	03/25/2019 20:08	WG1254917
cis-1,2-Dichloroethene	U	~~J4~~	0.000770	0.00279	1	03/25/2019 20:08	WG1254917
trans-1,2-Dichloroethene	U		0.00160	0.00558	1	03/25/2019 20:08	WG1254917
1,2-Dichloropropane	U		0.00142	0.00558	1	03/25/2019 20:08	WG1254917
1,1-Dichloropropene	U		0.000781	0.00279	1	03/25/2019 20:08	WG1254917
1,3-Dichloropropane	U		0.00195	0.00558	1	03/25/2019 20:08	WG1254917
cis-1,3-Dichloropropene	U		0.000756	0.00279	1	03/25/2019 20:08	WG1254917
trans-1,3-Dichloropropene	U		0.00171	0.00558	1	03/25/2019 20:08	WG1254917
trans-1,4-Dichloro-2-butene	U		0.00156	0.00558	1	03/25/2019 20:08	WG1254917
2,2-Dichloropropane	U	~~J4~~	0.000885	0.00279	1	03/25/2019 20:08	WG1254917
Di-isopropyl ether	U		0.000390	0.00112	1	03/25/2019 20:08	WG1254917
Ethylbenzene	U		0.000591	0.00279	1	03/25/2019 20:08	WG1254917
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	03/25/2019 20:08	WG1254917
2-Hexanone	U		0.0112	0.0279	1	03/25/2019 20:08	WG1254917
n-Hexane	U		0.00118	0.00558	1	03/25/2019 20:08	WG1254917
Iodomethane	U		0.00675	0.0139	1	03/25/2019 20:08	WG1254917
Isopropylbenzene	U		0.000963	0.00279	1	03/25/2019 20:08	WG1254917
p-Isopropyltoluene	U		0.00260	0.00558	1	03/25/2019 20:08	WG1254917
2-Butanone (MEK)	U		0.0139	0.0279	1	03/25/2019 20:08	WG1254917
Methylene Chloride	U		0.00741	0.0279	1	03/25/2019 20:08	WG1254917
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	03/25/2019 20:08	WG1254917

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00112	1	03/25/2019 20:08	WG1254917
Naphthalene	U		0.00348	0.0139	1	03/25/2019 20:08	WG1254917
n-Propylbenzene	U		0.00132	0.00558	1	03/25/2019 20:08	WG1254917
Styrene	U		0.00305	0.0139	1	03/25/2019 20:08	WG1254917
1,1,1,2-Tetrachloroethane	U		0.000558	0.00279	1	03/25/2019 20:08	WG1254917
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	03/25/2019 20:08	WG1254917
1,1,2-Trichlorotrifluoroethane	U		0.000753	0.00279	1	03/25/2019 20:08	WG1254917
Tetrachloroethene	U		0.000781	0.00279	1	03/25/2019 20:08	WG1254917
Toluene	U		0.00139	0.00558	1	03/25/2019 20:08	WG1254917
1,2,3-Trichlorobenzene	U		0.000697	0.00279	1	03/25/2019 20:08	WG1254917
1,2,4-Trichlorobenzene	U		0.00538	0.0139	1	03/25/2019 20:08	WG1254917
1,1,1-Trichloroethane	U		0.000307	0.00279	1	03/25/2019 20:08	WG1254917
1,1,2-Trichloroethane	U		0.000985	0.00279	1	03/25/2019 20:08	WG1254917
Trichloroethene	U		0.000446	0.00112	1	03/25/2019 20:08	WG1254917
Trichlorofluoromethane	U		0.000558	0.00279	1	03/25/2019 20:08	WG1254917
1,2,3-Trichloropropane	U		0.00569	0.0139	1	03/25/2019 20:08	WG1254917
1,2,4-Trimethylbenzene	U		0.00129	0.00558	1	03/25/2019 20:08	WG1254917
1,2,3-Trimethylbenzene	U		0.00128	0.00558	1	03/25/2019 20:08	WG1254917
1,3,5-Trimethylbenzene	U		0.00120	0.00558	1	03/25/2019 20:08	WG1254917
Vinyl acetate	U		0.00393	0.0139	1	03/25/2019 20:08	WG1254917
Vinyl chloride	U		0.000762	0.00279	1	03/25/2019 20:08	WG1254917
Xylenes, Total	U		0.00533	0.00725	1	03/25/2019 20:08	WG1254917
(S) Toluene-d8	*106*			*75.0-131*		*03/25/2019 20:08*	WG1254917
(S) Toluene-d8	*93.6*			*75.0-131*		*03/26/2019 21:06*	WG1255751
(S) 4-Bromofluorobenzene	*90.9*			*67.0-138*		*03/25/2019 20:08*	WG1254917
(S) 4-Bromofluorobenzene	*75.9*			*67.0-138*		*03/26/2019 21:06*	WG1255751
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/25/2019 20:08*	WG1254917
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/26/2019 21:06*	WG1255751

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.4		1	03/25/2019 11:12	WG1254494

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0247 J	J	0.0172	0.0315	1	03/26/2019 11:57	WG1255220
Acrylonitrile	U		0.00239	0.0157	1	03/25/2019 10:35	WG1254919
Benzene	U		0.000504	0.00126	1	03/25/2019 10:35	WG1254919
Bromobenzene	U	~~J4~~	0.00132	0.0157	1	03/25/2019 10:35	WG1254919
Bromodichloromethane	U		0.000992	0.00315	1	03/25/2019 10:35	WG1254919
Bromochloromethane	U		0.00142	0.00630	1	03/25/2019 10:35	WG1254919
Bromoform	U		0.00753	0.0315	1	03/25/2019 10:35	WG1254919
Bromomethane	U		0.00466	0.0157	1	03/25/2019 10:35	WG1254919
n-Butylbenzene	U		0.00483	0.0157	1	03/25/2019 10:35	WG1254919
sec-Butylbenzene	U		0.00319	0.0157	1	03/25/2019 10:35	WG1254919
tert-Butylbenzene	U		0.00195	0.00630	1	03/25/2019 10:35	WG1254919
Carbon disulfide	U		0.00511	0.0157	1	03/25/2019 10:35	WG1254919
Carbon tetrachloride	U		0.00136	0.00630	1	03/25/2019 10:35	WG1254919
Chlorobenzene	U		0.000721	0.00315	1	03/25/2019 10:35	WG1254919
Chlorodibromomethane	U		0.000567	0.00315	1	03/25/2019 10:35	WG1254919
Chloroethane	U		0.00136	0.00630	1	03/25/2019 10:35	WG1254919
Chloroform	U		0.000522	0.00315	1	03/25/2019 10:35	WG1254919
Chloromethane	U	~~J4~~	0.00175	0.0157	1	03/25/2019 10:35	WG1254919
2-Chlorotoluene	U		0.00116	0.00315	1	03/25/2019 10:35	WG1254919
4-Chlorotoluene	U		0.00142	0.00630	1	03/25/2019 10:35	WG1254919
1,2-Dibromo-3-Chloropropane	U		0.00642	0.0315	1	03/25/2019 10:35	WG1254919
1,2-Dibromoethane	U		0.000661	0.00315	1	03/25/2019 10:35	WG1254919
Dibromomethane	U	~~J4~~	0.00126	0.00630	1	03/25/2019 10:35	WG1254919
1,2-Dichlorobenzene	U		0.00183	0.00630	1	03/25/2019 10:35	WG1254919
1,3-Dichlorobenzene	U		0.00214	0.00630	1	03/25/2019 10:35	WG1254919
1,4-Dichlorobenzene	U		0.00248	0.00630	1	03/25/2019 10:35	WG1254919
Dichlorodifluoromethane	U		0.00103	0.00315	1	03/25/2019 10:35	WG1254919
1,1-Dichloroethane	U		0.000724	0.00315	1	03/25/2019 10:35	WG1254919
1,2-Dichloroethane	U		0.000598	0.00315	1	03/25/2019 10:35	WG1254919
1,1-Dichloroethene	U		0.000630	0.00315	1	03/25/2019 10:35	WG1254919
cis-1,2-Dichloroethene	U		0.000869	0.00315	1	03/25/2019 10:35	WG1254919
trans-1,2-Dichloroethene	U		0.00180	0.00630	1	03/25/2019 10:35	WG1254919
1,2-Dichloropropane	U		0.00160	0.00630	1	03/26/2019 11:57	WG1255220
1,1-Dichloropropene	U		0.000881	0.00315	1	03/25/2019 10:35	WG1254919
1,3-Dichloropropane	U		0.00220	0.00630	1	03/25/2019 10:35	WG1254919
cis-1,3-Dichloropropene	U		0.000854	0.00315	1	03/25/2019 10:35	WG1254919
trans-1,3-Dichloropropene	U		0.00193	0.00630	1	03/25/2019 10:35	WG1254919
trans-1,4-Dichloro-2-butene	U		0.00176	0.00630	1	03/25/2019 10:35	WG1254919
2,2-Dichloropropane	U		0.000998	0.00315	1	03/25/2019 10:35	WG1254919
Di-isopropyl ether	U		0.000441	0.00126	1	03/25/2019 10:35	WG1254919
Ethylbenzene	U		0.000667	0.00315	1	03/25/2019 10:35	WG1254919
Hexachloro-1,3-butadiene	U		0.0160	0.0315	1	03/25/2019 10:35	WG1254919
2-Hexanone	U		0.0126	0.0315	1	03/25/2019 10:35	WG1254919
n-Hexane	U		0.00133	0.00630	1	03/25/2019 10:35	WG1254919
Iodomethane	U		0.00762	0.0157	1	03/25/2019 10:35	WG1254919
Isopropylbenzene	U		0.00109	0.00315	1	03/25/2019 10:35	WG1254919
p-Isopropyltoluene	U		0.00293	0.00630	1	03/25/2019 10:35	WG1254919
2-Butanone (MEK)	U		0.0157	0.0315	1	03/25/2019 10:35	WG1254919
Methylene Chloride	U		0.00836	0.0315	1	03/25/2019 10:35	WG1254919
4-Methyl-2-pentanone (MIBK)	U		0.0126	0.0315	1	03/25/2019 10:35	WG1254919

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000371	0.00126	1	03/25/2019 10:35	WG1254919
Naphthalene	0.00418	J	J	0.00393	0.0157	1	03/25/2019 10:35	WG1254919
n-Propylbenzene	U			0.00149	0.00630	1	03/25/2019 10:35	WG1254919
Styrene	U			0.00344	0.0157	1	03/25/2019 10:35	WG1254919
1,1,1,2-Tetrachloroethane	U			0.000630	0.00315	1	03/25/2019 10:35	WG1254919
1,1,2,2-Tetrachloroethane	U			0.000491	0.00315	1	03/25/2019 10:35	WG1254919
1,1,2-Trichlorotrifluoroethane	U			0.000850	0.00315	1	03/26/2019 11:57	WG1255220
Tetrachloroethene	U			0.000881	0.00315	1	03/25/2019 10:35	WG1254919
Toluene	U			0.00157	0.00630	1	03/25/2019 10:35	WG1254919
1,2,3-Trichlorobenzene	U			0.000787	0.00315	1	03/25/2019 10:35	WG1254919
1,2,4-Trichlorobenzene	U			0.00607	0.0157	1	03/25/2019 10:35	WG1254919
1,1,1-Trichloroethane	U			0.000346	0.00315	1	03/25/2019 10:35	WG1254919
1,1,2-Trichloroethane	U	UJ	J4	0.00111	0.00315	1	03/25/2019 10:35	WG1254919
Trichloroethene	U			0.000504	0.00126	1	03/26/2019 11:57	WG1255220
Trichlorofluoromethane	U			0.000630	0.00315	1	03/25/2019 10:35	WG1254919
1,2,3-Trichloropropane	U			0.00642	0.0157	1	03/25/2019 10:35	WG1254919
1,2,4-Trimethylbenzene	U			0.00146	0.00630	1	03/25/2019 10:35	WG1254919
1,2,3-Trimethylbenzene	U			0.00145	0.00630	1	03/25/2019 10:35	WG1254919
1,3,5-Trimethylbenzene	U			0.00136	0.00630	1	03/25/2019 10:35	WG1254919
Vinyl acetate	U			0.00443	0.0157	1	03/25/2019 10:35	WG1254919
Vinyl chloride	U			0.000860	0.00315	1	03/25/2019 10:35	WG1254919
Xylenes, Total	U			0.00602	0.00818	1	03/25/2019 10:35	WG1254919
(S) Toluene-d8	*104*				*75.0-131*		*03/25/2019 10:35*	WG1254919
(S) Toluene-d8	*94.4*				*75.0-131*		*03/26/2019 11:57*	WG1255220
(S) 4-Bromofluorobenzene	*89.3*				*67.0-138*		*03/25/2019 10:35*	WG1254919
(S) 4-Bromofluorobenzene	*79.9*				*67.0-138*		*03/26/2019 11:57*	WG1255220
(S) 1,2-Dichloroethane-d4	*104*				*70.0-130*		*03/25/2019 10:35*	WG1254919
(S) 1,2-Dichloroethane-d4	*110*				*70.0-130*		*03/26/2019 11:57*	WG1255220

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.2		1	03/25/2019 11:12	WG1254494

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0183	0.0335	1.09	03/26/2019 12:16	WG1255220
Acrylonitrile	U		0.00255	0.0168	1.09	03/25/2019 10:53	WG1254919
Benzene	U		0.000537	0.00134	1.09	03/25/2019 10:53	WG1254919
Bromobenzene	U	~~J4~~	0.00140	0.0168	1.09	03/25/2019 10:53	WG1254919
Bromodichloromethane	U		0.00106	0.00335	1.09	03/25/2019 10:53	WG1254919
Bromochloromethane	U		0.00151	0.00671	1.09	03/25/2019 10:53	WG1254919
Bromoform	U		0.00803	0.0335	1.09	03/25/2019 10:53	WG1254919
Bromomethane	U		0.00496	0.0168	1.09	03/25/2019 10:53	WG1254919
n-Butylbenzene	U		0.00515	0.0168	1.09	03/25/2019 10:53	WG1254919
sec-Butylbenzene	U		0.00340	0.0168	1.09	03/25/2019 10:53	WG1254919
tert-Butylbenzene	U		0.00208	0.00671	1.09	03/25/2019 10:53	WG1254919
Carbon disulfide	U		0.00544	0.0168	1.09	03/25/2019 10:53	WG1254919
Carbon tetrachloride	U		0.00145	0.00671	1.09	03/25/2019 10:53	WG1254919
Chlorobenzene	U		0.000768	0.00335	1.09	03/25/2019 10:53	WG1254919
Chlorodibromomethane	U		0.000603	0.00335	1.09	03/25/2019 10:53	WG1254919
Chloroethane	U		0.00145	0.00671	1.09	03/25/2019 10:53	WG1254919
Chloroform	U		0.000556	0.00335	1.09	03/25/2019 10:53	WG1254919
Chloromethane	U	~~J4~~	0.00187	0.0168	1.09	03/25/2019 10:53	WG1254919
2-Chlorotoluene	U		0.00123	0.00335	1.09	03/25/2019 10:53	WG1254919
4-Chlorotoluene	U		0.00151	0.00671	1.09	03/25/2019 10:53	WG1254919
1,2-Dibromo-3-Chloropropane	U		0.00685	0.0335	1.09	03/25/2019 10:53	WG1254919
1,2-Dibromoethane	U		0.000704	0.00335	1.09	03/25/2019 10:53	WG1254919
Dibromomethane	U	~~J4~~	0.00134	0.00671	1.09	03/25/2019 10:53	WG1254919
1,2-Dichlorobenzene	U		0.00195	0.00671	1.09	03/25/2019 10:53	WG1254919
1,3-Dichlorobenzene	U		0.00228	0.00671	1.09	03/25/2019 10:53	WG1254919
1,4-Dichlorobenzene	U		0.00265	0.00671	1.09	03/25/2019 10:53	WG1254919
Dichlorodifluoromethane	U		0.00110	0.00335	1.09	03/25/2019 10:53	WG1254919
1,1-Dichloroethane	U		0.000772	0.00335	1.09	03/25/2019 10:53	WG1254919
1,2-Dichloroethane	U		0.000638	0.00335	1.09	03/25/2019 10:53	WG1254919
1,1-Dichloroethene	U		0.000671	0.00335	1.09	03/25/2019 10:53	WG1254919
cis-1,2-Dichloroethene	U UJ		0.000926	0.00335	1.09	03/25/2019 10:53	WG1254919
trans-1,2-Dichloroethene	U		0.00192	0.00671	1.09	03/25/2019 10:53	WG1254919
1,2-Dichloropropane	U		0.00170	0.00671	1.09	03/26/2019 12:16	WG1255220
1,1-Dichloropropene	U		0.000939	0.00335	1.09	03/25/2019 10:53	WG1254919
1,3-Dichloropropane	U		0.00235	0.00671	1.09	03/25/2019 10:53	WG1254919
cis-1,3-Dichloropropene	U		0.000910	0.00335	1.09	03/25/2019 10:53	WG1254919
trans-1,3-Dichloropropene	U		0.00206	0.00671	1.09	03/25/2019 10:53	WG1254919
trans-1,4-Dichloro-2-butene	U		0.00188	0.00671	1.09	03/25/2019 10:53	WG1254919
2,2-Dichloropropane	U		0.00106	0.00335	1.09	03/25/2019 10:53	WG1254919
Di-isopropyl ether	U		0.000470	0.00134	1.09	03/25/2019 10:53	WG1254919
Ethylbenzene	U		0.000712	0.00335	1.09	03/25/2019 10:53	WG1254919
Hexachloro-1,3-butadiene	U		0.0170	0.0335	1.09	03/25/2019 10:53	WG1254919
2-Hexanone	U		0.0134	0.0335	1.09	03/25/2019 10:53	WG1254919
n-Hexane	U UJ		0.00143	0.00671	1.09	03/25/2019 10:53	WG1254919
Iodomethane	U		0.00811	0.0168	1.09	03/25/2019 10:53	WG1254919
Isopropylbenzene	U		0.00116	0.00335	1.09	03/25/2019 10:53	WG1254919
p-Isopropyltoluene	U		0.00313	0.00671	1.09	03/25/2019 10:53	WG1254919
2-Butanone (MEK)	U		0.0167	0.0335	1.09	03/25/2019 10:53	WG1254919
Methylene Chloride	U		0.00891	0.0335	1.09	03/25/2019 10:53	WG1254919
4-Methyl-2-pentanone (MIBK)	U		0.0134	0.0335	1.09	03/25/2019 10:53	WG1254919

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000396	0.00134	1.09	03/25/2019 10:53	WG1254919
Naphthalene	U		0.00419	0.0168	1.09	03/25/2019 10:53	WG1254919
n-Propylbenzene	U		0.00159	0.00671	1.09	03/25/2019 10:53	WG1254919
Styrene	U		0.00367	0.0168	1.09	03/25/2019 10:53	WG1254919
1,1,1,2-Tetrachloroethane	U		0.000671	0.00335	1.09	03/25/2019 10:53	WG1254919
1,1,2,2-Tetrachloroethane	U		0.000523	0.00335	1.09	03/25/2019 10:53	WG1254919
1,1,2-Trichlorotrifluoroethane	U		0.000906	0.00335	1.09	03/26/2019 12:16	WG1255220
Tetrachloroethene	U UJ		0.000939	0.00335	1.09	03/25/2019 10:53	WG1254919
Toluene	U		0.00167	0.00671	1.09	03/25/2019 10:53	WG1254919
1,2,3-Trichlorobenzene	U		0.000838	0.00335	1.09	03/25/2019 10:53	WG1254919
1,2,4-Trichlorobenzene	U		0.00646	0.0168	1.09	03/25/2019 10:53	WG1254919
1,1,1-Trichloroethane	U		0.000369	0.00335	1.09	03/25/2019 10:53	WG1254919
1,1,2-Trichloroethane	U UJ	J4	0.00118	0.00335	1.09	03/25/2019 10:53	WG1254919
Trichloroethene	U UJ		0.000537	0.00134	1.09	03/26/2019 12:16	WG1255220
Trichlorofluoromethane	U		0.000671	0.00335	1.09	03/25/2019 10:53	WG1254919
1,2,3-Trichloropropane	U		0.00685	0.0168	1.09	03/25/2019 10:53	WG1254919
1,2,4-Trimethylbenzene	U		0.00155	0.00671	1.09	03/25/2019 10:53	WG1254919
1,2,3-Trimethylbenzene	U		0.00154	0.00671	1.09	03/25/2019 10:53	WG1254919
1,3,5-Trimethylbenzene	U		0.00145	0.00671	1.09	03/25/2019 10:53	WG1254919
Vinyl acetate	U		0.00473	0.0168	1.09	03/25/2019 10:53	WG1254919
Vinyl chloride	U		0.000916	0.00335	1.09	03/25/2019 10:53	WG1254919
Xylenes, Total	U		0.00641	0.00872	1.09	03/25/2019 10:53	WG1254919
(S) Toluene-d8	*107*			*75.0-131*		*03/25/2019 10:53*	WG1254919
(S) Toluene-d8	*93.7*			*75.0-131*		*03/26/2019 12:16*	WG1255220
(S) 4-Bromofluorobenzene	*95.7*			*67.0-138*		*03/25/2019 10:53*	WG1254919
(S) 4-Bromofluorobenzene	*79.6*			*67.0-138*		*03/26/2019 12:16*	WG1255220
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/25/2019 10:53*	WG1254919
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/26/2019 12:16*	WG1255220

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	03/24/2019 22:56	WG1254708
Acrylonitrile	U		0.873	5.00	1	03/24/2019 22:56	WG1254708
Benzene	U		0.0896	0.500	1	03/24/2019 22:56	WG1254708
Bromobenzene	U		0.133	0.500	1	03/24/2019 22:56	WG1254708
Bromodichloromethane	U		0.0800	0.500	1	03/24/2019 22:56	WG1254708
Bromochloromethane	U		0.145	0.500	1	03/24/2019 22:56	WG1254708
Bromoform	U		0.186	0.500	1	03/24/2019 22:56	WG1254708
Bromomethane	U		0.157	2.50	1	03/24/2019 22:56	WG1254708
n-Butylbenzene	U		0.143	0.500	1	03/24/2019 22:56	WG1254708
sec-Butylbenzene	U		0.134	0.500	1	03/24/2019 22:56	WG1254708
tert-Butylbenzene	U		0.183	0.500	1	03/24/2019 22:56	WG1254708
Carbon disulfide	U		0.101	0.500	1	03/24/2019 22:56	WG1254708
Carbon tetrachloride	U		0.159	0.500	1	03/24/2019 22:56	WG1254708
Chlorobenzene	U		0.140	0.500	1	03/24/2019 22:56	WG1254708
Chlorodibromomethane	U		0.128	0.500	1	03/24/2019 22:56	WG1254708
Chloroethane	U		0.141	2.50	1	03/24/2019 22:56	WG1254708
Chloroform	U		0.0860	0.500	1	03/24/2019 22:56	WG1254708
Chloromethane	U		0.153	1.25	1	03/24/2019 22:56	WG1254708
2-Chlorotoluene	U		0.111	0.500	1	03/24/2019 22:56	WG1254708
4-Chlorotoluene	U		0.0972	0.500	1	03/24/2019 22:56	WG1254708
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/24/2019 22:56	WG1254708
1,2-Dibromoethane	U		0.193	0.500	1	03/24/2019 22:56	WG1254708
Dibromomethane	U		0.117	0.500	1	03/24/2019 22:56	WG1254708
1,2-Dichlorobenzene	U		0.101	0.500	1	03/24/2019 22:56	WG1254708
1,3-Dichlorobenzene	U		0.130	0.500	1	03/24/2019 22:56	WG1254708
1,4-Dichlorobenzene	U		0.121	0.500	1	03/24/2019 22:56	WG1254708
Dichlorodifluoromethane	U		0.127	2.50	1	03/24/2019 22:56	WG1254708
1,1-Dichloroethane	U		0.114	0.500	1	03/24/2019 22:56	WG1254708
1,2-Dichloroethane	U		0.108	0.500	1	03/24/2019 22:56	WG1254708
1,1-Dichloroethene	U		0.188	0.500	1	03/24/2019 22:56	WG1254708
cis-1,2-Dichloroethene	U		0.0933	0.500	1	03/24/2019 22:56	WG1254708
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/24/2019 22:56	WG1254708
1,2-Dichloropropane	U		0.190	0.500	1	03/24/2019 22:56	WG1254708
1,1-Dichloropropene	U		0.128	0.500	1	03/24/2019 22:56	WG1254708
1,3-Dichloropropane	U		0.147	1.00	1	03/24/2019 22:56	WG1254708
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/24/2019 22:56	WG1254708
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/24/2019 22:56	WG1254708
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/24/2019 22:56	WG1254708
2,2-Dichloropropane	U		0.0929	0.500	1	03/24/2019 22:56	WG1254708
Di-isopropyl ether	U		0.0924	0.500	1	03/24/2019 22:56	WG1254708
Ethylbenzene	U		0.158	0.500	1	03/24/2019 22:56	WG1254708
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/24/2019 22:56	WG1254708
2-Hexanone	U		0.757	5.00	1	03/24/2019 22:56	WG1254708
n-Hexane	U		0.305	5.00	1	03/24/2019 22:56	WG1254708
Iodomethane	U		0.377	10.0	1	03/24/2019 22:56	WG1254708
Isopropylbenzene	U		0.126	0.500	1	03/24/2019 22:56	WG1254708
p-Isopropyltoluene	U		0.138	0.500	1	03/24/2019 22:56	WG1254708
2-Butanone (MEK)	U		1.28	5.00	1	03/24/2019 22:56	WG1254708
Methylene Chloride	U		1.07	2.50	1	03/24/2019 22:56	WG1254708
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/24/2019 22:56	WG1254708
Methyl tert-butyl ether	U		0.102	0.500	1	03/24/2019 22:56	WG1254708
Naphthalene	U		0.174	2.50	1	03/24/2019 22:56	WG1254708
n-Propylbenzene	U		0.162	0.500	1	03/24/2019 22:56	WG1254708
Styrene	U		0.117	0.500	1	03/24/2019 22:56	WG1254708
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/24/2019 22:56	WG1254708
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/24/2019 22:56	WG1254708

JC 4/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/24/2019 22:56	WG1254708
Tetrachloroethene	U		0.199	0.500	1	03/24/2019 22:56	WG1254708
Toluene	U		0.412	0.500	1	03/24/2019 22:56	WG1254708
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/24/2019 22:56	WG1254708
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/24/2019 22:56	WG1254708
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/24/2019 22:56	WG1254708
1,1,2-Trichloroethane	U		0.186	0.500	1	03/24/2019 22:56	WG1254708
Trichloroethene	U		0.153	0.500	1	03/24/2019 22:56	WG1254708
Trichlorofluoromethane	U		0.130	2.50	1	03/24/2019 22:56	WG1254708
1,2,3-Trichloropropane	U		0.247	2.50	1	03/24/2019 22:56	WG1254708
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/24/2019 22:56	WG1254708
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/24/2019 22:56	WG1254708
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/24/2019 22:56	WG1254708
Vinyl acetate	U		0.645	5.00	1	03/24/2019 22:56	WG1254708
Vinyl chloride	U		0.118	0.500	1	03/24/2019 22:56	WG1254708
Xylenes, Total	U		0.316	1.50	1	03/24/2019 22:56	WG1254708
(S) Toluene-d8	*108*			*80.0-120*		*03/24/2019 22:56*	WG1254708
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*03/24/2019 22:56*	WG1254708
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*03/24/2019 22:56*	WG1254708

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	87.7		1	03/28/2019 13:09	WG1256858

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0156	0.0285	1	03/28/2019 15:30	WG1256911
Acrylonitrile	U		0.00217	0.0143	1	03/27/2019 16:39	WG1256234
Benzene	U		0.000456	0.00114	1	03/27/2019 16:39	WG1256234
Bromobenzene	U		0.00120	0.0143	1	03/27/2019 16:39	WG1256234
Bromodichloromethane	U		0.000899	0.00285	1	03/27/2019 16:39	WG1256234
Bromochloromethane	U UJ	J4	0.00129	0.00570	1	03/27/2019 16:39	WG1256234
Bromoform	U		0.00682	0.0285	1	03/27/2019 16:39	WG1256234
Bromomethane	U		0.00422	0.0143	1	03/27/2019 16:39	WG1256234
n-Butylbenzene	U		0.00438	0.0143	1	03/27/2019 16:39	WG1256234
sec-Butylbenzene	U		0.00289	0.0143	1	03/27/2019 16:39	WG1256234
tert-Butylbenzene	U		0.00177	0.00570	1	03/27/2019 16:39	WG1256234
Carbon disulfide	U		0.00463	0.0143	1	03/27/2019 16:39	WG1256234
Carbon tetrachloride	U		0.00123	0.00570	1	03/27/2019 16:39	WG1256234
Chlorobenzene	U		0.000653	0.00285	1	03/27/2019 16:39	WG1256234
Chlorodibromomethane	U		0.000513	0.00285	1	03/27/2019 16:39	WG1256234
Chloroethane	U		0.00123	0.00570	1	03/27/2019 16:39	WG1256234
Chloroform	U		0.000473	0.00285	1	03/27/2019 16:39	WG1256234
Chloromethane	U		0.00159	0.0143	1	03/27/2019 16:39	WG1256234
2-Chlorotoluene	U		0.00105	0.00285	1	03/27/2019 16:39	WG1256234
4-Chlorotoluene	U		0.00129	0.00570	1	03/27/2019 16:39	WG1256234
1,2-Dibromo-3-Chloropropane	U		0.00582	0.0285	1	03/27/2019 16:39	WG1256234
1,2-Dibromoethane	U		0.000599	0.00285	1	03/27/2019 16:39	WG1256234
Dibromomethane	U		0.00114	0.00570	1	03/27/2019 16:39	WG1256234
1,2-Dichlorobenzene	U		0.00165	0.00570	1	03/27/2019 16:39	WG1256234
1,3-Dichlorobenzene	U		0.00194	0.00570	1	03/27/2019 16:39	WG1256234
1,4-Dichlorobenzene	U		0.00225	0.00570	1	03/27/2019 16:39	WG1256234
Dichlorodifluoromethane	U		0.000933	0.00285	1	03/27/2019 16:39	WG1256234
1,1-Dichloroethane	U		0.000656	0.00285	1	03/27/2019 16:39	WG1256234
1,2-Dichloroethane	U		0.000542	0.00285	1	03/27/2019 16:39	WG1256234
1,1-Dichloroethene	U		0.000570	0.00285	1	03/27/2019 16:39	WG1256234
cis-1,2-Dichloroethene	U		0.000787	0.00285	1	03/27/2019 16:39	WG1256234
trans-1,2-Dichloroethene	U		0.00163	0.00570	1	03/27/2019 16:39	WG1256234
1,2-Dichloropropane	U		0.00145	0.00570	1	03/27/2019 16:39	WG1256234
1,1-Dichloropropene	U		0.000798	0.00285	1	03/27/2019 16:39	WG1256234
1,3-Dichloropropane	U		0.00200	0.00570	1	03/27/2019 16:39	WG1256234
cis-1,3-Dichloropropene	U		0.000773	0.00285	1	03/27/2019 16:39	WG1256234
trans-1,3-Dichloropropene	U		0.00174	0.00570	1	03/27/2019 16:39	WG1256234
trans-1,4-Dichloro-2-butene	U		0.00160	0.00570	1	03/27/2019 16:39	WG1256234
2,2-Dichloropropane	U		0.000904	0.00285	1	03/27/2019 16:39	WG1256234
Di-isopropyl ether	U		0.000399	0.00114	1	03/27/2019 16:39	WG1256234
Ethylbenzene	U		0.000604	0.00285	1	03/27/2019 16:39	WG1256234
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	03/27/2019 16:39	WG1256234
2-Hexanone	U		0.0114	0.0285	1	03/27/2019 16:39	WG1256234
n-Hexane	U		0.00121	0.00570	1	03/27/2019 16:39	WG1256234
Iodomethane	U		0.00690	0.0143	1	03/27/2019 16:39	WG1256234
Isopropylbenzene	U		0.000984	0.00285	1	03/27/2019 16:39	WG1256234
p-Isopropyltoluene	U		0.00266	0.00570	1	03/27/2019 16:39	WG1256234
2-Butanone (MEK)	U		0.0143	0.0285	1	03/27/2019 16:39	WG1256234
Methylene Chloride	U		0.00757	0.0285	1	03/27/2019 16:39	WG1256234
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	03/27/2019 16:39	WG1256234

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000336	0.00114	1	03/27/2019 16:39	WG1256234
Naphthalene	U		0.00356	0.0143	1	03/27/2019 16:39	WG1256234
n-Propylbenzene	U		0.00135	0.00570	1	03/27/2019 16:39	WG1256234
Styrene	U		0.00311	0.0143	1	03/27/2019 16:39	WG1256234
1,1,1,2-Tetrachloroethane	U		0.000570	0.00285	1	03/27/2019 16:39	WG1256234
1,1,2,2-Tetrachloroethane	U		0.000445	0.00285	1	03/27/2019 16:39	WG1256234
1,1,2-Trichlorotrifluoroethane	U		0.000770	0.00285	1	03/27/2019 16:39	WG1256234
Tetrachloroethene	U		0.000798	0.00285	1	03/27/2019 16:39	WG1256234
Toluene	U		0.00143	0.00570	1	03/27/2019 16:39	WG1256234
1,2,3-Trichlorobenzene	U		0.000713	0.00285	1	03/27/2019 16:39	WG1256234
1,2,4-Trichlorobenzene	U		0.00550	0.0143	1	03/27/2019 16:39	WG1256234
1,1,1-Trichloroethane	U		0.000314	0.00285	1	03/27/2019 16:39	WG1256234
1,1,2-Trichloroethane	U		0.00101	0.00285	1	03/27/2019 16:39	WG1256234
Trichloroethene	U		0.000456	0.00114	1	03/27/2019 16:39	WG1256234
Trichlorofluoromethane	U		0.000570	0.00285	1	03/27/2019 16:39	WG1256234
1,2,3-Trichloropropane	U		0.00582	0.0143	1	03/27/2019 16:39	WG1256234
1,2,4-Trimethylbenzene	U		0.00132	0.00570	1	03/27/2019 16:39	WG1256234
1,2,3-Trimethylbenzene	U		0.00131	0.00570	1	03/27/2019 16:39	WG1256234
1,3,5-Trimethylbenzene	U		0.00123	0.00570	1	03/27/2019 16:39	WG1256234
Vinyl acetate	U		0.00401	0.0143	1	03/27/2019 16:39	WG1256234
Vinyl chloride	U		0.000779	0.00285	1	03/27/2019 16:39	WG1256234
Xylenes, Total	U		0.00545	0.00741	1	03/27/2019 16:39	WG1256234
(S) Toluene-d8	*107*			*75.0-131*		*03/27/2019 16:39*	WG1256234
(S) Toluene-d8	*93.1*			*75.0-131*		*03/28/2019 15:30*	WG1256911
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*		*03/27/2019 16:39*	WG1256234
(S) 4-Bromofluorobenzene	*80.4*			*67.0-138*		*03/28/2019 15:30*	WG1256911
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/27/2019 16:39*	WG1256234
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/28/2019 15:30*	WG1256911

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.4		1	03/28/2019 13:09	WG1256858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0162	0.0296	1	03/28/2019 15:50	WG1256911
Acrylonitrile	U		0.00225	0.0148	1	03/27/2019 16:20	WG1256234
Benzene	U		0.000474	0.00118	1	03/27/2019 16:20	WG1256234
Bromobenzene	U		0.00124	0.0148	1	03/27/2019 16:20	WG1256234
Bromodichloromethane	U		0.000933	0.00296	1	03/27/2019 16:20	WG1256234
Bromochloromethane	U UJ	J4	0.00134	0.00592	1	03/27/2019 16:20	WG1256234
Bromoform	U		0.00708	0.0296	1	03/27/2019 16:20	WG1256234
Bromomethane	U		0.00438	0.0148	1	03/27/2019 16:20	WG1256234
n-Butylbenzene	U		0.00455	0.0148	1	03/27/2019 16:20	WG1256234
sec-Butylbenzene	U		0.00300	0.0148	1	03/27/2019 16:20	WG1256234
tert-Butylbenzene	U		0.00184	0.00592	1	03/27/2019 16:20	WG1256234
Carbon disulfide	U		0.00481	0.0148	1	03/27/2019 16:20	WG1256234
Carbon tetrachloride	U		0.00128	0.00592	1	03/27/2019 16:20	WG1256234
Chlorobenzene	U		0.000679	0.00296	1	03/27/2019 16:20	WG1256234
Chlorodibromomethane	U		0.000533	0.00296	1	03/27/2019 16:20	WG1256234
Chloroethane	U		0.00128	0.00592	1	03/27/2019 16:20	WG1256234
Chloroform	U		0.000492	0.00296	1	03/27/2019 16:20	WG1256234
Chloromethane	U		0.00165	0.0148	1	03/27/2019 16:20	WG1256234
2-Chlorotoluene	U		0.00109	0.00296	1	03/27/2019 16:20	WG1256234
4-Chlorotoluene	U		0.00134	0.00592	1	03/27/2019 16:20	WG1256234
1,2-Dibromo-3-Chloropropane	U		0.00604	0.0296	1	03/27/2019 16:20	WG1256234
1,2-Dibromoethane	U		0.000622	0.00296	1	03/27/2019 16:20	WG1256234
Dibromomethane	U		0.00118	0.00592	1	03/27/2019 16:20	WG1256234
1,2-Dichlorobenzene	U		0.00172	0.00592	1	03/27/2019 16:20	WG1256234
1,3-Dichlorobenzene	U		0.00201	0.00592	1	03/27/2019 16:20	WG1256234
1,4-Dichlorobenzene	U		0.00233	0.00592	1	03/27/2019 16:20	WG1256234
Dichlorodifluoromethane	U		0.000969	0.00296	1	03/27/2019 16:20	WG1256234
1,1-Dichloroethane	U		0.000681	0.00296	1	03/27/2019 16:20	WG1256234
1,2-Dichloroethane	U		0.000563	0.00296	1	03/27/2019 16:20	WG1256234
1,1-Dichloroethene	U		0.000592	0.00296	1	03/27/2019 16:20	WG1256234
cis-1,2-Dichloroethene	U		0.000817	0.00296	1	03/27/2019 16:20	WG1256234
trans-1,2-Dichloroethene	U		0.00169	0.00592	1	03/27/2019 16:20	WG1256234
1,2-Dichloropropane	U		0.00150	0.00592	1	03/27/2019 16:20	WG1256234
1,1-Dichloropropene	U		0.000829	0.00296	1	03/27/2019 16:20	WG1256234
1,3-Dichloropropane	U		0.00207	0.00592	1	03/27/2019 16:20	WG1256234
cis-1,3-Dichloropropene	U		0.000803	0.00296	1	03/27/2019 16:20	WG1256234
trans-1,3-Dichloropropene	U		0.00181	0.00592	1	03/27/2019 16:20	WG1256234
trans-1,4-Dichloro-2-butene	U		0.00166	0.00592	1	03/27/2019 16:20	WG1256234
2,2-Dichloropropane	U		0.000939	0.00296	1	03/27/2019 16:20	WG1256234
Di-isopropyl ether	U		0.000415	0.00118	1	03/27/2019 16:20	WG1256234
Ethylbenzene	U		0.000628	0.00296	1	03/27/2019 16:20	WG1256234
Hexachloro-1,3-butadiene	U		0.0150	0.0296	1	03/27/2019 16:20	WG1256234
2-Hexanone	U		0.0118	0.0296	1	03/27/2019 16:20	WG1256234
n-Hexane	U		0.00126	0.00592	1	03/27/2019 16:20	WG1256234
Iodomethane	U		0.00717	0.0148	1	03/27/2019 16:20	WG1256234
Isopropylbenzene	U		0.00102	0.00296	1	03/27/2019 16:20	WG1256234
p-Isopropyltoluene	U		0.00276	0.00592	1	03/27/2019 16:20	WG1256234
2-Butanone (MEK)	U		0.0148	0.0296	1	03/27/2019 16:20	WG1256234
Methylene Chloride	U		0.00787	0.0296	1	03/27/2019 16:20	WG1256234
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0296	1	03/27/2019 16:20	WG1256234

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000349	0.00118	1	03/27/2019 16:20	WG1256234
Naphthalene	U		0.00370	0.0148	1	03/27/2019 16:20	WG1256234
n-Propylbenzene	U		0.00140	0.00592	1	03/27/2019 16:20	WG1256234
Styrene	U		0.00323	0.0148	1	03/27/2019 16:20	WG1256234
1,1,1,2-Tetrachloroethane	U		0.000592	0.00296	1	03/27/2019 16:20	WG1256234
1,1,2,2-Tetrachloroethane	U		0.000462	0.00296	1	03/27/2019 16:20	WG1256234
1,1,2-Trichlorotrifluoroethane	U		0.000800	0.00296	1	03/27/2019 16:20	WG1256234
Tetrachloroethene	U		0.000829	0.00296	1	03/27/2019 16:20	WG1256234
Toluene	U		0.00148	0.00592	1	03/27/2019 16:20	WG1256234
1,2,3-Trichlorobenzene	U		0.000740	0.00296	1	03/27/2019 16:20	WG1256234
1,2,4-Trichlorobenzene	U		0.00571	0.0148	1	03/27/2019 16:20	WG1256234
1,1,1-Trichloroethane	U		0.000326	0.00296	1	03/27/2019 16:20	WG1256234
1,1,2-Trichloroethane	U		0.00105	0.00296	1	03/27/2019 16:20	WG1256234
Trichloroethene	U		0.000474	0.00118	1	03/27/2019 16:20	WG1256234
Trichlorofluoromethane	U		0.000592	0.00296	1	03/27/2019 16:20	WG1256234
1,2,3-Trichloropropane	U		0.00604	0.0148	1	03/27/2019 16:20	WG1256234
1,2,4-Trimethylbenzene	U		0.00137	0.00592	1	03/28/2019 15:50	WG1256911
1,2,3-Trimethylbenzene	U		0.00136	0.00592	1	03/27/2019 16:20	WG1256234
1,3,5-Trimethylbenzene	U		0.00128	0.00592	1	03/27/2019 16:20	WG1256234
Vinyl acetate	U		0.00417	0.0148	1	03/27/2019 16:20	WG1256234
Vinyl chloride	U		0.000809	0.00296	1	03/27/2019 16:20	WG1256234
Xylenes, Total	U		0.00566	0.00770	1	03/27/2019 16:20	WG1256234
(S) Toluene-d8	*107*			*75.0-131*		*03/27/2019 16:20*	WG1256234
(S) Toluene-d8	*92.4*			*75.0-131*		*03/28/2019 15:50*	WG1256911
(S) 4-Bromofluorobenzene	*97.9*			*67.0-138*		*03/27/2019 16:20*	WG1256234
(S) 4-Bromofluorobenzene	*80.8*			*67.0-138*		*03/28/2019 15:50*	WG1256911
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/27/2019 16:20*	WG1256234
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/28/2019 15:50*	WG1256911

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.0		1	03/28/2019 13:09	WG1256858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0287	1	03/28/2019 16:09	WG1256911
Acrylonitrile	U		0.00218	0.0144	1	03/27/2019 16:58	WG1256234
Benzene	U		0.000460	0.00115	1	03/27/2019 16:58	WG1256234
Bromobenzene	U		0.00121	0.0144	1	03/27/2019 16:58	WG1256234
Bromodichloromethane	U		0.000905	0.00287	1	03/27/2019 16:58	WG1256234
Bromochloromethane	U UJ	J4	0.00130	0.00574	1	03/27/2019 16:58	WG1256234
Bromoform	U		0.00687	0.0287	1	03/27/2019 16:58	WG1256234
Bromomethane	U		0.00425	0.0144	1	03/27/2019 16:58	WG1256234
n-Butylbenzene	U		0.00441	0.0144	1	03/27/2019 16:58	WG1256234
sec-Butylbenzene	U		0.00291	0.0144	1	03/27/2019 16:58	WG1256234
tert-Butylbenzene	U		0.00178	0.00574	1	03/27/2019 16:58	WG1256234
Carbon disulfide	U		0.00466	0.0144	1	03/27/2019 16:58	WG1256234
Carbon tetrachloride	U		0.00124	0.00574	1	03/27/2019 16:58	WG1256234
Chlorobenzene	U		0.000658	0.00287	1	03/27/2019 16:58	WG1256234
Chlorodibromomethane	U		0.000517	0.00287	1	03/27/2019 16:58	WG1256234
Chloroethane	U		0.00124	0.00574	1	03/27/2019 16:58	WG1256234
Chloroform	U		0.000477	0.00287	1	03/27/2019 16:58	WG1256234
Chloromethane	U		0.00160	0.0144	1	03/27/2019 16:58	WG1256234
2-Chlorotoluene	U		0.00106	0.00287	1	03/27/2019 16:58	WG1256234
4-Chlorotoluene	U		0.00130	0.00574	1	03/27/2019 16:58	WG1256234
1,2-Dibromo-3-Chloropropane	U		0.00586	0.0287	1	03/27/2019 16:58	WG1256234
1,2-Dibromoethane	U		0.000603	0.00287	1	03/27/2019 16:58	WG1256234
Dibromomethane	U		0.00115	0.00574	1	03/27/2019 16:58	WG1256234
1,2-Dichlorobenzene	U		0.00167	0.00574	1	03/27/2019 16:58	WG1256234
1,3-Dichlorobenzene	U		0.00195	0.00574	1	03/27/2019 16:58	WG1256234
1,4-Dichlorobenzene	U		0.00226	0.00574	1	03/27/2019 16:58	WG1256234
Dichlorodifluoromethane	U		0.000940	0.00287	1	03/27/2019 16:58	WG1256234
1,1-Dichloroethane	U		0.000661	0.00287	1	03/27/2019 16:58	WG1256234
1,2-Dichloroethane	U		0.000546	0.00287	1	03/27/2019 16:58	WG1256234
1,1-Dichloroethene	U		0.000574	0.00287	1	03/27/2019 16:58	WG1256234
cis-1,2-Dichloroethene	0.0169		0.000793	0.00287	1	03/27/2019 16:58	WG1256234
trans-1,2-Dichloroethene	U		0.00164	0.00574	1	03/27/2019 16:58	WG1256234
1,2-Dichloropropane	U		0.00146	0.00574	1	03/27/2019 16:58	WG1256234
1,1-Dichloropropene	U		0.000804	0.00287	1	03/27/2019 16:58	WG1256234
1,3-Dichloropropane	U		0.00201	0.00574	1	03/27/2019 16:58	WG1256234
cis-1,3-Dichloropropene	U		0.000779	0.00287	1	03/27/2019 16:58	WG1256234
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	03/27/2019 16:58	WG1256234
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	03/27/2019 16:58	WG1256234
2,2-Dichloropropane	U		0.000911	0.00287	1	03/27/2019 16:58	WG1256234
Di-isopropyl ether	U		0.000402	0.00115	1	03/27/2019 16:58	WG1256234
Ethylbenzene	U		0.000609	0.00287	1	03/27/2019 16:58	WG1256234
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	03/27/2019 16:58	WG1256234
2-Hexanone	U		0.0115	0.0287	1	03/27/2019 16:58	WG1256234
n-Hexane	U		0.00122	0.00574	1	03/27/2019 16:58	WG1256234
Iodomethane	U		0.00695	0.0144	1	03/27/2019 16:58	WG1256234
Isopropylbenzene	U		0.000991	0.00287	1	03/27/2019 16:58	WG1256234
p-Isopropyltoluene	U		0.00268	0.00574	1	03/27/2019 16:58	WG1256234
2-Butanone (MEK)	U		0.0144	0.0287	1	03/27/2019 16:58	WG1256234
Methylene Chloride	U		0.00763	0.0287	1	03/27/2019 16:58	WG1256234
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	03/27/2019 16:58	WG1256234

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000339	0.00115	1	03/27/2019 16:58	WG1256234
Naphthalene	U		0.00358	0.0144	1	03/27/2019 16:58	WG1256234
n-Propylbenzene	U		0.00136	0.00574	1	03/27/2019 16:58	WG1256234
Styrene	U		0.00314	0.0144	1	03/27/2019 16:58	WG1256234
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	03/27/2019 16:58	WG1256234
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	03/27/2019 16:58	WG1256234
1,1,2-Trichlorotrifluoroethane	U		0.000775	0.00287	1	03/27/2019 16:58	WG1256234
Tetrachloroethene	0.0498		0.000804	0.00287	1	03/27/2019 16:58	WG1256234
Toluene	U		0.00144	0.00574	1	03/27/2019 16:58	WG1256234
1,2,3-Trichlorobenzene	U		0.000718	0.00287	1	03/27/2019 16:58	WG1256234
1,2,4-Trichlorobenzene	U		0.00554	0.0144	1	03/27/2019 16:58	WG1256234
1,1,1-Trichloroethane	U		0.000316	0.00287	1	03/27/2019 16:58	WG1256234
1,1,2-Trichloroethane	U		0.00101	0.00287	1	03/27/2019 16:58	WG1256234
Trichloroethene	0.0117		0.000460	0.00115	1	03/27/2019 16:58	WG1256234
Trichlorofluoromethane	U		0.000574	0.00287	1	03/27/2019 16:58	WG1256234
1,2,3-Trichloropropane	U		0.00586	0.0144	1	03/27/2019 16:58	WG1256234
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	03/27/2019 16:58	WG1256234
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	03/27/2019 16:58	WG1256234
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	03/27/2019 16:58	WG1256234
Vinyl acetate	U		0.00404	0.0144	1	03/27/2019 16:58	WG1256234
Vinyl chloride	U		0.000785	0.00287	1	03/27/2019 16:58	WG1256234
Xylenes, Total	U		0.00549	0.00747	1	03/27/2019 16:58	WG1256234
(S) Toluene-d8	*102*			*75.0-131*		*03/27/2019 16:58*	WG1256234
(S) Toluene-d8	*93.2*			*75.0-131*		*03/28/2019 16:09*	WG1256911
(S) 4-Bromofluorobenzene	*94.1*			*67.0-138*		*03/27/2019 16:58*	WG1256234
(S) 4-Bromofluorobenzene	*80.5*			*67.0-138*		*03/28/2019 16:09*	WG1256911
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/27/2019 16:58*	WG1256234
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/28/2019 16:09*	WG1256911

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.7		1	03/28/2019 13:09	WG1256858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0274		0.0146	0.0267	1	03/28/2019 19:14	WG1257337
Acrylonitrile	U		0.00203	0.0133	1	03/28/2019 00:28	WG1256494
Benzene	U		0.000427	0.00107	1	03/28/2019 00:28	WG1256494
Bromobenzene	U		0.00112	0.0133	1	03/28/2019 00:28	WG1256494
Bromodichloromethane	U		0.000841	0.00267	1	03/28/2019 00:28	WG1256494
Bromochloromethane	U UJ	J4	0.00121	0.00534	1	03/28/2019 00:28	WG1256494
Bromoform	U	~~J4~~	0.00638	0.0267	1	03/28/2019 00:28	WG1256494
Bromomethane	U		0.00395	0.0133	1	03/28/2019 00:28	WG1256494
n-Butylbenzene	U		0.00410	0.0133	1	03/28/2019 00:28	WG1256494
sec-Butylbenzene	U		0.00270	0.0133	1	03/28/2019 00:28	WG1256494
tert-Butylbenzene	U		0.00165	0.00534	1	03/28/2019 00:28	WG1256494
Carbon disulfide	U		0.00433	0.0133	1	03/28/2019 00:28	WG1256494
Carbon tetrachloride	U		0.00115	0.00534	1	03/28/2019 00:28	WG1256494
Chlorobenzene	U		0.000611	0.00267	1	03/28/2019 00:28	WG1256494
Chlorodibromomethane	U		0.000480	0.00267	1	03/28/2019 00:28	WG1256494
Chloroethane	U		0.00115	0.00534	1	03/28/2019 00:28	WG1256494
Chloroform	U		0.000443	0.00267	1	03/28/2019 00:28	WG1256494
Chloromethane	U		0.00148	0.0133	1	03/28/2019 00:28	WG1256494
2-Chlorotoluene	U		0.000982	0.00267	1	03/28/2019 00:28	WG1256494
4-Chlorotoluene	U		0.00121	0.00534	1	03/28/2019 00:28	WG1256494
1,2-Dibromo-3-Chloropropane	U		0.00544	0.0267	1	03/28/2019 00:28	WG1256494
1,2-Dibromoethane	U		0.000560	0.00267	1	03/28/2019 00:28	WG1256494
Dibromomethane	U	~~J4~~	0.00107	0.00534	1	03/28/2019 00:28	WG1256494
1,2-Dichlorobenzene	U		0.00155	0.00534	1	03/28/2019 00:28	WG1256494
1,3-Dichlorobenzene	U		0.00181	0.00534	1	03/28/2019 00:28	WG1256494
1,4-Dichlorobenzene	U		0.00210	0.00534	1	03/28/2019 00:28	WG1256494
Dichlorodifluoromethane	U		0.000873	0.00267	1	03/28/2019 00:28	WG1256494
1,1-Dichloroethane	U		0.000614	0.00267	1	03/28/2019 00:28	WG1256494
1,2-Dichloroethane	U	~~J4~~	0.000507	0.00267	1	03/28/2019 00:28	WG1256494
1,1-Dichloroethene	U		0.000534	0.00267	1	03/28/2019 00:28	WG1256494
cis-1,2-Dichloroethene	0.00174 J	J	0.000736	0.00267	1	03/28/2019 00:28	WG1256494
trans-1,2-Dichloroethene	U		0.00153	0.00534	1	03/28/2019 00:28	WG1256494
1,2-Dichloropropane	U		0.00136	0.00534	1	03/28/2019 00:28	WG1256494
1,1-Dichloropropene	U		0.000747	0.00267	1	03/28/2019 00:28	WG1256494
1,3-Dichloropropane	U		0.00187	0.00534	1	03/28/2019 00:28	WG1256494
cis-1,3-Dichloropropene	U		0.000723	0.00267	1	03/28/2019 00:28	WG1256494
trans-1,3-Dichloropropene	U		0.00163	0.00534	1	03/28/2019 00:28	WG1256494
trans-1,4-Dichloro-2-butene	U		0.00149	0.00534	1	03/28/2019 00:28	WG1256494
2,2-Dichloropropane	U		0.000846	0.00267	1	03/28/2019 00:28	WG1256494
Di-isopropyl ether	U		0.000373	0.00107	1	03/28/2019 00:28	WG1256494
Ethylbenzene	U		0.000566	0.00267	1	03/28/2019 00:28	WG1256494
Hexachloro-1,3-butadiene	U		0.0136	0.0267	1	03/28/2019 00:28	WG1256494
2-Hexanone	U		0.0107	0.0267	1	03/28/2019 00:28	WG1256494
n-Hexane	U		0.00113	0.00534	1	03/28/2019 00:28	WG1256494
Iodomethane	U		0.00646	0.0133	1	03/28/2019 00:28	WG1256494
Isopropylbenzene	U		0.000921	0.00267	1	03/28/2019 00:28	WG1256494
p-Isopropyltoluene	U		0.00249	0.00534	1	03/28/2019 00:28	WG1256494
2-Butanone (MEK)	U		0.0133	0.0267	1	03/28/2019 00:28	WG1256494
Methylene Chloride	U		0.00708	0.0267	1	03/28/2019 00:28	WG1256494
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	03/28/2019 00:28	WG1256494

JC 4/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000315	0.00107	1	03/28/2019 00:28	WG1256494
Naphthalene	U		0.00333	0.0133	1	03/28/2019 00:28	WG1256494
n-Propylbenzene	U		0.00126	0.00534	1	03/28/2019 00:28	WG1256494
Styrene	U		0.00291	0.0133	1	03/28/2019 00:28	WG1256494
1,1,1,2-Tetrachloroethane	U		0.000534	0.00267	1	03/28/2019 00:28	WG1256494
1,1,2,2-Tetrachloroethane	U		0.000416	0.00267	1	03/28/2019 00:28	WG1256494
1,1,2-Trichlorotrifluoroethane	U		0.000720	0.00267	1	03/28/2019 00:28	WG1256494
Tetrachloroethene	0.00300		0.000747	0.00267	1	03/28/2019 00:28	WG1256494
Toluene	U		0.00133	0.00534	1	03/28/2019 00:28	WG1256494
1,2,3-Trichlorobenzene	U		0.000667	0.00267	1	03/28/2019 00:28	WG1256494
1,2,4-Trichlorobenzene	U		0.00514	0.0133	1	03/28/2019 00:28	WG1256494
1,1,1-Trichloroethane	U		0.000293	0.00267	1	03/28/2019 00:28	WG1256494
1,1,2-Trichloroethane	U		0.000942	0.00267	1	03/28/2019 00:28	WG1256494
Trichloroethene	0.000505 J	J	0.000427	0.00107	1	03/28/2019 00:28	WG1256494
Trichlorofluoromethane	U		0.000534	0.00267	1	03/28/2019 00:28	WG1256494
1,2,3-Trichloropropane	U		0.00544	0.0133	1	03/28/2019 00:28	WG1256494
1,2,4-Trimethylbenzene	U		0.00124	0.00534	1	03/28/2019 00:28	WG1256494
1,2,3-Trimethylbenzene	U		0.00123	0.00534	1	03/28/2019 00:28	WG1256494
1,3,5-Trimethylbenzene	U		0.00115	0.00534	1	03/28/2019 00:28	WG1256494
Vinyl acetate	U		0.00376	0.0133	1	03/28/2019 00:28	WG1256494
Vinyl chloride	U		0.000729	0.00267	1	03/28/2019 00:28	WG1256494
Xylenes, Total	U		0.00510	0.00694	1	03/28/2019 00:28	WG1256494
(S) Toluene-d8	*102*			*75.0-131*		*03/28/2019 00:28*	WG1256494
(S) Toluene-d8	*95.7*			*75.0-131*		*03/28/2019 19:14*	WG1257337
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*		*03/28/2019 00:28*	WG1256494
(S) 4-Bromofluorobenzene	*78.5*			*67.0-138*		*03/28/2019 19:14*	WG1257337
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*		*03/28/2019 00:28*	WG1256494
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/28/2019 19:14*	WG1257337

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B13D13-50
Collected date/time: 03/21/19 14:47

SAMPLE RESULTS - 05

L1081910

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.0		1	03/28/2019 13:09	WG1256858

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0275	1	03/28/2019 16:28	WG1256911
Acrylonitrile	U		0.00209	0.0137	1	03/27/2019 17:36	WG1256234
Benzene	U	UJ J3	0.000439	0.00110	1	03/27/2019 17:36	WG1256234
Bromobenzene	U		0.00115	0.0137	1	03/27/2019 17:36	WG1256234
Bromodichloromethane	U	UJ J3	0.000866	0.00275	1	03/27/2019 17:36	WG1256234
Bromochloromethane	U	UJ J3 J4	0.00124	0.00549	1	03/27/2019 17:36	WG1256234
Bromoform	U		0.00657	0.0275	1	03/27/2019 17:36	WG1256234
Bromomethane	U	UJ J3	0.00406	0.0137	1	03/27/2019 17:36	WG1256234
n-Butylbenzene	U	J3	0.00422	0.0137	1	03/27/2019 17:36	WG1256234
sec-Butylbenzene	U	J3	0.00278	0.0137	1	03/27/2019 17:36	WG1256234
tert-Butylbenzene	U	UJ J3	0.00170	0.00549	1	03/27/2019 17:36	WG1256234
Carbon disulfide	U	R J3 J6	0.00446	0.0137	1	03/27/2019 17:36	WG1256234
Carbon tetrachloride	U	UJ J3	0.00119	0.00549	1	03/27/2019 17:36	WG1256234
Chlorobenzene	U	UJ J3	0.000629	0.00275	1	03/27/2019 17:36	WG1256234
Chlorodibromomethane	U		0.000494	0.00275	1	03/27/2019 17:36	WG1256234
Chloroethane	U	UJ J3	0.00119	0.00549	1	03/27/2019 17:36	WG1256234
Chloroform	U	J3	0.000456	0.00275	1	03/27/2019 17:36	WG1256234
Chloromethane	U	J3	0.00153	0.0137	1	03/27/2019 17:36	WG1256234
2-Chlorotoluene	U	J3	0.00101	0.00275	1	03/27/2019 17:36	WG1256234
4-Chlorotoluene	U	UJ J3	0.00124	0.00549	1	03/27/2019 17:36	WG1256234
1,2-Dibromo-3-Chloropropane	U		0.00560	0.0275	1	03/27/2019 17:36	WG1256234
1,2-Dibromoethane	U		0.000577	0.00275	1	03/27/2019 17:36	WG1256234
Dibromomethane	U		0.00110	0.00549	1	03/27/2019 17:36	WG1256234
1,2-Dichlorobenzene	U		0.00159	0.00549	1	03/27/2019 17:36	WG1256234
1,3-Dichlorobenzene	U	UJ J3	0.00187	0.00549	1	03/27/2019 17:36	WG1256234
1,4-Dichlorobenzene	U		0.00216	0.00549	1	03/27/2019 17:36	WG1256234
Dichlorodifluoromethane	U	UJ J3	0.000899	0.00275	1	03/27/2019 17:36	WG1256234
1,1-Dichloroethane	U	UJ J3	0.000632	0.00275	1	03/27/2019 17:36	WG1256234
1,2-Dichloroethane	U		0.000522	0.00275	1	03/27/2019 17:36	WG1256234
1,1-Dichloroethene	U	UJ J3	0.000549	0.00275	1	03/27/2019 17:36	WG1256234
cis-1,2-Dichloroethene	U	J3	0.000758	0.00275	1	03/27/2019 17:36	WG1256234
trans-1,2-Dichloroethene	U	J3	0.00157	0.00549	1	03/27/2019 17:36	WG1256234
1,2-Dichloropropane	U	J3	0.00140	0.00549	1	03/27/2019 17:36	WG1256234
1,1-Dichloropropene	U	UJ J3	0.000769	0.00275	1	03/27/2019 17:36	WG1256234
1,3-Dichloropropane	U		0.00192	0.00549	1	03/27/2019 17:36	WG1256234
cis-1,3-Dichloropropene	U	UJ J3	0.000745	0.00275	1	03/27/2019 17:36	WG1256234
trans-1,3-Dichloropropene	U	UJ J3	0.00168	0.00549	1	03/27/2019 17:36	WG1256234
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	03/27/2019 17:36	WG1256234
2,2-Dichloropropane	U	UJ J3	0.000871	0.00275	1	03/27/2019 17:36	WG1256234
Di-isopropyl ether	U	J3	0.000384	0.00110	1	03/27/2019 17:36	WG1256234
Ethylbenzene	U	J3	0.000582	0.00275	1	03/27/2019 17:36	WG1256234
Hexachloro-1,3-butadiene	U	UJ J3	0.0140	0.0275	1	03/27/2019 17:36	WG1256234
2-Hexanone	U		0.0110	0.0275	1	03/27/2019 17:36	WG1256234
n-Hexane	U	R J3 J6	0.00116	0.00549	1	03/27/2019 17:36	WG1256234
Iodomethane	U	UJ J3	0.00665	0.0137	1	03/27/2019 17:36	WG1256234
Isopropylbenzene	U	J3	0.000948	0.00275	1	03/27/2019 17:36	WG1256234
p-Isopropyltoluene	U	UJ J3	0.00256	0.00549	1	03/27/2019 17:36	WG1256234
2-Butanone (MEK)	U		0.0137	0.0275	1	03/27/2019 17:36	WG1256234
Methylene Chloride	U		0.00729	0.0275	1	03/27/2019 17:36	WG1256234
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	03/27/2019 17:36	WG1256234

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	03/27/2019 17:36	WG1256234
Naphthalene	U		0.00343	0.0137	1	03/27/2019 17:36	WG1256234
n-Propylbenzene	U	UJ J3	0.00130	0.00549	1	03/27/2019 17:36	WG1256234
Styrene	U	J3	0.00300	0.0137	1	03/27/2019 17:36	WG1256234
1,1,1,2-Tetrachloroethane	U	UJ J3	0.000549	0.00275	1	03/27/2019 17:36	WG1256234
1,1,2,2-Tetrachloroethane	U		0.000428	0.00275	1	03/27/2019 17:36	WG1256234
1,1,2-Trichlorotrifluoroethane	U	UJ J3	0.000741	0.00275	1	03/27/2019 17:36	WG1256234
Tetrachloroethene	0.00784	J3	0.000769	0.00275	1	03/27/2019 17:36	WG1256234
Toluene	U	UJ J3	0.00137	0.00549	1	03/27/2019 17:36	WG1256234
1,2,3-Trichlorobenzene	U		0.000687	0.00275	1	03/27/2019 17:36	WG1256234
1,2,4-Trichlorobenzene	U		0.00529	0.0137	1	03/27/2019 17:36	WG1256234
1,1,1-Trichloroethane	U	UJ J3	0.000302	0.00275	1	03/27/2019 17:36	WG1256234
1,1,2-Trichloroethane	U		0.000970	0.00275	1	03/27/2019 17:36	WG1256234
Trichloroethene	0.00166	UJ J3	0.000439	0.00110	1	03/27/2019 17:36	WG1256234
Trichlorofluoromethane	U	R J3 J6	0.000549	0.00275	1	03/27/2019 17:36	WG1256234
1,2,3-Trichloropropane	U		0.00560	0.0137	1	03/27/2019 17:36	WG1256234
1,2,4-Trimethylbenzene	U	UJ J3	0.00127	0.00549	1	03/27/2019 17:36	WG1256234
1,2,3-Trimethylbenzene	U	J3	0.00126	0.00549	1	03/27/2019 17:36	WG1256234
1,3,5-Trimethylbenzene	U	UJ J3	0.00119	0.00549	1	03/27/2019 17:36	WG1256234
Vinyl acetate	U		0.00387	0.0137	1	03/27/2019 17:36	WG1256234
Vinyl chloride	U	UJ J3	0.000750	0.00275	1	03/27/2019 17:36	WG1256234
Xylenes, Total	U	UJ J3	0.00525	0.00714	1	03/27/2019 17:36	WG1256234
(S) Toluene-d8	*106*			*75.0-131*		*03/27/2019 17:36*	WG1256234
(S) Toluene-d8	*94.3*			*75.0-131*		*03/28/2019 16:28*	WG1256911
(S) 4-Bromofluorobenzene	*96.9*			*67.0-138*		*03/27/2019 17:36*	WG1256234
(S) 4-Bromofluorobenzene	*77.2*			*67.0-138*		*03/28/2019 16:28*	WG1256911
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/27/2019 17:36*	WG1256234
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/28/2019 16:28*	WG1256911

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Acetone	1.42	J	1.05	25.0	1	03/28/2019 19:00	WG1257024	
Acrylonitrile	U		0.873	5.00	1	03/28/2019 19:00	WG1257024	
Benzene	U		0.0896	0.500	1	03/28/2019 19:00	WG1257024	
Bromobenzene	U		0.133	0.500	1	03/28/2019 19:00	WG1257024	
Bromodichloromethane	U		0.0800	0.500	1	03/28/2019 19:00	WG1257024	
Bromochloromethane	U		0.145	0.500	1	03/28/2019 19:00	WG1257024	
Bromoform	U		0.186	0.500	1	03/28/2019 19:00	WG1257024	
Bromomethane	U		0.157	2.50	1	03/28/2019 19:00	WG1257024	
n-Butylbenzene	U		0.143	0.500	1	03/28/2019 19:00	WG1257024	
sec-Butylbenzene	U		0.134	0.500	1	03/28/2019 19:00	WG1257024	
tert-Butylbenzene	U		0.183	0.500	1	03/28/2019 19:00	WG1257024	
Carbon disulfide	U		0.101	0.500	1	03/28/2019 19:00	WG1257024	
Carbon tetrachloride	U		0.159	0.500	1	03/28/2019 19:00	WG1257024	
Chlorobenzene	U		0.140	0.500	1	03/28/2019 19:00	WG1257024	
Chlorodibromomethane	U		0.128	0.500	1	03/28/2019 19:00	WG1257024	
Chloroethane	U		0.141	2.50	1	03/28/2019 19:00	WG1257024	
Chloroform	U		0.0860	0.500	1	03/28/2019 19:00	WG1257024	
Chloromethane	U		0.153	1.25	1	03/28/2019 19:00	WG1257024	
2-Chlorotoluene	U		0.111	0.500	1	03/28/2019 19:00	WG1257024	
4-Chlorotoluene	U		0.0972	0.500	1	03/28/2019 19:00	WG1257024	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/28/2019 19:00	WG1257024	
1,2-Dibromoethane	U		0.193	0.500	1	03/28/2019 19:00	WG1257024	
Dibromomethane	U		0.117	0.500	1	03/28/2019 19:00	WG1257024	
1,2-Dichlorobenzene	U		0.101	0.500	1	03/28/2019 19:00	WG1257024	
1,3-Dichlorobenzene	U		0.130	0.500	1	03/28/2019 19:00	WG1257024	
1,4-Dichlorobenzene	U		0.121	0.500	1	03/28/2019 19:00	WG1257024	
Dichlorodifluoromethane	U		0.127	2.50	1	03/28/2019 19:00	WG1257024	
1,1-Dichloroethane	U		0.114	0.500	1	03/28/2019 19:00	WG1257024	
1,2-Dichloroethane	U		0.108	0.500	1	03/28/2019 19:00	WG1257024	
1,1-Dichloroethene	U		0.188	0.500	1	03/28/2019 19:00	WG1257024	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	03/28/2019 19:00	WG1257024	
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/28/2019 19:00	WG1257024	
1,2-Dichloropropane	U		0.190	0.500	1	03/28/2019 19:00	WG1257024	
1,1-Dichloropropene	U		0.128	0.500	1	03/28/2019 19:00	WG1257024	
1,3-Dichloropropane	U		0.147	1.00	1	03/28/2019 19:00	WG1257024	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/28/2019 19:00	WG1257024	
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/28/2019 19:00	WG1257024	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/28/2019 19:00	WG1257024	
2,2-Dichloropropane	U		0.0929	0.500	1	03/28/2019 19:00	WG1257024	
Di-isopropyl ether	U		0.0924	0.500	1	03/28/2019 19:00	WG1257024	
Ethylbenzene	U		0.158	0.500	1	03/28/2019 19:00	WG1257024	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/28/2019 19:00	WG1257024	
2-Hexanone	U		0.757	5.00	1	03/28/2019 19:00	WG1257024	
n-Hexane	U		0.305	5.00	1	03/28/2019 19:00	WG1257024	
Iodomethane	U		0.377	10.0	1	03/28/2019 19:00	WG1257024	
Isopropylbenzene	U		0.126	0.500	1	03/28/2019 19:00	WG1257024	JC 4/22/19
p-Isopropyltoluene	U		0.138	0.500	1	03/28/2019 19:00	WG1257024	
2-Butanone (MEK)	U		1.28	5.00	1	03/28/2019 19:00	WG1257024	
Methylene Chloride	U		1.07	2.50	1	03/28/2019 19:00	WG1257024	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/28/2019 19:00	WG1257024	
Methyl tert-butyl ether	U		0.102	0.500	1	03/28/2019 19:00	WG1257024	
Naphthalene	U		0.174	2.50	1	03/28/2019 19:00	WG1257024	
n-Propylbenzene	U		0.162	0.500	1	03/28/2019 19:00	WG1257024	
Styrene	U		0.117	0.500	1	03/28/2019 19:00	WG1257024	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/28/2019 19:00	WG1257024	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/28/2019 19:00	WG1257024	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/28/2019 19:00	WG1257024
Tetrachloroethene	U		0.199	0.500	1	03/28/2019 19:00	WG1257024
Toluene	U		0.412	0.500	1	03/28/2019 19:00	WG1257024
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/28/2019 19:00	WG1257024
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/28/2019 19:00	WG1257024
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/28/2019 19:00	WG1257024
1,1,2-Trichloroethane	U		0.186	0.500	1	03/28/2019 19:00	WG1257024
Trichloroethene	U		0.153	0.500	1	03/28/2019 19:00	WG1257024
Trichlorofluoromethane	U		0.130	2.50	1	03/28/2019 19:00	WG1257024
1,2,3-Trichloropropane	U		0.247	2.50	1	03/28/2019 19:00	WG1257024
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/28/2019 19:00	WG1257024
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/28/2019 19:00	WG1257024
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/28/2019 19:00	WG1257024
Vinyl acetate	U		0.645	5.00	1	03/28/2019 19:00	WG1257024
Vinyl chloride	U		0.118	0.500	1	03/28/2019 19:00	WG1257024
Xylenes, Total	U		0.316	1.50	1	03/28/2019 19:00	WG1257024
(S) Toluene-d8	*109*			*80.0-120*		*03/28/2019 19:00*	WG1257024
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/28/2019 19:00*	WG1257024
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*03/28/2019 19:00*	WG1257024

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	03/29/2019 10:27	WG1257599

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0160	0.0292	1	04/01/2019 12:20	WG1258804
Acrylonitrile	U UJ	J0	0.00222	0.0146	1	03/30/2019 03:57	WG1258093
Benzene	U		0.000467	0.00117	1	03/30/2019 03:57	WG1258093
Bromobenzene	U		0.00123	0.0146	1	03/30/2019 03:57	WG1258093
Bromodichloromethane	U		0.000919	0.00292	1	03/30/2019 03:57	WG1258093
Bromochloromethane	U UJ	J4	0.00132	0.00583	1	03/30/2019 03:57	WG1258093
Bromoform	U		0.00698	0.0292	1	03/30/2019 03:57	WG1258093
Bromomethane	U UJ	J0	0.00432	0.0146	1	03/30/2019 03:57	WG1258093
n-Butylbenzene	U		0.00448	0.0146	1	03/30/2019 03:57	WG1258093
sec-Butylbenzene	U		0.00295	0.0146	1	03/30/2019 03:57	WG1258093
tert-Butylbenzene	U		0.00181	0.00583	1	03/30/2019 03:57	WG1258093
Carbon disulfide	U		0.00474	0.0146	1	03/30/2019 03:57	WG1258093
Carbon tetrachloride	U		0.00126	0.00583	1	03/30/2019 03:57	WG1258093
Chlorobenzene	U		0.000669	0.00292	1	03/30/2019 03:57	WG1258093
Chlorodibromomethane	U		0.000525	0.00292	1	03/30/2019 03:57	WG1258093
Chloroethane	U UJ	J0	0.00126	0.00583	1	03/30/2019 03:57	WG1258093
Chloroform	U		0.000484	0.00292	1	03/30/2019 03:57	WG1258093
Chloromethane	U		0.00162	0.0146	1	03/30/2019 03:57	WG1258093
2-Chlorotoluene	U		0.00107	0.00292	1	03/30/2019 03:57	WG1258093
4-Chlorotoluene	U UJ	J0	0.00132	0.00583	1	03/30/2019 03:57	WG1258093
1,2-Dibromo-3-Chloropropane	U		0.00595	0.0292	1	03/30/2019 03:57	WG1258093
1,2-Dibromoethane	U		0.000613	0.00292	1	03/30/2019 03:57	WG1258093
Dibromomethane	U		0.00117	0.00583	1	03/30/2019 03:57	WG1258093
1,2-Dichlorobenzene	U		0.00169	0.00583	1	03/30/2019 03:57	WG1258093
1,3-Dichlorobenzene	U		0.00198	0.00583	1	03/30/2019 03:57	WG1258093
1,4-Dichlorobenzene	U UJ	J4	0.00230	0.00583	1	03/30/2019 03:57	WG1258093
Dichlorodifluoromethane	U		0.000954	0.00292	1	03/30/2019 03:57	WG1258093
1,1-Dichloroethane	U		0.000671	0.00292	1	03/30/2019 03:57	WG1258093
1,2-Dichloroethane	U		0.000554	0.00292	1	03/30/2019 03:57	WG1258093
1,1-Dichloroethene	U		0.000583	0.00292	1	03/30/2019 03:57	WG1258093
cis-1,2-Dichloroethene	U		0.000805	0.00292	1	03/30/2019 03:57	WG1258093
trans-1,2-Dichloroethene	U		0.00167	0.00583	1	03/30/2019 03:57	WG1258093
1,2-Dichloropropane	U		0.00148	0.00583	1	03/30/2019 03:57	WG1258093
1,1-Dichloropropene	U		0.000817	0.00292	1	03/30/2019 03:57	WG1258093
1,3-Dichloropropane	U		0.00204	0.00583	1	03/30/2019 03:57	WG1258093
cis-1,3-Dichloropropene	U		0.000791	0.00292	1	03/30/2019 03:57	WG1258093
trans-1,3-Dichloropropene	U		0.00179	0.00583	1	03/30/2019 03:57	WG1258093
trans-1,4-Dichloro-2-butene	U		0.00163	0.00583	1	03/30/2019 03:57	WG1258093
2,2-Dichloropropane	U		0.000925	0.00292	1	03/30/2019 03:57	WG1258093
Di-isopropyl ether	U UJ	J0	0.000408	0.00117	1	03/30/2019 03:57	WG1258093
Ethylbenzene	U		0.000618	0.00292	1	03/30/2019 03:57	WG1258093
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	03/30/2019 03:57	WG1258093
2-Hexanone	U		0.0117	0.0292	1	03/30/2019 03:57	WG1258093
n-Hexane	0.00737		0.00124	0.00583	1	03/30/2019 03:57	WG1258093
Iodomethane	U		0.00706	0.0146	1	03/30/2019 03:57	WG1258093
Isopropylbenzene	U		0.00101	0.00292	1	03/30/2019 03:57	WG1258093
p-Isopropyltoluene	U		0.00272	0.00583	1	03/30/2019 03:57	WG1258093
2-Butanone (MEK)	U		0.0146	0.0292	1	03/30/2019 03:57	WG1258093
Methylene Chloride	U		0.00775	0.0292	1	03/30/2019 03:57	WG1258093
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	03/30/2019 03:57	WG1258093

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	03/30/2019 03:57	WG1258093
Naphthalene	U		0.00364	0.0146	1	03/30/2019 03:57	WG1258093
n-Propylbenzene	U		0.00138	0.00583	1	03/30/2019 03:57	WG1258093
Styrene	U		0.00319	0.0146	1	03/30/2019 03:57	WG1258093
1,1,1,2-Tetrachloroethane	U		0.000583	0.00292	1	03/30/2019 03:57	WG1258093
1,1,2,2-Tetrachloroethane	U		0.000455	0.00292	1	03/30/2019 03:57	WG1258093
1,1,2-Trichlorotrifluoroethane	U		0.000788	0.00292	1	03/30/2019 03:57	WG1258093
Tetrachloroethene	0.00519		0.000817	0.00292	1	03/30/2019 03:57	WG1258093
Toluene	U		0.00146	0.00583	1	03/30/2019 03:57	WG1258093
1,2,3-Trichlorobenzene	U		0.000729	0.00292	1	03/30/2019 03:57	WG1258093
1,2,4-Trichlorobenzene	U		0.00562	0.0146	1	03/30/2019 03:57	WG1258093
1,1,1-Trichloroethane	U		0.000321	0.00292	1	03/30/2019 03:57	WG1258093
1,1,2-Trichloroethane	U		0.00103	0.00292	1	03/30/2019 03:57	WG1258093
Trichloroethene	U	UJ J4	0.000467	0.00117	1	03/30/2019 03:57	WG1258093
Trichlorofluoromethane	U		0.000583	0.00292	1	03/30/2019 03:57	WG1258093
1,2,3-Trichloropropane	U		0.00595	0.0146	1	03/30/2019 03:57	WG1258093
1,2,4-Trimethylbenzene	U		0.00135	0.00583	1	03/30/2019 03:57	WG1258093
1,2,3-Trimethylbenzene	U		0.00134	0.00583	1	03/30/2019 03:57	WG1258093
1,3,5-Trimethylbenzene	U		0.00126	0.00583	1	03/30/2019 03:57	WG1258093
Vinyl acetate	U	UJ J0	0.00411	0.0146	1	03/30/2019 03:57	WG1258093
Vinyl chloride	U		0.000797	0.00292	1	03/30/2019 03:57	WG1258093
Xylenes, Total	U	~~J4~~	0.00558	0.00758	1	03/30/2019 03:57	WG1258093
(S) Toluene-d8	*105*			*75.0-131*		*03/30/2019 03:57*	WG1258093
(S) Toluene-d8	*92.6*			*75.0-131*		*04/01/2019 12:20*	WG1258804
(S) 4-Bromofluorobenzene	*96.5*			*67.0-138*		*03/30/2019 03:57*	WG1258093
(S) 4-Bromofluorobenzene	*79.3*			*67.0-138*		*04/01/2019 12:20*	WG1258804
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/30/2019 03:57*	WG1258093
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*04/01/2019 12:20*	WG1258804

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.9		1	03/29/2019 10:27	WG1257599

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0152	0.0278	1	04/01/2019 12:40	WG1258804
Acrylonitrile	U	UJ J0	0.00211	0.0139	1	03/30/2019 04:16	WG1258093
Benzene	0.000467	J J	0.000445	0.00111	1	03/30/2019 04:16	WG1258093
Bromobenzene	U		0.00117	0.0139	1	03/30/2019 04:16	WG1258093
Bromodichloromethane	U		0.000876	0.00278	1	03/30/2019 04:16	WG1258093
Bromochloromethane	U	UJ J4	0.00126	0.00556	1	03/30/2019 04:16	WG1258093
Bromoform	U		0.00665	0.0278	1	03/30/2019 04:16	WG1258093
Bromomethane	U	UJ J0	0.00411	0.0139	1	03/30/2019 04:16	WG1258093
n-Butylbenzene	U		0.00427	0.0139	1	03/30/2019 04:16	WG1258093
sec-Butylbenzene	U		0.00281	0.0139	1	03/30/2019 04:16	WG1258093
tert-Butylbenzene	U		0.00172	0.00556	1	03/30/2019 04:16	WG1258093
Carbon disulfide	U		0.00451	0.0139	1	03/30/2019 04:16	WG1258093
Carbon tetrachloride	U		0.00120	0.00556	1	03/30/2019 04:16	WG1258093
Chlorobenzene	U		0.000637	0.00278	1	03/30/2019 04:16	WG1258093
Chlorodibromomethane	U		0.000500	0.00278	1	03/30/2019 04:16	WG1258093
Chloroethane	U	UJ J0	0.00120	0.00556	1	03/30/2019 04:16	WG1258093
Chloroform	U		0.000461	0.00278	1	03/30/2019 04:16	WG1258093
Chloromethane	U		0.00155	0.0139	1	03/30/2019 04:16	WG1258093
2-Chlorotoluene	U		0.00102	0.00278	1	03/30/2019 04:16	WG1258093
4-Chlorotoluene	U	UJ J0	0.00126	0.00556	1	03/30/2019 04:16	WG1258093
1,2-Dibromo-3-Chloropropane	U		0.00567	0.0278	1	03/30/2019 04:16	WG1258093
1,2-Dibromoethane	U		0.000584	0.00278	1	03/30/2019 04:16	WG1258093
Dibromomethane	U		0.00111	0.00556	1	03/30/2019 04:16	WG1258093
1,2-Dichlorobenzene	U		0.00161	0.00556	1	03/30/2019 04:16	WG1258093
1,3-Dichlorobenzene	U		0.00189	0.00556	1	03/30/2019 04:16	WG1258093
1,4-Dichlorobenzene	U	UJ J4	0.00219	0.00556	1	03/30/2019 04:16	WG1258093
Dichlorodifluoromethane	U		0.000910	0.00278	1	03/30/2019 04:16	WG1258093
1,1-Dichloroethane	U		0.000639	0.00278	1	03/30/2019 04:16	WG1258093
1,2-Dichloroethane	U		0.000528	0.00278	1	03/30/2019 04:16	WG1258093
1,1-Dichloroethene	U		0.000556	0.00278	1	03/30/2019 04:16	WG1258093
cis-1,2-Dichloroethene	0.0319		0.000767	0.00278	1	03/30/2019 04:16	WG1258093
trans-1,2-Dichloroethene	U		0.00159	0.00556	1	03/30/2019 04:16	WG1258093
1,2-Dichloropropane	U		0.00141	0.00556	1	03/30/2019 04:16	WG1258093
1,1-Dichloropropene	U		0.000778	0.00278	1	03/30/2019 04:16	WG1258093
1,3-Dichloropropane	U		0.00195	0.00556	1	03/30/2019 04:16	WG1258093
cis-1,3-Dichloropropene	U		0.000754	0.00278	1	03/30/2019 04:16	WG1258093
trans-1,3-Dichloropropene	U		0.00170	0.00556	1	03/30/2019 04:16	WG1258093
trans-1,4-Dichloro-2-butene	U		0.00156	0.00556	1	03/30/2019 04:16	WG1258093
2,2-Dichloropropane	U		0.000882	0.00278	1	03/30/2019 04:16	WG1258093
Di-isopropyl ether	U	UJ J0	0.000389	0.00111	1	03/30/2019 04:16	WG1258093
Ethylbenzene	U		0.000589	0.00278	1	03/30/2019 04:16	WG1258093
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	03/30/2019 04:16	WG1258093
2-Hexanone	U		0.0111	0.0278	1	03/30/2019 04:16	WG1258093
n-Hexane	0.00647		0.00118	0.00556	1	03/30/2019 04:16	WG1258093
Iodomethane	U		0.00673	0.0139	1	03/30/2019 04:16	WG1258093
Isopropylbenzene	U		0.000960	0.00278	1	03/30/2019 04:16	WG1258093
p-Isopropyltoluene	U		0.00259	0.00556	1	03/30/2019 04:16	WG1258093
2-Butanone (MEK)	0.116		0.0139	0.0278	1	03/30/2019 04:16	WG1258093
Methylene Chloride	U		0.00738	0.0278	1	03/30/2019 04:16	WG1258093
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	03/30/2019 04:16	WG1258093

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B18D18-20

Collected date/time: 03/22/19 13:35

SAMPLE RESULTS - 02

L1082393

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000328	0.00111	1	03/30/2019 04:16	WG1258093
Naphthalene	U		0.00347	0.0139	1	03/30/2019 04:16	WG1258093
n-Propylbenzene	U		0.00131	0.00556	1	03/30/2019 04:16	WG1258093
Styrene	U		0.00304	0.0139	1	03/30/2019 04:16	WG1258093
1,1,1,2-Tetrachloroethane	U		0.000556	0.00278	1	03/30/2019 04:16	WG1258093
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	03/30/2019 04:16	WG1258093
1,1,2-Trichlorotrifluoroethane	U		0.000751	0.00278	1	03/30/2019 04:16	WG1258093
Tetrachloroethene	0.00911		0.000778	0.00278	1	03/30/2019 04:16	WG1258093
Toluene	U		0.00139	0.00556	1	03/30/2019 04:16	WG1258093
1,2,3-Trichlorobenzene	U		0.000695	0.00278	1	03/30/2019 04:16	WG1258093
1,2,4-Trichlorobenzene	U		0.00536	0.0139	1	03/30/2019 04:16	WG1258093
1,1,1-Trichloroethane	U		0.000306	0.00278	1	03/30/2019 04:16	WG1258093
1,1,2-Trichloroethane	U		0.000982	0.00278	1	03/30/2019 04:16	WG1258093
Trichloroethene	U	UJ J4	0.000445	0.00111	1	03/30/2019 04:16	WG1258093
Trichlorofluoromethane	U		0.000556	0.00278	1	03/30/2019 04:16	WG1258093
1,2,3-Trichloropropane	U		0.00567	0.0139	1	03/30/2019 04:16	WG1258093
1,2,4-Trimethylbenzene	U		0.00129	0.00556	1	03/30/2019 04:16	WG1258093
1,2,3-Trimethylbenzene	U		0.00128	0.00556	1	03/30/2019 04:16	WG1258093
1,3,5-Trimethylbenzene	U		0.00120	0.00556	1	03/30/2019 04:16	WG1258093
Vinyl acetate	U	UJ J0	0.00391	0.0139	1	03/30/2019 04:16	WG1258093
Vinyl chloride	U		0.000760	0.00278	1	03/30/2019 04:16	WG1258093
Xylenes, Total	U	~~J4~~	0.00532	0.00723	1	03/30/2019 04:16	WG1258093
(S) Toluene-d8	*104*			*75.0-131*		*03/30/2019 04:16*	WG1258093
(S) Toluene-d8	*93.1*			*75.0-131*		*04/01/2019 12:40*	WG1258804
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*03/30/2019 04:16*	WG1258093
(S) 4-Bromofluorobenzene	*77.8*			*67.0-138*		*04/01/2019 12:40*	WG1258804
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/30/2019 04:16*	WG1258093
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*04/01/2019 12:40*	WG1258804

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.8		1	03/29/2019 10:27	WG1257599

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0492		0.0151	0.0275	1	03/31/2019 23:56	WG1258511
Acrylonitrile	U	UJ J0	0.00209	0.0138	1	03/30/2019 04:35	WG1258093
Benzene	0.000548	J J	0.000440	0.00110	1	03/30/2019 04:35	WG1258093
Bromobenzene	U		0.00116	0.0138	1	03/30/2019 04:35	WG1258093
Bromodichloromethane	U		0.000868	0.00275	1	03/30/2019 04:35	WG1258093
Bromochloromethane	U	UJ J4	0.00124	0.00551	1	03/30/2019 04:35	WG1258093
Bromoform	U		0.00659	0.0275	1	03/30/2019 04:35	WG1258093
Bromomethane	U	UJ J0	0.00407	0.0138	1	03/30/2019 04:35	WG1258093
n-Butylbenzene	U		0.00423	0.0138	1	03/30/2019 04:35	WG1258093
sec-Butylbenzene	U		0.00279	0.0138	1	03/30/2019 04:35	WG1258093
tert-Butylbenzene	U		0.00171	0.00551	1	03/30/2019 04:35	WG1258093
Carbon disulfide	U		0.00447	0.0138	1	03/30/2019 04:35	WG1258093
Carbon tetrachloride	U		0.00119	0.00551	1	03/30/2019 04:35	WG1258093
Chlorobenzene	U		0.000631	0.00275	1	03/30/2019 04:35	WG1258093
Chlorodibromomethane	U		0.000496	0.00275	1	03/30/2019 04:35	WG1258093
Chloroethane	U	UJ J0	0.00119	0.00551	1	03/30/2019 04:35	WG1258093
Chloroform	U		0.000457	0.00275	1	03/30/2019 04:35	WG1258093
Chloromethane	U		0.00153	0.0138	1	03/30/2019 04:35	WG1258093
2-Chlorotoluene	U		0.00101	0.00275	1	03/30/2019 04:35	WG1258093
4-Chlorotoluene	U	UJ J0	0.00124	0.00551	1	03/30/2019 04:35	WG1258093
1,2-Dibromo-3-Chloropropane	U		0.00562	0.0275	1	03/30/2019 04:35	WG1258093
1,2-Dibromoethane	U		0.000578	0.00275	1	03/30/2019 04:35	WG1258093
Dibromomethane	U		0.00110	0.00551	1	03/30/2019 04:35	WG1258093
1,2-Dichlorobenzene	U		0.00160	0.00551	1	03/30/2019 04:35	WG1258093
1,3-Dichlorobenzene	U		0.00187	0.00551	1	03/30/2019 04:35	WG1258093
1,4-Dichlorobenzene	U	UJ J4	0.00217	0.00551	1	03/30/2019 04:35	WG1258093
Dichlorodifluoromethane	U		0.000901	0.00275	1	03/30/2019 04:35	WG1258093
1,1-Dichloroethane	U		0.000633	0.00275	1	03/30/2019 04:35	WG1258093
1,2-Dichloroethane	U		0.000523	0.00275	1	03/30/2019 04:35	WG1258093
1,1-Dichloroethene	U		0.000551	0.00275	1	03/30/2019 04:35	WG1258093
cis-1,2-Dichloroethene	0.712		0.000760	0.00275	1	03/30/2019 04:35	WG1258093
trans-1,2-Dichloroethene	0.00168	J J	0.00157	0.00551	1	03/30/2019 04:35	WG1258093
1,2-Dichloropropane	U		0.00140	0.00551	1	03/30/2019 04:35	WG1258093
1,1-Dichloropropene	U		0.000771	0.00275	1	03/30/2019 04:35	WG1258093
1,3-Dichloropropane	U		0.00193	0.00551	1	03/30/2019 04:35	WG1258093
cis-1,3-Dichloropropene	U		0.000747	0.00275	1	03/30/2019 04:35	WG1258093
trans-1,3-Dichloropropene	U		0.00168	0.00551	1	03/30/2019 04:35	WG1258093
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	03/30/2019 04:35	WG1258093
2,2-Dichloropropane	U		0.000873	0.00275	1	03/30/2019 04:35	WG1258093
Di-isopropyl ether	U	UJ J0	0.000385	0.00110	1	03/30/2019 04:35	WG1258093
Ethylbenzene	U		0.000584	0.00275	1	03/30/2019 04:35	WG1258093
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	03/30/2019 04:35	WG1258093
2-Hexanone	U		0.0110	0.0275	1	03/30/2019 04:35	WG1258093
n-Hexane	0.0142		0.00117	0.00551	1	03/30/2019 04:35	WG1258093
Iodomethane	U		0.00666	0.0138	1	03/30/2019 04:35	WG1258093
Isopropylbenzene	U		0.000950	0.00275	1	03/30/2019 04:35	WG1258093
p-Isopropyltoluene	U		0.00257	0.00551	1	03/30/2019 04:35	WG1258093
2-Butanone (MEK)	U		0.0138	0.0275	1	03/30/2019 04:35	WG1258093
Methylene Chloride	U		0.00731	0.0275	1	03/30/2019 04:35	WG1258093
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	03/30/2019 04:35	WG1258093

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	03/30/2019 04:35	WG1258093
Naphthalene	U		0.00344	0.0138	1	03/30/2019 04:35	WG1258093
n-Propylbenzene	U		0.00130	0.00551	1	03/30/2019 04:35	WG1258093
Styrene	U		0.00301	0.0138	1	03/30/2019 04:35	WG1258093
1,1,1,2-Tetrachloroethane	U		0.000551	0.00275	1	03/30/2019 04:35	WG1258093
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	03/30/2019 04:35	WG1258093
1,1,2-Trichlorotrifluoroethane	U		0.000743	0.00275	1	03/30/2019 04:35	WG1258093
Tetrachloroethene	0.253		0.000771	0.00275	1	03/30/2019 04:35	WG1258093
Toluene	0.00233	J J	0.00138	0.00551	1	03/30/2019 04:35	WG1258093
1,2,3-Trichlorobenzene	U		0.000688	0.00275	1	03/30/2019 04:35	WG1258093
1,2,4-Trichlorobenzene	U		0.00531	0.0138	1	03/30/2019 04:35	WG1258093
1,1,1-Trichloroethane	U		0.000303	0.00275	1	03/30/2019 04:35	WG1258093
1,1,2-Trichloroethane	U		0.000972	0.00275	1	03/30/2019 04:35	WG1258093
Trichloroethene	0.00663	J J4	0.000440	0.00110	1	03/30/2019 04:35	WG1258093
Trichlorofluoromethane	U		0.000551	0.00275	1	03/30/2019 04:35	WG1258093
1,2,3-Trichloropropane	U		0.00562	0.0138	1	03/30/2019 04:35	WG1258093
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	03/30/2019 04:35	WG1258093
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	03/30/2019 04:35	WG1258093
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	03/30/2019 04:35	WG1258093
Vinyl acetate	U	UJ J0	0.00388	0.0138	1	03/30/2019 04:35	WG1258093
Vinyl chloride	U		0.000752	0.00275	1	03/30/2019 04:35	WG1258093
Xylenes, Total	U	~~J4~~	0.00526	0.00716	1	03/30/2019 04:35	WG1258093
(S) Toluene-d8	*106*			*75.0-131*		*03/30/2019 04:35*	WG1258093
(S) Toluene-d8	*92.1*			*75.0-131*		*03/31/2019 23:56*	WG1258511
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*03/30/2019 04:35*	WG1258093
(S) 4-Bromofluorobenzene	*80.5*			*67.0-138*		*03/31/2019 23:56*	WG1258511
(S) 1,2-Dichloroethane-d4	*98.1*			*70.0-130*		*03/30/2019 04:35*	WG1258093
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/31/2019 23:56*	WG1258511

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.6		1	03/29/2019 10:27	WG1257599

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0166	J	J	0.0151	0.0276	1	04/01/2019 00:15	WG1258511	
Acrylonitrile	U	UJ	J0	0.00210	0.0138	1	03/30/2019 04:55	WG1258093	
Benzene	U			0.000441	0.00110	1	03/30/2019 04:55	WG1258093	
Bromobenzene	U			0.00116	0.0138	1	03/30/2019 04:55	WG1258093	
Bromodichloromethane	U			0.000869	0.00276	1	03/30/2019 04:55	WG1258093	
Bromochloromethane	U	UJ	J4	0.00125	0.00552	1	03/30/2019 04:55	WG1258093	
Bromoform	U			0.00660	0.0276	1	03/30/2019 04:55	WG1258093	
Bromomethane	U	UJ	J0	0.00408	0.0138	1	03/30/2019 04:55	WG1258093	
n-Butylbenzene	U			0.00424	0.0138	1	03/30/2019 04:55	WG1258093	
sec-Butylbenzene	U			0.00279	0.0138	1	03/30/2019 04:55	WG1258093	
tert-Butylbenzene	U			0.00171	0.00552	1	03/30/2019 04:55	WG1258093	
Carbon disulfide	U			0.00448	0.0138	1	03/30/2019 04:55	WG1258093	
Carbon tetrachloride	U			0.00119	0.00552	1	03/30/2019 04:55	WG1258093	
Chlorobenzene	U			0.000632	0.00276	1	03/30/2019 04:55	WG1258093	
Chlorodibromomethane	U			0.000497	0.00276	1	03/30/2019 04:55	WG1258093	
Chloroethane	U	UJ	J0	0.00119	0.00552	1	03/30/2019 04:55	WG1258093	
Chloroform	U			0.000458	0.00276	1	03/30/2019 04:55	WG1258093	
Chloromethane	U			0.00153	0.0138	1	03/30/2019 04:55	WG1258093	
2-Chlorotoluene	U			0.00102	0.00276	1	03/30/2019 04:55	WG1258093	
4-Chlorotoluene	U	UJ	J0	0.00125	0.00552	1	03/30/2019 04:55	WG1258093	
1,2-Dibromo-3-Chloropropane	U			0.00563	0.0276	1	03/30/2019 04:55	WG1258093	
1,2-Dibromoethane	U			0.000579	0.00276	1	03/30/2019 04:55	WG1258093	
Dibromomethane	U			0.00110	0.00552	1	03/30/2019 04:55	WG1258093	
1,2-Dichlorobenzene	U			0.00160	0.00552	1	03/30/2019 04:55	WG1258093	
1,3-Dichlorobenzene	U			0.00188	0.00552	1	03/30/2019 04:55	WG1258093	
1,4-Dichlorobenzene	U	UJ	J4	0.00217	0.00552	1	03/30/2019 04:55	WG1258093	
Dichlorodifluoromethane	U			0.000903	0.00276	1	03/30/2019 04:55	WG1258093	
1,1-Dichloroethane	U			0.000634	0.00276	1	03/30/2019 04:55	WG1258093	
1,2-Dichloroethane	U			0.000524	0.00276	1	03/30/2019 04:55	WG1258093	
1,1-Dichloroethene	U			0.000552	0.00276	1	03/30/2019 04:55	WG1258093	
cis-1,2-Dichloroethene	0.0174			0.000761	0.00276	1	03/30/2019 04:55	WG1258093	
trans-1,2-Dichloroethene	U			0.00158	0.00552	1	03/30/2019 04:55	WG1258093	
1,2-Dichloropropane	U			0.00140	0.00552	1	03/30/2019 04:55	WG1258093	
1,1-Dichloropropene	U			0.000772	0.00276	1	03/30/2019 04:55	WG1258093	
1,3-Dichloropropane	U			0.00193	0.00552	1	03/30/2019 04:55	WG1258093	
cis-1,3-Dichloropropene	U			0.000748	0.00276	1	03/30/2019 04:55	WG1258093	
trans-1,3-Dichloropropene	U			0.00169	0.00552	1	03/30/2019 04:55	WG1258093	
trans-1,4-Dichloro-2-butene	U			0.00154	0.00552	1	03/30/2019 04:55	WG1258093	
2,2-Dichloropropane	U			0.000875	0.00276	1	03/30/2019 04:55	WG1258093	
Di-isopropyl ether	U	UJ	J0	0.000386	0.00110	1	03/30/2019 04:55	WG1258093	
Ethylbenzene	U			0.000585	0.00276	1	03/30/2019 04:55	WG1258093	
Hexachloro-1,3-butadiene	U			0.0140	0.0276	1	03/30/2019 04:55	WG1258093	
2-Hexanone	U			0.0110	0.0276	1	03/30/2019 04:55	WG1258093	
n-Hexane	0.00226	J	J	0.00117	0.00552	1	03/30/2019 04:55	WG1258093	JC 4/22/19
Iodomethane	U			0.00668	0.0138	1	03/30/2019 04:55	WG1258093	
Isopropylbenzene	U			0.000952	0.00276	1	03/30/2019 04:55	WG1258093	
p-Isopropyltoluene	U			0.00257	0.00552	1	03/30/2019 04:55	WG1258093	
2-Butanone (MEK)	U			0.0138	0.0276	1	03/30/2019 04:55	WG1258093	
Methylene Chloride	U			0.00733	0.0276	1	03/30/2019 04:55	WG1258093	
4-Methyl-2-pentanone (MIBK)	U			0.0110	0.0276	1	03/30/2019 04:55	WG1258093	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000325	0.00110	1	03/30/2019 04:55	WG1258093
Naphthalene	U		0.00344	0.0138	1	03/30/2019 04:55	WG1258093
n-Propylbenzene	U		0.00130	0.00552	1	03/30/2019 04:55	WG1258093
Styrene	U		0.00301	0.0138	1	03/30/2019 04:55	WG1258093
1,1,1,2-Tetrachloroethane	U		0.000552	0.00276	1	03/30/2019 04:55	WG1258093
1,1,2,2-Tetrachloroethane	U		0.000430	0.00276	1	03/30/2019 04:55	WG1258093
1,1,2-Trichlorotrifluoroethane	U		0.000745	0.00276	1	03/30/2019 04:55	WG1258093
Tetrachloroethene	0.0237		0.000772	0.00276	1	03/30/2019 04:55	WG1258093
Toluene	U		0.00138	0.00552	1	03/30/2019 04:55	WG1258093
1,2,3-Trichlorobenzene	U		0.000690	0.00276	1	03/30/2019 04:55	WG1258093
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	03/30/2019 04:55	WG1258093
1,1,1-Trichloroethane	U		0.000303	0.00276	1	03/30/2019 04:55	WG1258093
1,1,2-Trichloroethane	U		0.000974	0.00276	1	03/30/2019 04:55	WG1258093
Trichloroethene	0.00331	J J4	0.000441	0.00110	1	03/30/2019 04:55	WG1258093
Trichlorofluoromethane	U		0.000552	0.00276	1	03/30/2019 04:55	WG1258093
1,2,3-Trichloropropane	U		0.00563	0.0138	1	03/30/2019 04:55	WG1258093
1,2,4-Trimethylbenzene	U		0.00128	0.00552	1	03/30/2019 04:55	WG1258093
1,2,3-Trimethylbenzene	U		0.00127	0.00552	1	03/30/2019 04:55	WG1258093
1,3,5-Trimethylbenzene	U		0.00119	0.00552	1	03/30/2019 04:55	WG1258093
Vinyl acetate	U	UJ J0	0.00388	0.0138	1	03/30/2019 04:55	WG1258093
Vinyl chloride	U		0.000754	0.00276	1	03/30/2019 04:55	WG1258093
Xylenes, Total	U	~~J4~~	0.00527	0.00717	1	03/30/2019 04:55	WG1258093
(S) Toluene-d8	*105*			*75.0-131*		*03/30/2019 04:55*	WG1258093
(S) Toluene-d8	*93.8*			*75.0-131*		*04/01/2019 00:15*	WG1258511
(S) 4-Bromofluorobenzene	*93.2*			*67.0-138*		*03/30/2019 04:55*	WG1258093
(S) 4-Bromofluorobenzene	*78.5*			*67.0-138*		*04/01/2019 00:15*	WG1258511
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/30/2019 04:55*	WG1258093
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/01/2019 00:15*	WG1258511

JC 4/22/19

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	92.3		1	03/29/2019 10:27	WG1257599

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0148	0.0271	1	04/01/2019 00:35	WG1258511
Acrylonitrile	U UJ	J0	0.00206	0.0135	1	03/30/2019 05:14	WG1258093
Benzene	U		0.000434	0.00108	1	03/30/2019 05:14	WG1258093
Bromobenzene	U		0.00114	0.0135	1	03/30/2019 05:14	WG1258093
Bromodichloromethane	U		0.000854	0.00271	1	03/30/2019 05:14	WG1258093
Bromochloromethane	U UJ	J4	0.00122	0.00542	1	03/30/2019 05:14	WG1258093
Bromoform	U		0.00648	0.0271	1	03/30/2019 05:14	WG1258093
Bromomethane	U UJ	J0	0.00401	0.0135	1	03/30/2019 05:14	WG1258093
n-Butylbenzene	U		0.00416	0.0135	1	03/30/2019 05:14	WG1258093
sec-Butylbenzene	U		0.00274	0.0135	1	03/30/2019 05:14	WG1258093
tert-Butylbenzene	U		0.00168	0.00542	1	03/30/2019 05:14	WG1258093
Carbon disulfide	U		0.00440	0.0135	1	03/30/2019 05:14	WG1258093
Carbon tetrachloride	U		0.00117	0.00542	1	03/30/2019 05:14	WG1258093
Chlorobenzene	U		0.000621	0.00271	1	03/30/2019 05:14	WG1258093
Chlorodibromomethane	U		0.000488	0.00271	1	03/30/2019 05:14	WG1258093
Chloroethane	U UJ	J0	0.00117	0.00542	1	03/30/2019 05:14	WG1258093
Chloroform	U		0.000450	0.00271	1	03/30/2019 05:14	WG1258093
Chloromethane	U		0.00151	0.0135	1	03/30/2019 05:14	WG1258093
2-Chlorotoluene	U		0.000997	0.00271	1	03/30/2019 05:14	WG1258093
4-Chlorotoluene	U UJ	J0	0.00122	0.00542	1	03/30/2019 05:14	WG1258093
1,2-Dibromo-3-Chloropropane	U		0.00553	0.0271	1	03/30/2019 05:14	WG1258093
1,2-Dibromoethane	U		0.000569	0.00271	1	03/30/2019 05:14	WG1258093
Dibromomethane	U		0.00108	0.00542	1	03/30/2019 05:14	WG1258093
1,2-Dichlorobenzene	U		0.00157	0.00542	1	03/30/2019 05:14	WG1258093
1,3-Dichlorobenzene	U		0.00184	0.00542	1	03/30/2019 05:14	WG1258093
1,4-Dichlorobenzene	U UJ	J4	0.00214	0.00542	1	03/30/2019 05:14	WG1258093
Dichlorodifluoromethane	U		0.000887	0.00271	1	03/30/2019 05:14	WG1258093
1,1-Dichloroethane	U		0.000623	0.00271	1	03/30/2019 05:14	WG1258093
1,2-Dichloroethane	U		0.000515	0.00271	1	03/30/2019 05:14	WG1258093
1,1-Dichloroethene	U		0.000542	0.00271	1	03/30/2019 05:14	WG1258093
cis-1,2-Dichloroethene	0.0255		0.000748	0.00271	1	03/30/2019 05:14	WG1258093
trans-1,2-Dichloroethene	U		0.00155	0.00542	1	03/30/2019 05:14	WG1258093
1,2-Dichloropropane	U		0.00138	0.00542	1	03/30/2019 05:14	WG1258093
1,1-Dichloropropene	U		0.000759	0.00271	1	03/30/2019 05:14	WG1258093
1,3-Dichloropropane	U		0.00190	0.00542	1	03/30/2019 05:14	WG1258093
cis-1,3-Dichloropropene	U		0.000735	0.00271	1	03/30/2019 05:14	WG1258093
trans-1,3-Dichloropropene	U		0.00166	0.00542	1	03/30/2019 05:14	WG1258093
trans-1,4-Dichloro-2-butene	U		0.00152	0.00542	1	03/30/2019 05:14	WG1258093
2,2-Dichloropropane	U		0.000859	0.00271	1	03/30/2019 05:14	WG1258093
Di-isopropyl ether	U UJ	J0	0.000379	0.00108	1	03/30/2019 05:14	WG1258093
Ethylbenzene	U		0.000574	0.00271	1	03/30/2019 05:14	WG1258093
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	03/30/2019 05:14	WG1258093
2-Hexanone	U		0.0108	0.0271	1	03/30/2019 05:14	WG1258093
n-Hexane	0.00357 J	J	0.00115	0.00542	1	03/30/2019 05:14	WG1258093
Iodomethane	U		0.00656	0.0135	1	03/30/2019 05:14	WG1258093
Isopropylbenzene	U		0.000935	0.00271	1	03/30/2019 05:14	WG1258093 JC 4/22/19
p-Isopropyltoluene	U		0.00253	0.00542	1	03/30/2019 05:14	WG1258093
2-Butanone (MEK)	U		0.0135	0.0271	1	03/30/2019 05:14	WG1258093
Methylene Chloride	U		0.00720	0.0271	1	03/30/2019 05:14	WG1258093
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0271	1	03/30/2019 05:14	WG1258093

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00108	1	03/30/2019 05:14	WG1258093
Naphthalene	U		0.00338	0.0135	1	03/30/2019 05:14	WG1258093
n-Propylbenzene	U		0.00128	0.00542	1	03/30/2019 05:14	WG1258093
Styrene	U		0.00296	0.0135	1	03/30/2019 05:14	WG1258093
1,1,1,2-Tetrachloroethane	U		0.000542	0.00271	1	03/30/2019 05:14	WG1258093
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	03/30/2019 05:14	WG1258093
1,1,2-Trichlorotrifluoroethane	U		0.000732	0.00271	1	03/30/2019 05:14	WG1258093
Tetrachloroethene	0.00688		0.000759	0.00271	1	03/30/2019 05:14	WG1258093
Toluene	U		0.00135	0.00542	1	03/30/2019 05:14	WG1258093
1,2,3-Trichlorobenzene	U		0.000677	0.00271	1	03/30/2019 05:14	WG1258093
1,2,4-Trichlorobenzene	U		0.00522	0.0135	1	03/30/2019 05:14	WG1258093
1,1,1-Trichloroethane	U		0.000298	0.00271	1	03/30/2019 05:14	WG1258093
1,1,2-Trichloroethane	U		0.000957	0.00271	1	03/30/2019 05:14	WG1258093
Trichloroethene	0.00244	J J4	0.000434	0.00108	1	03/30/2019 05:14	WG1258093
Trichlorofluoromethane	U		0.000542	0.00271	1	03/30/2019 05:14	WG1258093
1,2,3-Trichloropropane	U		0.00553	0.0135	1	03/30/2019 05:14	WG1258093
1,2,4-Trimethylbenzene	U		0.00126	0.00542	1	03/30/2019 05:14	WG1258093
1,2,3-Trimethylbenzene	U		0.00125	0.00542	1	03/30/2019 05:14	WG1258093
1,3,5-Trimethylbenzene	U		0.00117	0.00542	1	03/30/2019 05:14	WG1258093
Vinyl acetate	U	UJ J0	0.00382	0.0135	1	03/30/2019 05:14	WG1258093
Vinyl chloride	U		0.000740	0.00271	1	03/30/2019 05:14	WG1258093
Xylenes, Total	U	~~J4~~	0.00518	0.00704	1	03/30/2019 05:14	WG1258093
(S) Toluene-d8	*106*			*75.0-131*		*03/30/2019 05:14*	WG1258093
(S) Toluene-d8	*92.5*			*75.0-131*		*04/01/2019 00:35*	WG1258511
(S) 4-Bromofluorobenzene	*92.7*			*67.0-138*		*03/30/2019 05:14*	WG1258093
(S) 4-Bromofluorobenzene	*81.3*			*67.0-138*		*04/01/2019 00:35*	WG1258511
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/30/2019 05:14*	WG1258093
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/01/2019 00:35*	WG1258511

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.5		1	04/01/2019 16:26	WG1258846

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0287	1.06	04/01/2019 18:31	WG1259054
Acrylonitrile	U		0.00217	0.0143	1.06	04/01/2019 17:32	WG1258976
Benzene	U		0.000459	0.00115	1.06	04/01/2019 17:32	WG1258976
Bromobenzene	U		0.00120	0.0143	1.06	04/01/2019 17:32	WG1258976
Bromodichloromethane	U		0.000903	0.00287	1.06	04/01/2019 17:32	WG1258976
Bromochloromethane	U		0.00130	0.00573	1.06	04/01/2019 17:32	WG1258976
Bromoform	U		0.00686	0.0287	1.06	04/01/2019 17:32	WG1258976
Bromomethane	U		0.00424	0.0143	1.06	04/01/2019 17:32	WG1258976
n-Butylbenzene	U		0.00440	0.0143	1.06	04/01/2019 17:32	WG1258976
sec-Butylbenzene	U		0.00290	0.0143	1.06	04/01/2019 17:32	WG1258976
tert-Butylbenzene	U		0.00177	0.00573	1.06	04/01/2019 17:32	WG1258976
Carbon disulfide	U		0.00465	0.0143	1.06	04/01/2019 17:32	WG1258976
Carbon tetrachloride	U		0.00123	0.00573	1.06	04/01/2019 17:32	WG1258976
Chlorobenzene	U		0.000657	0.00287	1.06	04/01/2019 17:32	WG1258976
Chlorodibromomethane	U		0.000516	0.00287	1.06	04/01/2019 17:32	WG1258976
Chloroethane	U		0.00123	0.00573	1.06	04/01/2019 17:32	WG1258976
Chloroform	U		0.000476	0.00287	1.06	04/01/2019 17:32	WG1258976
Chloromethane	U		0.00159	0.0143	1.06	04/01/2019 17:32	WG1258976
2-Chlorotoluene	U		0.00105	0.00287	1.06	04/01/2019 17:32	WG1258976
4-Chlorotoluene	U		0.00130	0.00573	1.06	04/01/2019 17:32	WG1258976
1,2-Dibromo-3-Chloropropane	U		0.00585	0.0287	1.06	04/01/2019 17:32	WG1258976
1,2-Dibromoethane	U		0.000601	0.00287	1.06	04/01/2019 17:32	WG1258976
Dibromomethane	U		0.00115	0.00573	1.06	04/01/2019 17:32	WG1258976
1,2-Dichlorobenzene	U		0.00167	0.00573	1.06	04/01/2019 17:32	WG1258976
1,3-Dichlorobenzene	U		0.00195	0.00573	1.06	04/01/2019 17:32	WG1258976
1,4-Dichlorobenzene	U		0.00226	0.00573	1.06	04/01/2019 17:32	WG1258976
Dichlorodifluoromethane	U		0.000938	0.00287	1.06	04/01/2019 17:32	WG1258976
1,1-Dichloroethane	U		0.000660	0.00287	1.06	04/01/2019 17:32	WG1258976
1,2-Dichloroethane	U		0.000545	0.00287	1.06	04/01/2019 17:32	WG1258976
1,1-Dichloroethene	U		0.000573	0.00287	1.06	04/01/2019 17:32	WG1258976
cis-1,2-Dichloroethene	U		0.000791	0.00287	1.06	04/01/2019 17:32	WG1258976
trans-1,2-Dichloroethene	U		0.00164	0.00573	1.06	04/01/2019 17:32	WG1258976
1,2-Dichloropropane	U		0.00146	0.00573	1.06	04/01/2019 17:32	WG1258976
1,1-Dichloropropene	U		0.000803	0.00287	1.06	04/01/2019 17:32	WG1258976
1,3-Dichloropropane	U		0.00201	0.00573	1.06	04/01/2019 17:32	WG1258976
cis-1,3-Dichloropropene	U		0.000778	0.00287	1.06	04/01/2019 17:32	WG1258976
trans-1,3-Dichloropropene	U		0.00175	0.00573	1.06	04/01/2019 17:32	WG1258976
trans-1,4-Dichloro-2-butene	U		0.00160	0.00573	1.06	04/01/2019 17:32	WG1258976
2,2-Dichloropropane	U		0.000909	0.00287	1.06	04/01/2019 17:32	WG1258976
Di-isopropyl ether	U		0.000401	0.00115	1.06	04/01/2019 17:32	WG1258976
Ethylbenzene	U		0.000608	0.00287	1.06	04/01/2019 17:32	WG1258976
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1.06	04/01/2019 17:32	WG1258976
2-Hexanone	U		0.0115	0.0287	1.06	04/01/2019 17:32	WG1258976
n-Hexane	0.00150 J	J	0.00121	0.00573	1.06	04/01/2019 17:32	WG1258976
Iodomethane	U		0.00693	0.0143	1.06	04/01/2019 17:32	WG1258976
Isopropylbenzene	U		0.000990	0.00287	1.06	04/01/2019 17:32	WG1258976
p-Isopropyltoluene	U		0.00267	0.00573	1.06	04/01/2019 17:32	WG1258976
2-Butanone (MEK)	U		0.0143	0.0287	1.06	04/01/2019 17:32	WG1258976
Methylene Chloride	0.0117 J	J	0.00761	0.0287	1.06	04/01/2019 17:32	WG1258976
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1.06	04/01/2019 17:32	WG1258976

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B21D21-10

Collected date/time: 03/25/19 15:20

SAMPLE RESULTS - 01

L1082918

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000339	0.00115	1.06	04/01/2019 17:32	WG1258976
Naphthalene	U		0.00358	0.0143	1.06	04/01/2019 17:32	WG1258976
n-Propylbenzene	U		0.00135	0.00573	1.06	04/01/2019 17:32	WG1258976
Styrene	U		0.00313	0.0143	1.06	04/01/2019 17:32	WG1258976
1,1,1,2-Tetrachloroethane	U		0.000573	0.00287	1.06	04/01/2019 17:32	WG1258976
1,1,2,2-Tetrachloroethane	U		0.000447	0.00287	1.06	04/01/2019 17:32	WG1258976
1,1,2-Trichlorotrifluoroethane	U		0.000774	0.00287	1.06	04/01/2019 17:32	WG1258976
Tetrachloroethene	U		0.000803	0.00287	1.06	04/01/2019 18:31	WG1259054
Toluene	U		0.00143	0.00573	1.06	04/01/2019 17:32	WG1258976
1,2,3-Trichlorobenzene	U		0.000716	0.00287	1.06	04/01/2019 17:32	WG1258976
1,2,4-Trichlorobenzene	U		0.00553	0.0143	1.06	04/01/2019 17:32	WG1258976
1,1,1-Trichloroethane	U		0.000316	0.00287	1.06	04/01/2019 17:32	WG1258976
1,1,2-Trichloroethane	U		0.00101	0.00287	1.06	04/01/2019 17:32	WG1258976
Trichloroethene	U		0.000459	0.00115	1.06	04/01/2019 17:32	WG1258976
Trichlorofluoromethane	U		0.000573	0.00287	1.06	04/01/2019 17:32	WG1258976
1,2,3-Trichloropropane	U		0.00585	0.0143	1.06	04/01/2019 17:32	WG1258976
1,2,4-Trimethylbenzene	U		0.00133	0.00573	1.06	04/01/2019 17:32	WG1258976
1,2,3-Trimethylbenzene	U		0.00132	0.00573	1.06	04/01/2019 17:32	WG1258976
1,3,5-Trimethylbenzene	U		0.00123	0.00573	1.06	04/01/2019 17:32	WG1258976
Vinyl acetate	U		0.00403	0.0143	1.06	04/01/2019 17:32	WG1258976
Vinyl chloride	U		0.000783	0.00287	1.06	04/01/2019 17:32	WG1258976
Xylenes, Total	U		0.00548	0.00745	1.06	04/01/2019 17:32	WG1258976
(S) Toluene-d8	*105*			*75.0-131*		*04/01/2019 17:32*	WG1258976
(S) Toluene-d8	*93.4*			*75.0-131*		*04/01/2019 18:31*	WG1259054
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*04/01/2019 17:32*	WG1258976
(S) 4-Bromofluorobenzene	*80.3*			*67.0-138*		*04/01/2019 18:31*	WG1259054
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*04/01/2019 17:32*	WG1258976
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/01/2019 18:31*	WG1259054

JC 4/22/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.3		1	04/01/2019 16:26	WG1258846

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0162	0.0296	1.08	04/01/2019 18:11	WG1259054
Acrylonitrile	U		0.00225	0.0148	1.08	04/01/2019 17:52	WG1258976
Benzene	U		0.000473	0.00118	1.08	04/01/2019 17:52	WG1258976
Bromobenzene	U		0.00124	0.0148	1.08	04/01/2019 17:52	WG1258976
Bromodichloromethane	U		0.000932	0.00296	1.08	04/01/2019 17:52	WG1258976
Bromochloromethane	U		0.00134	0.00592	1.08	04/01/2019 17:52	WG1258976
Bromoform	U		0.00708	0.0296	1.08	04/01/2019 17:52	WG1258976
Bromomethane	U		0.00438	0.0148	1.08	04/01/2019 17:52	WG1258976
n-Butylbenzene	U		0.00455	0.0148	1.08	04/01/2019 17:52	WG1258976
sec-Butylbenzene	U		0.00299	0.0148	1.08	04/01/2019 17:52	WG1258976
tert-Butylbenzene	U		0.00183	0.00592	1.08	04/01/2019 17:52	WG1258976
Carbon disulfide	U		0.00480	0.0148	1.08	04/01/2019 17:52	WG1258976
Carbon tetrachloride	U		0.00128	0.00592	1.08	04/01/2019 17:52	WG1258976
Chlorobenzene	U		0.000678	0.00296	1.08	04/01/2019 17:52	WG1258976
Chlorodibromomethane	U		0.000532	0.00296	1.08	04/01/2019 17:52	WG1258976
Chloroethane	U		0.00128	0.00592	1.08	04/01/2019 17:52	WG1258976
Chloroform	U		0.000491	0.00296	1.08	04/01/2019 17:52	WG1258976
Chloromethane	U		0.00164	0.0148	1.08	04/01/2019 17:52	WG1258976
2-Chlorotoluene	U		0.00109	0.00296	1.08	04/01/2019 17:52	WG1258976
4-Chlorotoluene	U		0.00134	0.00592	1.08	04/01/2019 17:52	WG1258976
1,2-Dibromo-3-Chloropropane	U		0.00604	0.0296	1.08	04/01/2019 17:52	WG1258976
1,2-Dibromoethane	U		0.000621	0.00296	1.08	04/01/2019 17:52	WG1258976
Dibromomethane	U		0.00118	0.00592	1.08	04/01/2019 17:52	WG1258976
1,2-Dichlorobenzene	U		0.00172	0.00592	1.08	04/01/2019 17:52	WG1258976
1,3-Dichlorobenzene	U		0.00202	0.00592	1.08	04/01/2019 17:52	WG1258976
1,4-Dichlorobenzene	U		0.00233	0.00592	1.08	04/01/2019 17:52	WG1258976
Dichlorodifluoromethane	U		0.000967	0.00296	1.08	04/01/2019 17:52	WG1258976
1,1-Dichloroethane	U		0.000680	0.00296	1.08	04/01/2019 17:52	WG1258976
1,2-Dichloroethane	U		0.000562	0.00296	1.08	04/01/2019 17:52	WG1258976
1,1-Dichloroethene	U		0.000592	0.00296	1.08	04/01/2019 17:52	WG1258976
cis-1,2-Dichloroethene	U		0.000816	0.00296	1.08	04/01/2019 17:52	WG1258976
trans-1,2-Dichloroethene	U		0.00169	0.00592	1.08	04/01/2019 17:52	WG1258976
1,2-Dichloropropane	U		0.00150	0.00592	1.08	04/01/2019 17:52	WG1258976
1,1-Dichloropropene	U		0.000828	0.00296	1.08	04/01/2019 17:52	WG1258976
1,3-Dichloropropane	U		0.00207	0.00592	1.08	04/01/2019 17:52	WG1258976
cis-1,3-Dichloropropene	U		0.000802	0.00296	1.08	04/01/2019 17:52	WG1258976
trans-1,3-Dichloropropene	U		0.00181	0.00592	1.08	04/01/2019 17:52	WG1258976
trans-1,4-Dichloro-2-butene	U		0.00165	0.00592	1.08	04/01/2019 17:52	WG1258976
2,2-Dichloropropane	U		0.000938	0.00296	1.08	04/01/2019 17:52	WG1258976
Di-isopropyl ether	U		0.000414	0.00118	1.08	04/01/2019 17:52	WG1258976
Ethylbenzene	U		0.000627	0.00296	1.08	04/01/2019 17:52	WG1258976
Hexachloro-1,3-butadiene	U		0.0150	0.0296	1.08	04/01/2019 17:52	WG1258976
2-Hexanone	U		0.0118	0.0296	1.08	04/01/2019 17:52	WG1258976
n-Hexane	0.00134 J	J	0.00125	0.00592	1.08	04/01/2019 17:52	WG1258976
Iodomethane	U		0.00715	0.0148	1.08	04/01/2019 17:52	WG1258976
Isopropylbenzene	U		0.00102	0.00296	1.08	04/01/2019 17:52	WG1258976
p-Isopropyltoluene	U		0.00276	0.00592	1.08	04/01/2019 17:52	WG1258976
2-Butanone (MEK)	U		0.0148	0.0296	1.08	04/01/2019 17:52	WG1258976
Methylene Chloride	0.00925 J	J	0.00785	0.0296	1.08	04/01/2019 17:52	WG1258976
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0296	1.08	04/01/2019 17:52	WG1258976

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000349	0.00118	1.08	04/01/2019 17:52	WG1258976
Naphthalene	U		0.00369	0.0148	1.08	04/01/2019 17:52	WG1258976
n-Propylbenzene	U		0.00139	0.00592	1.08	04/01/2019 17:52	WG1258976
Styrene	U		0.00323	0.0148	1.08	04/01/2019 17:52	WG1258976
1,1,1,2-Tetrachloroethane	U		0.000592	0.00296	1.08	04/01/2019 17:52	WG1258976
1,1,2,2-Tetrachloroethane	U		0.000461	0.00296	1.08	04/01/2019 17:52	WG1258976
1,1,2-Trichlorotrifluoroethane	U		0.000799	0.00296	1.08	04/01/2019 17:52	WG1258976
Tetrachloroethene	U		0.000828	0.00296	1.08	04/01/2019 18:11	WG1259054
Toluene	U		0.00148	0.00592	1.08	04/01/2019 17:52	WG1258976
1,2,3-Trichlorobenzene	U		0.000739	0.00296	1.08	04/01/2019 17:52	WG1258976
1,2,4-Trichlorobenzene	U		0.00570	0.0148	1.08	04/01/2019 17:52	WG1258976
1,1,1-Trichloroethane	U		0.000325	0.00296	1.08	04/01/2019 17:52	WG1258976
1,1,2-Trichloroethane	U		0.00105	0.00296	1.08	04/01/2019 17:52	WG1258976
Trichloroethene	U		0.000473	0.00118	1.08	04/01/2019 17:52	WG1258976
Trichlorofluoromethane	U		0.000592	0.00296	1.08	04/01/2019 17:52	WG1258976
1,2,3-Trichloropropane	U		0.00604	0.0148	1.08	04/01/2019 17:52	WG1258976
1,2,4-Trimethylbenzene	U		0.00137	0.00592	1.08	04/01/2019 17:52	WG1258976
1,2,3-Trimethylbenzene	U		0.00136	0.00592	1.08	04/01/2019 17:52	WG1258976
1,3,5-Trimethylbenzene	U		0.00128	0.00592	1.08	04/01/2019 17:52	WG1258976
Vinyl acetate	U		0.00416	0.0148	1.08	04/01/2019 17:52	WG1258976
Vinyl chloride	U		0.000808	0.00296	1.08	04/01/2019 17:52	WG1258976
Xylenes, Total	U		0.00565	0.00769	1.08	04/01/2019 17:52	WG1258976
(S) Toluene-d8	*104*			*75.0-131*		*04/01/2019 17:52*	WG1258976
(S) Toluene-d8	*94.9*			*75.0-131*		*04/01/2019 18:11*	WG1259054
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*04/01/2019 17:52*	WG1258976
(S) 4-Bromofluorobenzene	*78.8*			*67.0-138*		*04/01/2019 18:11*	WG1259054
(S) 1,2-Dichloroethane-d4	*97.3*			*70.0-130*		*04/01/2019 17:52*	WG1258976
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/01/2019 18:11*	WG1259054

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.8		1	04/01/2019 16:26	WG1258846

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0261 U	~~J~~	0.0148	0.0270	1	04/02/2019 20:21	WG1259714
Acrylonitrile	U		0.00205	0.0135	1	04/01/2019 18:54	WG1258976
Benzene	U		0.000431	0.00108	1	04/01/2019 18:54	WG1258976
Bromobenzene	U		0.00113	0.0135	1	04/01/2019 18:54	WG1258976
Bromodichloromethane	U		0.000850	0.00270	1	04/01/2019 18:54	WG1258976
Bromochloromethane	U		0.00122	0.00539	1	04/01/2019 18:54	WG1258976
Bromoform	U		0.00645	0.0270	1	04/01/2019 18:54	WG1258976
Bromomethane	U		0.00399	0.0135	1	04/01/2019 18:54	WG1258976
n-Butylbenzene	U		0.00414	0.0135	1	04/01/2019 18:54	WG1258976
sec-Butylbenzene	U		0.00273	0.0135	1	04/01/2019 18:54	WG1258976
tert-Butylbenzene	U		0.00167	0.00539	1	04/01/2019 18:54	WG1258976
Carbon disulfide	0.0141		0.00438	0.0135	1	04/01/2019 18:54	WG1258976
Carbon tetrachloride	U		0.00116	0.00539	1	04/01/2019 18:54	WG1258976
Chlorobenzene	U		0.000618	0.00270	1	04/01/2019 18:54	WG1258976
Chlorodibromomethane	U		0.000485	0.00270	1	04/01/2019 18:54	WG1258976
Chloroethane	U		0.00116	0.00539	1	04/01/2019 18:54	WG1258976
Chloroform	U		0.000447	0.00270	1	04/01/2019 18:54	WG1258976
Chloromethane	U		0.00150	0.0135	1	04/01/2019 18:54	WG1258976
2-Chlorotoluene	U		0.000992	0.00270	1	04/01/2019 18:54	WG1258976
4-Chlorotoluene	U		0.00122	0.00539	1	04/01/2019 18:54	WG1258976
1,2-Dibromo-3-Chloropropane	U		0.00550	0.0270	1	04/01/2019 18:54	WG1258976
1,2-Dibromoethane	U		0.000566	0.00270	1	04/01/2019 18:54	WG1258976
Dibromomethane	U		0.00108	0.00539	1	04/01/2019 18:54	WG1258976
1,2-Dichlorobenzene	U		0.00156	0.00539	1	04/01/2019 18:54	WG1258976
1,3-Dichlorobenzene	U		0.00183	0.00539	1	04/01/2019 18:54	WG1258976
1,4-Dichlorobenzene	U		0.00212	0.00539	1	04/01/2019 18:54	WG1258976
Dichlorodifluoromethane	U		0.000882	0.00270	1	04/01/2019 18:54	WG1258976
1,1-Dichloroethane	U		0.000620	0.00270	1	04/01/2019 18:54	WG1258976
1,2-Dichloroethane	U		0.000512	0.00270	1	04/01/2019 18:54	WG1258976
1,1-Dichloroethene	U		0.000539	0.00270	1	04/01/2019 18:54	WG1258976
cis-1,2-Dichloroethene	0.0215		0.000744	0.00270	1	04/01/2019 18:54	WG1258976
trans-1,2-Dichloroethene	U		0.00154	0.00539	1	04/01/2019 18:54	WG1258976
1,2-Dichloropropane	U		0.00137	0.00539	1	04/01/2019 18:54	WG1258976
1,1-Dichloropropene	U		0.000755	0.00270	1	04/01/2019 18:54	WG1258976
1,3-Dichloropropane	U		0.00189	0.00539	1	04/01/2019 18:54	WG1258976
cis-1,3-Dichloropropene	U		0.000731	0.00270	1	04/01/2019 18:54	WG1258976
trans-1,3-Dichloropropene	U		0.00165	0.00539	1	04/01/2019 18:54	WG1258976
trans-1,4-Dichloro-2-butene	U		0.00151	0.00539	1	04/01/2019 18:54	WG1258976
2,2-Dichloropropane	U		0.000855	0.00270	1	04/01/2019 18:54	WG1258976
Di-isopropyl ether	U		0.000377	0.00108	1	04/01/2019 18:54	WG1258976
Ethylbenzene	U		0.000571	0.00270	1	04/01/2019 18:54	WG1258976
Hexachloro-1,3-butadiene	U		0.0137	0.0270	1	04/01/2019 18:54	WG1258976
2-Hexanone	U		0.0108	0.0270	1	04/01/2019 18:54	WG1258976
n-Hexane	0.00496 J	J	0.00114	0.00539	1	04/01/2019 18:54	WG1258976
Iodomethane	U		0.00652	0.0135	1	04/01/2019 18:54	WG1258976
Isopropylbenzene	U		0.000930	0.00270	1	04/01/2019 18:54	WG1258976
p-Isopropyltoluene	U		0.00251	0.00539	1	04/01/2019 18:54	WG1258976
2-Butanone (MEK)	U		0.0135	0.0270	1	04/01/2019 18:54	WG1258976
Methylene Chloride	0.00824 J	J	0.00716	0.0270	1	04/01/2019 18:54	WG1258976
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0270	1	04/01/2019 18:54	WG1258976

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000318	0.00108	1	04/01/2019 18:54	WG1258976
Naphthalene	U		0.00336	0.0135	1	04/01/2019 18:54	WG1258976
n-Propylbenzene	U		0.00127	0.00539	1	04/01/2019 18:54	WG1258976
Styrene	U		0.00294	0.0135	1	04/01/2019 18:54	WG1258976
1,1,1,2-Tetrachloroethane	U		0.000539	0.00270	1	04/01/2019 18:54	WG1258976
1,1,2,2-Tetrachloroethane	U		0.000420	0.00270	1	04/01/2019 18:54	WG1258976
1,1,2-Trichlorotrifluoroethane	U		0.000728	0.00270	1	04/01/2019 18:54	WG1258976
Tetrachloroethene	2.06		0.000755	0.00270	1	04/01/2019 18:54	WG1258976
Toluene	U		0.00135	0.00539	1	04/01/2019 18:54	WG1258976
1,2,3-Trichlorobenzene	U		0.000674	0.00270	1	04/01/2019 18:54	WG1258976
1,2,4-Trichlorobenzene	U		0.00520	0.0135	1	04/01/2019 18:54	WG1258976
1,1,1-Trichloroethane	U		0.000296	0.00270	1	04/01/2019 18:54	WG1258976
1,1,2-Trichloroethane	U		0.000952	0.00270	1	04/01/2019 18:54	WG1258976
Trichloroethene	0.0810		0.000431	0.00108	1	04/01/2019 18:54	WG1258976
Trichlorofluoromethane	U		0.000539	0.00270	1	04/01/2019 18:54	WG1258976
1,2,3-Trichloropropane	U		0.00550	0.0135	1	04/01/2019 18:54	WG1258976
1,2,4-Trimethylbenzene	U		0.00125	0.00539	1	04/01/2019 18:54	WG1258976
1,2,3-Trimethylbenzene	U		0.00124	0.00539	1	04/01/2019 18:54	WG1258976
1,3,5-Trimethylbenzene	U		0.00116	0.00539	1	04/01/2019 18:54	WG1258976
Vinyl acetate	U		0.00379	0.0135	1	04/01/2019 18:54	WG1258976
Vinyl chloride	U		0.000736	0.00270	1	04/01/2019 18:54	WG1258976
Xylenes, Total	U		0.00515	0.00701	1	04/01/2019 18:54	WG1258976
(S) Toluene-d8	*105*			*75.0-131*		*04/01/2019 18:54*	WG1258976
(S) Toluene-d8	*93.7*			*75.0-131*		*04/02/2019 20:21*	WG1259714
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*04/01/2019 18:54*	WG1258976
(S) 4-Bromofluorobenzene	*77.4*			*67.0-138*		*04/02/2019 20:21*	WG1259714
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*04/01/2019 18:54*	WG1258976
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*04/02/2019 20:21*	WG1259714

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

B21D21-40

Collected date/time: 03/25/19 17:35

SAMPLE RESULTS - 04

L1082918

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.2		1	04/01/2019 16:26	WG1258846

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0227	U ~~J~~	0.0152	0.0277	1	04/02/2019 20:41	WG1259714
Acrylonitrile	U		0.00211	0.0139	1	04/01/2019 19:14	WG1258976
Benzene	U		0.000443	0.00111	1	04/01/2019 19:14	WG1258976
Bromobenzene	U		0.00116	0.0139	1	04/01/2019 19:14	WG1258976
Bromodichloromethane	U		0.000873	0.00277	1	04/01/2019 19:14	WG1258976
Bromochloromethane	U		0.00125	0.00554	1	04/01/2019 19:14	WG1258976
Bromoform	U		0.00663	0.0277	1	04/01/2019 19:14	WG1258976
Bromomethane	U		0.00410	0.0139	1	04/01/2019 19:14	WG1258976
n-Butylbenzene	U		0.00426	0.0139	1	04/01/2019 19:14	WG1258976
sec-Butylbenzene	U		0.00280	0.0139	1	04/01/2019 19:14	WG1258976
tert-Butylbenzene	U		0.00172	0.00554	1	04/01/2019 19:14	WG1258976
Carbon disulfide	U		0.00450	0.0139	1	04/01/2019 19:14	WG1258976
Carbon tetrachloride	U		0.00120	0.00554	1	04/01/2019 19:14	WG1258976
Chlorobenzene	U		0.000635	0.00277	1	04/01/2019 19:14	WG1258976
Chlorodibromomethane	U		0.000499	0.00277	1	04/01/2019 19:14	WG1258976
Chloroethane	U		0.00120	0.00554	1	04/01/2019 19:14	WG1258976
Chloroform	U		0.000460	0.00277	1	04/01/2019 19:14	WG1258976
Chloromethane	U		0.00154	0.0139	1	04/01/2019 19:14	WG1258976
2-Chlorotoluene	U		0.00102	0.00277	1	04/01/2019 19:14	WG1258976
4-Chlorotoluene	U		0.00125	0.00554	1	04/01/2019 19:14	WG1258976
1,2-Dibromo-3-Chloropropane	U		0.00565	0.0277	1	04/01/2019 19:14	WG1258976
1,2-Dibromoethane	U		0.000582	0.00277	1	04/01/2019 19:14	WG1258976
Dibromomethane	U		0.00111	0.00554	1	04/01/2019 19:14	WG1258976
1,2-Dichlorobenzene	U		0.00161	0.00554	1	04/01/2019 19:14	WG1258976
1,3-Dichlorobenzene	U		0.00188	0.00554	1	04/01/2019 19:14	WG1258976
1,4-Dichlorobenzene	U		0.00218	0.00554	1	04/01/2019 19:14	WG1258976
Dichlorodifluoromethane	U		0.000906	0.00277	1	04/01/2019 19:14	WG1258976
1,1-Dichloroethane	U		0.000637	0.00277	1	04/01/2019 19:14	WG1258976
1,2-Dichloroethane	U		0.000526	0.00277	1	04/01/2019 19:14	WG1258976
1,1-Dichloroethene	U		0.000554	0.00277	1	04/01/2019 19:14	WG1258976
cis-1,2-Dichloroethene	U		0.000765	0.00277	1	04/01/2019 19:14	WG1258976
trans-1,2-Dichloroethene	U		0.00158	0.00554	1	04/01/2019 19:14	WG1258976
1,2-Dichloropropane	U		0.00141	0.00554	1	04/01/2019 19:14	WG1258976
1,1-Dichloropropene	U		0.000776	0.00277	1	04/01/2019 19:14	WG1258976
1,3-Dichloropropane	U		0.00194	0.00554	1	04/01/2019 19:14	WG1258976
cis-1,3-Dichloropropene	U		0.000751	0.00277	1	04/01/2019 19:14	WG1258976
trans-1,3-Dichloropropene	U		0.00170	0.00554	1	04/01/2019 19:14	WG1258976
trans-1,4-Dichloro-2-butene	U		0.00155	0.00554	1	04/01/2019 19:14	WG1258976
2,2-Dichloropropane	U		0.000879	0.00277	1	04/01/2019 19:14	WG1258976
Di-isopropyl ether	U		0.000388	0.00111	1	04/01/2019 19:14	WG1258976
Ethylbenzene	U		0.000587	0.00277	1	04/01/2019 19:14	WG1258976
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	04/01/2019 19:14	WG1258976
2-Hexanone	U		0.0111	0.0277	1	04/01/2019 19:14	WG1258976
n-Hexane	0.00370	J J	0.00117	0.00554	1	04/01/2019 19:14	WG1258976
Iodomethane	U		0.00670	0.0139	1	04/01/2019 19:14	WG1258976
Isopropylbenzene	U		0.000956	0.00277	1	04/01/2019 19:14	WG1258976
p-Isopropyltoluene	U		0.00258	0.00554	1	04/01/2019 19:14	WG1258976
2-Butanone (MEK)	U		0.0139	0.0277	1	04/01/2019 19:14	WG1258976
Methylene Chloride	0.00949	J J	0.00736	0.0277	1	04/01/2019 19:14	WG1258976
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	04/01/2019 19:14	WG1258976

JC 4/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000327	0.00111	1	04/01/2019 19:14	WG1258976
Naphthalene	U		0.00346	0.0139	1	04/01/2019 19:14	WG1258976
n-Propylbenzene	U		0.00131	0.00554	1	04/01/2019 19:14	WG1258976
Styrene	U		0.00303	0.0139	1	04/01/2019 19:14	WG1258976
1,1,1,2-Tetrachloroethane	U		0.000554	0.00277	1	04/01/2019 19:14	WG1258976
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	04/01/2019 19:14	WG1258976
1,1,2-Trichlorotrifluoroethane	U		0.000748	0.00277	1	04/01/2019 19:14	WG1258976
Tetrachloroethene	0.00395		0.000776	0.00277	1	04/01/2019 19:14	WG1258976
Toluene	U		0.00139	0.00554	1	04/01/2019 19:14	WG1258976
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	04/01/2019 19:14	WG1258976
1,2,4-Trichlorobenzene	U		0.00534	0.0139	1	04/01/2019 19:14	WG1258976
1,1,1-Trichloroethane	U		0.000305	0.00277	1	04/01/2019 19:14	WG1258976
1,1,2-Trichloroethane	U		0.000978	0.00277	1	04/01/2019 19:14	WG1258976
Trichloroethene	U		0.000443	0.00111	1	04/01/2019 19:14	WG1258976
Trichlorofluoromethane	U		0.000554	0.00277	1	04/01/2019 19:14	WG1258976
1,2,3-Trichloropropane	U		0.00565	0.0139	1	04/01/2019 19:14	WG1258976
1,2,4-Trimethylbenzene	U		0.00129	0.00554	1	04/01/2019 19:14	WG1258976
1,2,3-Trimethylbenzene	U		0.00127	0.00554	1	04/01/2019 19:14	WG1258976
1,3,5-Trimethylbenzene	U		0.00120	0.00554	1	04/01/2019 19:14	WG1258976
Vinyl acetate	U		0.00390	0.0139	1	04/01/2019 19:14	WG1258976
Vinyl chloride	U		0.000757	0.00277	1	04/01/2019 19:14	WG1258976
Xylenes, Total	U		0.00530	0.00720	1	04/01/2019 19:14	WG1258976
(S) Toluene-d8	*106*			*75.0-131*		*04/01/2019 19:14*	WG1258976
(S) Toluene-d8	*93.2*			*75.0-131*		*04/02/2019 20:41*	WG1259714
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*04/01/2019 19:14*	WG1258976
(S) 4-Bromofluorobenzene	*78.7*			*67.0-138*		*04/02/2019 20:41*	WG1259714
(S) 1,2-Dichloroethane-d4	*97.6*			*70.0-130*		*04/01/2019 19:14*	WG1258976
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/02/2019 20:41*	WG1259714

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.3		1	04/01/2019 16:26	WG1258846

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0361		0.0155	0.0283	1	04/02/2019 21:01	WG1259714	
Acrylonitrile	U		0.00215	0.0142	1	04/01/2019 19:34	WG1258976	
Benzene	U		0.000453	0.00113	1	04/01/2019 19:34	WG1258976	
Bromobenzene	U		0.00119	0.0142	1	04/01/2019 19:34	WG1258976	
Bromodichloromethane	U		0.000893	0.00283	1	04/01/2019 19:34	WG1258976	
Bromochloromethane	U		0.00128	0.00566	1	04/01/2019 19:34	WG1258976	
Bromoform	U		0.00677	0.0283	1	04/01/2019 19:34	WG1258976	
Bromomethane	U		0.00419	0.0142	1	04/01/2019 19:34	WG1258976	
n-Butylbenzene	U		0.00435	0.0142	1	04/01/2019 19:34	WG1258976	
sec-Butylbenzene	U		0.00287	0.0142	1	04/01/2019 19:34	WG1258976	
tert-Butylbenzene	U		0.00176	0.00566	1	04/01/2019 19:34	WG1258976	
Carbon disulfide	U		0.00460	0.0142	1	04/01/2019 19:34	WG1258976	
Carbon tetrachloride	U		0.00122	0.00566	1	04/01/2019 19:34	WG1258976	
Chlorobenzene	U		0.000649	0.00283	1	04/01/2019 19:34	WG1258976	
Chlorodibromomethane	U		0.000510	0.00283	1	04/01/2019 19:34	WG1258976	
Chloroethane	U		0.00122	0.00566	1	04/01/2019 19:34	WG1258976	
Chloroform	U		0.000470	0.00283	1	04/01/2019 19:34	WG1258976	
Chloromethane	U		0.00157	0.0142	1	04/01/2019 19:34	WG1258976	
2-Chlorotoluene	U		0.00104	0.00283	1	04/01/2019 19:34	WG1258976	
4-Chlorotoluene	U		0.00128	0.00566	1	04/01/2019 19:34	WG1258976	
1,2-Dibromo-3-Chloropropane	U		0.00578	0.0283	1	04/01/2019 19:34	WG1258976	
1,2-Dibromoethane	U		0.000595	0.00283	1	04/01/2019 19:34	WG1258976	
Dibromomethane	U		0.00113	0.00566	1	04/01/2019 19:34	WG1258976	
1,2-Dichlorobenzene	U		0.00164	0.00566	1	04/01/2019 19:34	WG1258976	
1,3-Dichlorobenzene	U		0.00193	0.00566	1	04/01/2019 19:34	WG1258976	
1,4-Dichlorobenzene	U		0.00223	0.00566	1	04/01/2019 19:34	WG1258976	
Dichlorodifluoromethane	U		0.000927	0.00283	1	04/01/2019 19:34	WG1258976	
1,1-Dichloroethane	U		0.000651	0.00283	1	04/01/2019 19:34	WG1258976	
1,2-Dichloroethane	U		0.000538	0.00283	1	04/01/2019 19:34	WG1258976	
1,1-Dichloroethene	U		0.000566	0.00283	1	04/01/2019 19:34	WG1258976	JC 4/22/19
cis-1,2-Dichloroethene	0.307		0.000782	0.00283	1	04/01/2019 19:34	WG1258976	
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	04/01/2019 19:34	WG1258976	
1,2-Dichloropropane	U		0.00144	0.00566	1	04/01/2019 19:34	WG1258976	
1,1-Dichloropropene	U		0.000793	0.00283	1	04/01/2019 19:34	WG1258976	
1,3-Dichloropropane	U		0.00198	0.00566	1	04/01/2019 19:34	WG1258976	
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	04/01/2019 19:34	WG1258976	
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	04/01/2019 19:34	WG1258976	
trans-1,4-Dichloro-2-butene	U		0.00159	0.00566	1	04/01/2019 19:34	WG1258976	
2,2-Dichloropropane	U		0.000898	0.00283	1	04/01/2019 19:34	WG1258976	
Di-isopropyl ether	U		0.000396	0.00113	1	04/01/2019 19:34	WG1258976	
Ethylbenzene	U		0.000600	0.00283	1	04/01/2019 19:34	WG1258976	
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	04/01/2019 19:34	WG1258976	
2-Hexanone	U		0.0113	0.0283	1	04/01/2019 19:34	WG1258976	
n-Hexane	U		0.00120	0.00566	1	04/01/2019 19:34	WG1258976	
Iodomethane	U		0.00685	0.0142	1	04/01/2019 19:34	WG1258976	
Isopropylbenzene	U		0.000978	0.00283	1	04/01/2019 19:34	WG1258976	
p-Isopropyltoluene	U		0.00264	0.00566	1	04/01/2019 19:34	WG1258976	
2-Butanone (MEK)	0.0353		0.0142	0.0283	1	04/01/2019 19:34	WG1258976	
Methylene Chloride	0.0106 J	J	0.00752	0.0283	1	04/01/2019 19:34	WG1258976	
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	04/01/2019 19:34	WG1258976	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	04/01/2019 19:34	WG1258976
Naphthalene	U		0.00353	0.0142	1	04/01/2019 19:34	WG1258976
n-Propylbenzene	U		0.00134	0.00566	1	04/01/2019 19:34	WG1258976
Styrene	U		0.00309	0.0142	1	04/01/2019 19:34	WG1258976
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	04/01/2019 19:34	WG1258976
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	04/01/2019 19:34	WG1258976
1,1,2-Trichlorotrifluoroethane	U		0.000765	0.00283	1	04/01/2019 19:34	WG1258976
Tetrachloroethene	0.600		0.000793	0.00283	1	04/01/2019 19:34	WG1258976
Toluene	0.00229 J	J	0.00142	0.00566	1	04/01/2019 19:34	WG1258976
1,2,3-Trichlorobenzene	U		0.000708	0.00283	1	04/01/2019 19:34	WG1258976
1,2,4-Trichlorobenzene	U		0.00546	0.0142	1	04/01/2019 19:34	WG1258976
1,1,1-Trichloroethane	U		0.000311	0.00283	1	04/01/2019 19:34	WG1258976
1,1,2-Trichloroethane	U		0.00100	0.00283	1	04/01/2019 19:34	WG1258976
Trichloroethene	0.00903		0.000453	0.00113	1	04/01/2019 19:34	WG1258976
Trichlorofluoromethane	U		0.000566	0.00283	1	04/01/2019 19:34	WG1258976
1,2,3-Trichloropropane	U		0.00578	0.0142	1	04/01/2019 19:34	WG1258976
1,2,4-Trimethylbenzene	U		0.00131	0.00566	1	04/01/2019 19:34	WG1258976
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	04/01/2019 19:34	WG1258976
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	04/01/2019 19:34	WG1258976
Vinyl acetate	U		0.00399	0.0142	1	04/01/2019 19:34	WG1258976
Vinyl chloride	0.0933		0.000774	0.00283	1	04/01/2019 19:34	WG1258976
Xylenes, Total	U		0.00541	0.00736	1	04/01/2019 19:34	WG1258976
(S) Toluene-d8	*105*			*75.0-131*		*04/01/2019 19:34*	WG1258976
(S) Toluene-d8	*94.4*			*75.0-131*		*04/02/2019 21:01*	WG1259714
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*04/01/2019 19:34*	WG1258976
(S) 4-Bromofluorobenzene	*78.2*			*67.0-138*		*04/02/2019 21:01*	WG1259714
(S) 1,2-Dichloroethane-d4	*95.5*			*70.0-130*		*04/01/2019 19:34*	WG1258976
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/02/2019 21:01*	WG1259714

JC 4/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	91.6		1	04/01/2019 16:26	WG1258846

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Acetone	0.0321		0.0150	0.0273	1	04/02/2019 21:21	WG1259714	
Acrylonitrile	U		0.00207	0.0136	1	04/01/2019 19:55	WG1258976	
Benzene	U		0.000437	0.00109	1	04/01/2019 19:55	WG1258976	
Bromobenzene	U		0.00115	0.0136	1	04/01/2019 19:55	WG1258976	
Bromodichloromethane	U		0.000860	0.00273	1	04/01/2019 19:55	WG1258976	
Bromochloromethane	U		0.00123	0.00546	1	04/01/2019 19:55	WG1258976	
Bromoform	U		0.00653	0.0273	1	04/01/2019 19:55	WG1258976	
Bromomethane	U		0.00404	0.0136	1	04/01/2019 19:55	WG1258976	
n-Butylbenzene	U		0.00419	0.0136	1	04/01/2019 19:55	WG1258976	
sec-Butylbenzene	U		0.00276	0.0136	1	04/01/2019 19:55	WG1258976	
tert-Butylbenzene	U		0.00169	0.00546	1	04/01/2019 19:55	WG1258976	
Carbon disulfide	U		0.00443	0.0136	1	04/01/2019 19:55	WG1258976	
Carbon tetrachloride	U		0.00118	0.00546	1	04/01/2019 19:55	WG1258976	
Chlorobenzene	U		0.000625	0.00273	1	04/01/2019 19:55	WG1258976	
Chlorodibromomethane	U		0.000491	0.00273	1	04/01/2019 19:55	WG1258976	
Chloroethane	U		0.00118	0.00546	1	04/01/2019 19:55	WG1258976	
Chloroform	U		0.000453	0.00273	1	04/01/2019 19:55	WG1258976	
Chloromethane	U		0.00152	0.0136	1	04/01/2019 19:55	WG1258976	
2-Chlorotoluene	U		0.00100	0.00273	1	04/01/2019 19:55	WG1258976	
4-Chlorotoluene	U		0.00123	0.00546	1	04/01/2019 19:55	WG1258976	
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	04/01/2019 19:55	WG1258976	
1,2-Dibromoethane	U		0.000573	0.00273	1	04/01/2019 19:55	WG1258976	
Dibromomethane	U		0.00109	0.00546	1	04/01/2019 19:55	WG1258976	
1,2-Dichlorobenzene	U		0.00158	0.00546	1	04/01/2019 19:55	WG1258976	
1,3-Dichlorobenzene	U		0.00186	0.00546	1	04/01/2019 19:55	WG1258976	
1,4-Dichlorobenzene	U		0.00215	0.00546	1	04/01/2019 19:55	WG1258976	
Dichlorodifluoromethane	U		0.000893	0.00273	1	04/01/2019 19:55	WG1258976	
1,1-Dichloroethane	U		0.000628	0.00273	1	04/01/2019 19:55	WG1258976	
1,2-Dichloroethane	U		0.000518	0.00273	1	04/01/2019 19:55	WG1258976	
1,1-Dichloroethene	U		0.000546	0.00273	1	04/01/2019 19:55	WG1258976	JC 4/22/19
cis-1,2-Dichloroethene	0.0961 J		0.000753	0.00273	1	04/01/2019 19:55	WG1258976	
trans-1,2-Dichloroethene	U		0.00156	0.00546	1	04/01/2019 19:55	WG1258976	
1,2-Dichloropropane	U		0.00139	0.00546	1	04/01/2019 19:55	WG1258976	
1,1-Dichloropropene	U		0.000764	0.00273	1	04/01/2019 19:55	WG1258976	
1,3-Dichloropropane	U		0.00191	0.00546	1	04/01/2019 19:55	WG1258976	
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	04/01/2019 19:55	WG1258976	
trans-1,3-Dichloropropene	U		0.00167	0.00546	1	04/01/2019 19:55	WG1258976	
trans-1,4-Dichloro-2-butene	U		0.00153	0.00546	1	04/01/2019 19:55	WG1258976	
2,2-Dichloropropane	U		0.000865	0.00273	1	04/01/2019 19:55	WG1258976	
Di-isopropyl ether	U		0.000382	0.00109	1	04/01/2019 19:55	WG1258976	
Ethylbenzene	U		0.000578	0.00273	1	04/01/2019 19:55	WG1258976	
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	04/01/2019 19:55	WG1258976	
2-Hexanone	U		0.0109	0.0273	1	04/01/2019 19:55	WG1258976	
n-Hexane	0.00221 J	J	0.00116	0.00546	1	04/01/2019 19:55	WG1258976	
Iodomethane	U		0.00660	0.0136	1	04/01/2019 19:55	WG1258976	
Isopropylbenzene	U		0.000942	0.00273	1	04/01/2019 19:55	WG1258976	
p-Isopropyltoluene	U		0.00254	0.00546	1	04/01/2019 19:55	WG1258976	
2-Butanone (MEK)	0.0427		0.0136	0.0273	1	04/01/2019 19:55	WG1258976	
Methylene Chloride	0.00899 J	J	0.00725	0.0273	1	04/01/2019 19:55	WG1258976	
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	04/01/2019 19:55	WG1258976	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	04/01/2019 19:55	WG1258976
Naphthalene	U		0.00341	0.0136	1	04/01/2019 19:55	WG1258976
n-Propylbenzene	U		0.00129	0.00546	1	04/01/2019 19:55	WG1258976
Styrene	U		0.00298	0.0136	1	04/01/2019 19:55	WG1258976
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1	04/01/2019 19:55	WG1258976
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	04/01/2019 19:55	WG1258976
1,1,2-Trichlorotrifluoroethane	U		0.000737	0.00273	1	04/01/2019 19:55	WG1258976
Tetrachloroethene	0.00192 J	J	0.000764	0.00273	1	04/01/2019 19:55	WG1258976
Toluene	U		0.00136	0.00546	1	04/01/2019 19:55	WG1258976
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	04/01/2019 19:55	WG1258976
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	04/01/2019 19:55	WG1258976
1,1,1-Trichloroethane	U		0.000300	0.00273	1	04/01/2019 19:55	WG1258976
1,1,2-Trichloroethane	U		0.000964	0.00273	1	04/01/2019 19:55	WG1258976
Trichloroethene	U		0.000437	0.00109	1	04/01/2019 19:55	WG1258976
Trichlorofluoromethane	U		0.000546	0.00273	1	04/01/2019 19:55	WG1258976
1,2,3-Trichloropropane	U		0.00557	0.0136	1	04/01/2019 19:55	WG1258976
1,2,4-Trimethylbenzene	U		0.00127	0.00546	1	04/01/2019 19:55	WG1258976
1,2,3-Trimethylbenzene	U		0.00126	0.00546	1	04/01/2019 19:55	WG1258976
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	04/01/2019 19:55	WG1258976
Vinyl acetate	U		0.00384	0.0136	1	04/01/2019 19:55	WG1258976
Vinyl chloride	0.0162 J		0.000745	0.00273	1	04/01/2019 19:55	WG1258976
Xylenes, Total	U		0.00522	0.00709	1	04/01/2019 19:55	WG1258976
(S) Toluene-d8	*103*			*75.0-131*		*04/01/2019 19:55*	WG1258976
(S) Toluene-d8	*93.2*			*75.0-131*		*04/02/2019 21:21*	WG1259714
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*04/01/2019 19:55*	WG1258976
(S) 4-Bromofluorobenzene	*81.7*			*67.0-138*		*04/02/2019 21:21*	WG1259714
(S) 1,2-Dichloroethane-d4	*97.6*			*70.0-130*		*04/01/2019 19:55*	WG1258976
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*04/02/2019 21:21*	WG1259714

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.4		1	04/01/2019 16:26	WG1258846

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0319		0.0150	0.0274	1	04/02/2019 21:41	WG1259714
Acrylonitrile	U		0.00208	0.0137	1	04/01/2019 20:15	WG1258976
Benzene	U		0.000438	0.00109	1	04/01/2019 20:15	WG1258976
Bromobenzene	U		0.00115	0.0137	1	04/01/2019 20:15	WG1258976
Bromodichloromethane	U		0.000863	0.00274	1	04/01/2019 20:15	WG1258976
Bromochloromethane	U		0.00124	0.00547	1	04/01/2019 20:15	WG1258976
Bromoform	U		0.00655	0.0274	1	04/01/2019 20:15	WG1258976
Bromomethane	U		0.00405	0.0137	1	04/01/2019 20:15	WG1258976
n-Butylbenzene	U		0.00420	0.0137	1	04/01/2019 20:15	WG1258976
sec-Butylbenzene	U		0.00277	0.0137	1	04/01/2019 20:15	WG1258976
tert-Butylbenzene	U		0.00170	0.00547	1	04/01/2019 20:15	WG1258976
Carbon disulfide	U		0.00444	0.0137	1	04/01/2019 20:15	WG1258976
Carbon tetrachloride	U		0.00118	0.00547	1	04/01/2019 20:15	WG1258976
Chlorobenzene	U		0.000627	0.00274	1	04/01/2019 20:15	WG1258976
Chlorodibromomethane	U		0.000493	0.00274	1	04/01/2019 20:15	WG1258976
Chloroethane	U		0.00118	0.00547	1	04/01/2019 20:15	WG1258976
Chloroform	U		0.000454	0.00274	1	04/01/2019 20:15	WG1258976
Chloromethane	U		0.00152	0.0137	1	04/01/2019 20:15	WG1258976
2-Chlorotoluene	U		0.00101	0.00274	1	04/01/2019 20:15	WG1258976
4-Chlorotoluene	U		0.00124	0.00547	1	04/01/2019 20:15	WG1258976
1,2-Dibromo-3-Chloropropane	U		0.00558	0.0274	1	04/01/2019 20:15	WG1258976
1,2-Dibromoethane	U		0.000575	0.00274	1	04/01/2019 20:15	WG1258976
Dibromomethane	U		0.00109	0.00547	1	04/01/2019 20:15	WG1258976
1,2-Dichlorobenzene	U		0.00159	0.00547	1	04/01/2019 20:15	WG1258976
1,3-Dichlorobenzene	U		0.00186	0.00547	1	04/01/2019 20:15	WG1258976
1,4-Dichlorobenzene	U		0.00216	0.00547	1	04/01/2019 20:15	WG1258976
Dichlorodifluoromethane	U		0.000895	0.00274	1	04/01/2019 20:15	WG1258976
1,1-Dichloroethane	U		0.000629	0.00274	1	04/01/2019 20:15	WG1258976
1,2-Dichloroethane	U		0.000520	0.00274	1	04/01/2019 20:15	WG1258976
1,1-Dichloroethene	U		0.000547	0.00274	1	04/01/2019 20:15	WG1258976 JC 4/22/19
cis-1,2-Dichloroethene	0.180 J		0.000755	0.00274	1	04/01/2019 20:15	WG1258976
trans-1,2-Dichloroethene	U		0.00157	0.00547	1	04/01/2019 20:15	WG1258976
1,2-Dichloropropane	U		0.00139	0.00547	1	04/01/2019 20:15	WG1258976
1,1-Dichloropropene	U		0.000766	0.00274	1	04/01/2019 20:15	WG1258976
1,3-Dichloropropane	U		0.00192	0.00547	1	04/01/2019 20:15	WG1258976
cis-1,3-Dichloropropene	U		0.000742	0.00274	1	04/01/2019 20:15	WG1258976
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	04/01/2019 20:15	WG1258976
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	04/01/2019 20:15	WG1258976
2,2-Dichloropropane	U		0.000868	0.00274	1	04/01/2019 20:15	WG1258976
Di-isopropyl ether	U		0.000383	0.00109	1	04/01/2019 20:15	WG1258976
Ethylbenzene	U		0.000580	0.00274	1	04/01/2019 20:15	WG1258976
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	04/01/2019 20:15	WG1258976
2-Hexanone	U		0.0109	0.0274	1	04/01/2019 20:15	WG1258976
n-Hexane	0.00317 J	J	0.00116	0.00547	1	04/01/2019 20:15	WG1258976
Iodomethane	U		0.00662	0.0137	1	04/01/2019 20:15	WG1258976
Isopropylbenzene	U		0.000945	0.00274	1	04/01/2019 20:15	WG1258976
p-Isopropyltoluene	U		0.00255	0.00547	1	04/01/2019 20:15	WG1258976
2-Butanone (MEK)	0.0321		0.0137	0.0274	1	04/01/2019 20:15	WG1258976
Methylene Chloride	0.0112 J	J	0.00727	0.0274	1	04/01/2019 20:15	WG1258976
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0274	1	04/01/2019 20:15	WG1258976

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00109	1	04/01/2019 20:15	WG1258976
Naphthalene	U		0.00342	0.0137	1	04/01/2019 20:15	WG1258976
n-Propylbenzene	U		0.00129	0.00547	1	04/01/2019 20:15	WG1258976
Styrene	U		0.00299	0.0137	1	04/01/2019 20:15	WG1258976
1,1,1,2-Tetrachloroethane	U		0.000547	0.00274	1	04/01/2019 20:15	WG1258976
1,1,2,2-Tetrachloroethane	U		0.000427	0.00274	1	04/01/2019 20:15	WG1258976
1,1,2-Trichlorotrifluoroethane	U		0.000739	0.00274	1	04/01/2019 20:15	WG1258976
Tetrachloroethene	U		0.000766	0.00274	1	04/01/2019 20:15	WG1258976
Toluene	0.00180 J	J	0.00137	0.00547	1	04/01/2019 20:15	WG1258976
1,2,3-Trichlorobenzene	U		0.000684	0.00274	1	04/01/2019 20:15	WG1258976
1,2,4-Trichlorobenzene	U		0.00528	0.0137	1	04/01/2019 20:15	WG1258976
1,1,1-Trichloroethane	U		0.000301	0.00274	1	04/01/2019 20:15	WG1258976
1,1,2-Trichloroethane	U		0.000967	0.00274	1	04/01/2019 20:15	WG1258976
Trichloroethene	U		0.000438	0.00109	1	04/01/2019 20:15	WG1258976
Trichlorofluoromethane	U		0.000547	0.00274	1	04/01/2019 20:15	WG1258976
1,2,3-Trichloropropane	U		0.00558	0.0137	1	04/01/2019 20:15	WG1258976
1,2,4-Trimethylbenzene	0.00146 J	J	0.00127	0.00547	1	04/01/2019 20:15	WG1258976
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	04/01/2019 20:15	WG1258976
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	04/01/2019 20:15	WG1258976
Vinyl acetate	U		0.00385	0.0137	1	04/01/2019 20:15	WG1258976
Vinyl chloride	0.0601 J		0.000748	0.00274	1	04/01/2019 20:15	WG1258976
Xylenes, Total	U		0.00523	0.00711	1	04/01/2019 20:15	WG1258976
(S) Toluene-d8	*105*			*75.0-131*		*04/01/2019 20:15*	WG1258976
(S) Toluene-d8	*96.4*			*75.0-131*		*04/02/2019 21:41*	WG1259714
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*04/01/2019 20:15*	WG1258976
(S) 4-Bromofluorobenzene	*77.0*			*67.0-138*		*04/02/2019 21:41*	WG1259714
(S) 1,2-Dichloroethane-d4	*97.6*			*70.0-130*		*04/01/2019 20:15*	WG1258976
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*04/02/2019 21:41*	WG1259714

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	1.36	J	1.05	25.0	1	03/28/2019 19:20	WG1257024	
Acrylonitrile	U		0.873	5.00	1	03/28/2019 19:20	WG1257024	
Benzene	U		0.0896	0.500	1	03/28/2019 19:20	WG1257024	
Bromobenzene	U		0.133	0.500	1	03/28/2019 19:20	WG1257024	
Bromodichloromethane	U		0.0800	0.500	1	03/28/2019 19:20	WG1257024	
Bromochloromethane	U		0.145	0.500	1	03/28/2019 19:20	WG1257024	
Bromoform	U		0.186	0.500	1	03/28/2019 19:20	WG1257024	
Bromomethane	U		0.157	2.50	1	03/28/2019 19:20	WG1257024	
n-Butylbenzene	U		0.143	0.500	1	03/28/2019 19:20	WG1257024	
sec-Butylbenzene	U		0.134	0.500	1	03/28/2019 19:20	WG1257024	
tert-Butylbenzene	U		0.183	0.500	1	03/28/2019 19:20	WG1257024	
Carbon disulfide	U		0.101	0.500	1	03/28/2019 19:20	WG1257024	
Carbon tetrachloride	U		0.159	0.500	1	03/28/2019 19:20	WG1257024	
Chlorobenzene	U		0.140	0.500	1	03/28/2019 19:20	WG1257024	
Chlorodibromomethane	U		0.128	0.500	1	03/28/2019 19:20	WG1257024	
Chloroethane	U		0.141	2.50	1	03/28/2019 19:20	WG1257024	
Chloroform	U		0.0860	0.500	1	03/28/2019 19:20	WG1257024	
Chloromethane	U		0.153	1.25	1	03/28/2019 19:20	WG1257024	
2-Chlorotoluene	U		0.111	0.500	1	03/28/2019 19:20	WG1257024	
4-Chlorotoluene	U		0.0972	0.500	1	03/28/2019 19:20	WG1257024	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/28/2019 19:20	WG1257024	
1,2-Dibromoethane	U		0.193	0.500	1	03/28/2019 19:20	WG1257024	
Dibromomethane	U		0.117	0.500	1	03/28/2019 19:20	WG1257024	
1,2-Dichlorobenzene	U		0.101	0.500	1	03/28/2019 19:20	WG1257024	
1,3-Dichlorobenzene	U		0.130	0.500	1	03/28/2019 19:20	WG1257024	
1,4-Dichlorobenzene	U		0.121	0.500	1	03/28/2019 19:20	WG1257024	
Dichlorodifluoromethane	U		0.127	2.50	1	03/28/2019 19:20	WG1257024	
1,1-Dichloroethane	U		0.114	0.500	1	03/28/2019 19:20	WG1257024	
1,2-Dichloroethane	U		0.108	0.500	1	03/28/2019 19:20	WG1257024	
1,1-Dichloroethene	U		0.188	0.500	1	03/28/2019 19:20	WG1257024	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	03/28/2019 19:20	WG1257024	
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/28/2019 19:20	WG1257024	
1,2-Dichloropropane	U		0.190	0.500	1	03/28/2019 19:20	WG1257024	
1,1-Dichloropropene	U		0.128	0.500	1	03/28/2019 19:20	WG1257024	JC 4/22/19
1,3-Dichloropropane	U		0.147	1.00	1	03/28/2019 19:20	WG1257024	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/28/2019 19:20	WG1257024	
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/28/2019 19:20	WG1257024	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/28/2019 19:20	WG1257024	
2,2-Dichloropropane	U		0.0929	0.500	1	03/28/2019 19:20	WG1257024	
Di-isopropyl ether	U		0.0924	0.500	1	03/28/2019 19:20	WG1257024	
Ethylbenzene	U		0.158	0.500	1	03/28/2019 19:20	WG1257024	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/28/2019 19:20	WG1257024	
2-Hexanone	U		0.757	5.00	1	03/28/2019 19:20	WG1257024	
n-Hexane	U		0.305	5.00	1	03/28/2019 19:20	WG1257024	
Iodomethane	U		0.377	10.0	1	03/28/2019 19:20	WG1257024	
Isopropylbenzene	U		0.126	0.500	1	03/28/2019 19:20	WG1257024	
p-Isopropyltoluene	U		0.138	0.500	1	03/28/2019 19:20	WG1257024	
2-Butanone (MEK)	U		1.28	5.00	1	03/28/2019 19:20	WG1257024	
Methylene Chloride	U		1.07	2.50	1	03/28/2019 19:20	WG1257024	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/28/2019 19:20	WG1257024	
Methyl tert-butyl ether	U		0.102	0.500	1	03/28/2019 19:20	WG1257024	
Naphthalene	U		0.174	2.50	1	03/28/2019 19:20	WG1257024	
n-Propylbenzene	U		0.162	0.500	1	03/28/2019 19:20	WG1257024	
Styrene	U		0.117	0.500	1	03/28/2019 19:20	WG1257024	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/28/2019 19:20	WG1257024	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/28/2019 19:20	WG1257024	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/28/2019 19:20	WG1257024
Tetrachloroethene	U		0.199	0.500	1	03/28/2019 19:20	WG1257024
Toluene	U		0.412	0.500	1	03/28/2019 19:20	WG1257024
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/28/2019 19:20	WG1257024
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/28/2019 19:20	WG1257024
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/28/2019 19:20	WG1257024
1,1,2-Trichloroethane	U		0.186	0.500	1	03/28/2019 19:20	WG1257024
Trichloroethene	U		0.153	0.500	1	03/28/2019 19:20	WG1257024
Trichlorofluoromethane	U		0.130	2.50	1	03/28/2019 19:20	WG1257024
1,2,3-Trichloropropane	U		0.247	2.50	1	03/28/2019 19:20	WG1257024
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/28/2019 19:20	WG1257024
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/28/2019 19:20	WG1257024
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/28/2019 19:20	WG1257024
Vinyl acetate	U		0.645	5.00	1	03/28/2019 19:20	WG1257024
Vinyl chloride	U		0.118	0.500	1	03/28/2019 19:20	WG1257024
Xylenes, Total	U		0.316	1.50	1	03/28/2019 19:20	WG1257024
(S) Toluene-d8	*104*			*80.0-120*		*03/28/2019 19:20*	WG1257024
(S) 4-Bromofluorobenzene	*97.6*			*77.0-126*		*03/28/2019 19:20*	WG1257024
(S) 1,2-Dichloroethane-d4	*96.7*			*70.0-130*		*03/28/2019 19:20*	WG1257024

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MEMORANDUM

TO: Project File **DATE:** April 8, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.601

TASK: EIM Data Validation Level EPA2A for March 2019 - Groundwater Samples

LAB: Pace Sample Delivery Groups (SDGs): L1079374 and L1079439

Twenty-one (21) groundwater samples including one (1) field duplicate, one (1) equipment blank, and two (2) trip blanks were collected as Round 3 Interim Action Compliance Monitoring sampling event at the Former American Linen Supply Site, in Seattle, Washington on March 11-14, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology.

The sampling event is ongoing and associated groundwater sample data are reported in two Pace SDGs (L1079374 and L1079439). The quality assurance review of the sample data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria were met.

NWTPH-Gx Method:
All samples were analyzed for gasoline within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PE's notes indicate the following:

- SDG L1079439 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issue was noted by Pace for vinyl acetate associated with analytical batch WG1252994 (analyzed on March 22, 2019). Associated sample results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs).

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1079374 - Analytical batch WG1250839: Gasoline is detected at a low level (below the RDL) in the method blank. No action is taken since all associated results are above the RDL or non-detect.

- SDG L1079374 - Analytical batch WG1251474: Gasoline is detected at a low level (below the RDL) in the method blank. No action is taken since associated results are above the RDL or non-detect.

Trip Blank Results

USEPA Method 8260C and NWTPH-Gx:
Two trip blanks were collected and submitted for analysis. The target analytes were not detected in the trip blanks at or above the RDLs with the following exceptions:

- SDG L1079374 - Analytical batch WG1250839: A low level of gasoline was detected below the RDL in the trip blank. No action was taken on this basis since gasoline was either not detected below the RDLs or detected above the RDLs in the associated samples.

Field, Rinsate, or Equipment Blank Results

USEPA Method 8260C and NWTPH-Gx:
The equipment blank (EQ-031119) was collected and analyzed for VOCs and gasoline. Review of the equipment blank result is as follows:

SDG L1079439: Equipment blank sample (EQ-031119) was collected on March 11, 2019 from the bladder pump and is associated with sample MW137-031119. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

- Low levels of acetone, bromodichloromethane, and chloroform (below the RDL) are detected in the equipment blank. No action was needed for these compounds as these are not detected in the associated sample.

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1079439: Samples MW136-031219 and MW908-031219

Gasoline and VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% for the field duplicate pair.

Laboratory Duplicate Analyses

USEPA Method 8260C:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or field duplicate results for precision data.

NWTPH-Gx Method:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD), field duplicate, or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, trip, equipment, and method blanks are within the laboratory surrogate control limits for all the analyses.

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip, equipment, and method blanks are within the laboratory surrogate control limits for all analyses.

Laboratory Control Samples

USEPA Method 8260C:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following exception:

- SDG L1079439 – Analytical batch WG1252994: LCS/LCSD recoveries for vinyl acetate are within criteria but were recovered wide and qualified (J3) by the laboratory. No action is taken since LCS/LCSD recoveries are within. Refer to the section on Initial and Continuing Calibration for additional action taken on vinyl acetate.

NWTPH-Gx Method:

The LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and/or field duplicate data for accuracy and precision data.

NWTPH-Gx Method:
MS/MSD analyses were performed on client or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Per Pace, certain chlorinated VOC compounds (including cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, and trichloroethene) elute within the gasoline retention time range, are considered gasoline range organics due to the elution time, and therefore likely contribute to the gasoline range organic result. **Gasoline range organic and chlorinated VOC results were reviewed and the associated sample results are estimated with possible high bias (J+) due to the possible contribution of chlorinated VOCs within the elution range. Qualified samples are as follows:**

Sample_ID	Laboratory Identification	Result_Parameter_Name	Result Value (µg/L)	Qualified Result
MW151-031219	L1079374-04	Gasoline Range Organics	143	J+
MW163-031219	L1079374-05	Gasoline Range Organics	319	J+
MW164-031219	L1079374-06	Gasoline Range Organics	565	J+
MW150-031319	L1079374-08	Gasoline Range Organics	7540	J+
MW135-031319	L1079374-09	Gasoline Range Organics	32700	J+
MW149-031319	L1079374-10	Gasoline Range Organics	15300	J+
MW104-031319	L1079374-11	Gasoline Range Organics	124	J+
MW162-031219	L1079439-09	Gasoline Range Organics	690	J+
MW152-031219	L1079439-10	Gasoline Range Organics	55900	J+

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. Though no action is taken other than to note that Pace sample narrative notes indicate that VOC target compounds were too high to run at lower dilution for one (MW152-031219) sample.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017)

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/17/2019 23:12	WG1250839
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*		*03/17/2019 23:12*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	03/20/2019 14:05	WG1252689
Acrylonitrile	U		0.873	5.00	1	03/20/2019 14:05	WG1252689
Benzene	U		0.0896	0.500	1	03/20/2019 14:05	WG1252689
Bromobenzene	U		0.133	0.500	1	03/20/2019 14:05	WG1252689
Bromodichloromethane	U		0.0800	0.500	1	03/20/2019 14:05	WG1252689
Bromochloromethane	U		0.145	0.500	1	03/20/2019 14:05	WG1252689
Bromoform	U		0.186	0.500	1	03/20/2019 14:05	WG1252689
Bromomethane	U		0.157	2.50	1	03/20/2019 14:05	WG1252689
n-Butylbenzene	U		0.143	0.500	1	03/20/2019 14:05	WG1252689
sec-Butylbenzene	U		0.134	0.500	1	03/20/2019 14:05	WG1252689
tert-Butylbenzene	U		0.183	0.500	1	03/20/2019 14:05	WG1252689
Carbon disulfide	U		0.101	0.500	1	03/20/2019 14:05	WG1252689
Carbon tetrachloride	U		0.159	0.500	1	03/20/2019 14:05	WG1252689
Chlorobenzene	U		0.140	0.500	1	03/20/2019 14:05	WG1252689
Chlorodibromomethane	U		0.128	0.500	1	03/20/2019 14:05	WG1252689
Chloroethane	U		0.141	2.50	1	03/20/2019 14:05	WG1252689
Chloroform	U		0.0860	0.500	1	03/20/2019 14:05	WG1252689
Chloromethane	U		0.153	1.25	1	03/20/2019 14:05	WG1252689
2-Chlorotoluene	U		0.111	0.500	1	03/20/2019 14:05	WG1252689
4-Chlorotoluene	U		0.0972	0.500	1	03/20/2019 14:05	WG1252689
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/20/2019 14:05	WG1252689
1,2-Dibromoethane	U		0.193	0.500	1	03/20/2019 14:05	WG1252689
Dibromomethane	U		0.117	0.500	1	03/20/2019 14:05	WG1252689
1,2-Dichlorobenzene	U		0.101	0.500	1	03/20/2019 14:05	WG1252689
1,3-Dichlorobenzene	U		0.130	0.500	1	03/20/2019 14:05	WG1252689
1,4-Dichlorobenzene	U		0.121	0.500	1	03/20/2019 14:05	WG1252689
Dichlorodifluoromethane	U		0.127	2.50	1	03/20/2019 14:05	WG1252689
1,1-Dichloroethane	U		0.114	0.500	1	03/20/2019 14:05	WG1252689
1,2-Dichloroethane	U		0.108	0.500	1	03/20/2019 14:05	WG1252689
1,1-Dichloroethene	U		0.188	0.500	1	03/20/2019 14:05	WG1252689
cis-1,2-Dichloroethene	0.550		0.0933	0.500	1	03/20/2019 14:05	WG1252689
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/20/2019 14:05	WG1252689
1,2-Dichloropropane	U		0.190	0.500	1	03/20/2019 14:05	WG1252689
1,1-Dichloropropene	U		0.128	0.500	1	03/20/2019 14:05	WG1252689
1,3-Dichloropropane	U		0.147	1.00	1	03/20/2019 14:05	WG1252689
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/20/2019 14:05	WG1252689
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/20/2019 14:05	WG1252689
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/20/2019 14:05	WG1252689
2,2-Dichloropropane	U		0.0929	0.500	1	03/20/2019 14:05	WG1252689
Di-isopropyl ether	U		0.0924	0.500	1	03/20/2019 14:05	WG1252689
Ethylbenzene	U		0.158	0.500	1	03/20/2019 14:05	WG1252689
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/20/2019 14:05	WG1252689
2-Hexanone	U		0.757	5.00	1	03/20/2019 14:05	WG1252689
n-Hexane	U		0.305	5.00	1	03/20/2019 14:05	WG1252689
Iodomethane	U		0.377	10.0	1	03/20/2019 14:05	WG1252689
Isopropylbenzene	U		0.126	0.500	1	03/20/2019 14:05	WG1252689
p-Isopropyltoluene	U		0.138	0.500	1	03/20/2019 14:05	WG1252689
2-Butanone (MEK)	U		1.28	5.00	1	03/20/2019 14:05	WG1252689

JC 4/8/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/20/2019 14:05	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 14:05	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 14:05	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 14:05	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 14:05	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 14:05	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 14:05	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 14:05	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 14:05	WG1252689
Tetrachloroethene	U		0.199	0.500	1	03/20/2019 14:05	WG1252689
Toluene	U		0.412	0.500	1	03/20/2019 14:05	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 14:05	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 14:05	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 14:05	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 14:05	WG1252689
Trichloroethene	U		0.153	0.500	1	03/20/2019 14:05	WG1252689
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 14:05	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 14:05	WG1252689
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/20/2019 14:05	WG1252689
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/20/2019 14:05	WG1252689
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/20/2019 14:05	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 14:05	WG1252689
Vinyl chloride	17.7		0.118	0.500	1	03/20/2019 14:05	WG1252689
Xylenes, Total	U		0.316	1.50	1	03/20/2019 14:05	WG1252689
(S) Toluene-d8	*105*			*80.0-120*		*03/20/2019 14:05*	WG1252689
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/20/2019 14:05*	WG1252689
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/20/2019 14:05*	WG1252689

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/17/2019 23:35	WG1250839
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*78.0-120*		*03/17/2019 23:35*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	03/20/2019 14:25	WG1252689
Acrylonitrile	U		0.873	5.00	1	03/20/2019 14:25	WG1252689
Benzene	U		0.0896	0.500	1	03/20/2019 14:25	WG1252689
Bromobenzene	U		0.133	0.500	1	03/20/2019 14:25	WG1252689
Bromodichloromethane	U		0.0800	0.500	1	03/20/2019 14:25	WG1252689
Bromochloromethane	U		0.145	0.500	1	03/20/2019 14:25	WG1252689
Bromoform	U		0.186	0.500	1	03/20/2019 14:25	WG1252689
Bromomethane	U		0.157	2.50	1	03/20/2019 14:25	WG1252689
n-Butylbenzene	U		0.143	0.500	1	03/20/2019 14:25	WG1252689
sec-Butylbenzene	U		0.134	0.500	1	03/20/2019 14:25	WG1252689
tert-Butylbenzene	U		0.183	0.500	1	03/20/2019 14:25	WG1252689
Carbon disulfide	U		0.101	0.500	1	03/20/2019 14:25	WG1252689
Carbon tetrachloride	U		0.159	0.500	1	03/20/2019 14:25	WG1252689
Chlorobenzene	U		0.140	0.500	1	03/20/2019 14:25	WG1252689
Chlorodibromomethane	U		0.128	0.500	1	03/20/2019 14:25	WG1252689
Chloroethane	U		0.141	2.50	1	03/20/2019 14:25	WG1252689
Chloroform	U		0.0860	0.500	1	03/20/2019 14:25	WG1252689
Chloromethane	U		0.153	1.25	1	03/20/2019 14:25	WG1252689
2-Chlorotoluene	U		0.111	0.500	1	03/20/2019 14:25	WG1252689
4-Chlorotoluene	U		0.0972	0.500	1	03/20/2019 14:25	WG1252689
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/20/2019 14:25	WG1252689
1,2-Dibromoethane	U		0.193	0.500	1	03/20/2019 14:25	WG1252689
Dibromomethane	U		0.117	0.500	1	03/20/2019 14:25	WG1252689
1,2-Dichlorobenzene	U		0.101	0.500	1	03/20/2019 14:25	WG1252689
1,3-Dichlorobenzene	U		0.130	0.500	1	03/20/2019 14:25	WG1252689
1,4-Dichlorobenzene	U		0.121	0.500	1	03/20/2019 14:25	WG1252689
Dichlorodifluoromethane	U		0.127	2.50	1	03/20/2019 14:25	WG1252689
1,1-Dichloroethane	U		0.114	0.500	1	03/20/2019 14:25	WG1252689
1,2-Dichloroethane	U		0.108	0.500	1	03/20/2019 14:25	WG1252689
1,1-Dichloroethene	U		0.188	0.500	1	03/20/2019 14:25	WG1252689
cis-1,2-Dichloroethene	0.330 J	J	0.0933	0.500	1	03/20/2019 14:25	WG1252689
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/20/2019 14:25	WG1252689
1,2-Dichloropropane	U		0.190	0.500	1	03/20/2019 14:25	WG1252689
1,1-Dichloropropene	U		0.128	0.500	1	03/20/2019 14:25	WG1252689
1,3-Dichloropropane	U		0.147	1.00	1	03/20/2019 14:25	WG1252689
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/20/2019 14:25	WG1252689
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/20/2019 14:25	WG1252689
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/20/2019 14:25	WG1252689
2,2-Dichloropropane	U		0.0929	0.500	1	03/20/2019 14:25	WG1252689
Di-isopropyl ether	U		0.0924	0.500	1	03/20/2019 14:25	WG1252689
Ethylbenzene	U		0.158	0.500	1	03/20/2019 14:25	WG1252689
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/20/2019 14:25	WG1252689
2-Hexanone	U		0.757	5.00	1	03/20/2019 14:25	WG1252689
n-Hexane	U		0.305	5.00	1	03/20/2019 14:25	WG1252689
Iodomethane	U		0.377	10.0	1	03/20/2019 14:25	WG1252689
Isopropylbenzene	U		0.126	0.500	1	03/20/2019 14:25	WG1252689
p-Isopropyltoluene	U		0.138	0.500	1	03/20/2019 14:25	WG1252689
2-Butanone (MEK)	U		1.28	5.00	1	03/20/2019 14:25	WG1252689

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	03/20/2019 14:25	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 14:25	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 14:25	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 14:25	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 14:25	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 14:25	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 14:25	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 14:25	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 14:25	WG1252689
Tetrachloroethene	0.206	J J	0.199	0.500	1	03/20/2019 14:25	WG1252689
Toluene	U		0.412	0.500	1	03/20/2019 14:25	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 14:25	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 14:25	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 14:25	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 14:25	WG1252689
Trichloroethene	U		0.153	0.500	1	03/20/2019 14:25	WG1252689
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 14:25	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 14:25	WG1252689
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/20/2019 14:25	WG1252689
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/20/2019 14:25	WG1252689
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/20/2019 14:25	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 14:25	WG1252689
Vinyl chloride	U		0.118	0.500	1	03/20/2019 14:25	WG1252689
Xylenes, Total	U		0.316	1.50	1	03/20/2019 14:25	WG1252689
(S) Toluene-d8	*98.9*			*80.0-120*		*03/20/2019 14:25*	WG1252689
(S) 4-Bromofluorobenzene	*97.7*			*77.0-126*		*03/20/2019 14:25*	WG1252689
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/20/2019 14:25*	WG1252689

JC 4/8/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/17/2019 23:59	WG1250839
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*78.0-120*		*03/17/2019 23:59*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	03/20/2019 14:45	WG1252689
Acrylonitrile	U		0.873	5.00	1	03/20/2019 14:45	WG1252689
Benzene	U		0.0896	0.500	1	03/20/2019 14:45	WG1252689
Bromobenzene	U		0.133	0.500	1	03/20/2019 14:45	WG1252689
Bromodichloromethane	U		0.0800	0.500	1	03/20/2019 14:45	WG1252689
Bromochloromethane	U		0.145	0.500	1	03/20/2019 14:45	WG1252689
Bromoform	U		0.186	0.500	1	03/20/2019 14:45	WG1252689
Bromomethane	U		0.157	2.50	1	03/20/2019 14:45	WG1252689
n-Butylbenzene	U		0.143	0.500	1	03/20/2019 14:45	WG1252689
sec-Butylbenzene	U		0.134	0.500	1	03/20/2019 14:45	WG1252689
tert-Butylbenzene	U		0.183	0.500	1	03/20/2019 14:45	WG1252689
Carbon disulfide	U		0.101	0.500	1	03/20/2019 14:45	WG1252689
Carbon tetrachloride	U		0.159	0.500	1	03/20/2019 14:45	WG1252689
Chlorobenzene	U		0.140	0.500	1	03/20/2019 14:45	WG1252689
Chlorodibromomethane	U		0.128	0.500	1	03/20/2019 14:45	WG1252689
Chloroethane	U		0.141	2.50	1	03/20/2019 14:45	WG1252689
Chloroform	U		0.0860	0.500	1	03/20/2019 14:45	WG1252689
Chloromethane	U		0.153	1.25	1	03/20/2019 14:45	WG1252689
2-Chlorotoluene	U		0.111	0.500	1	03/20/2019 14:45	WG1252689
4-Chlorotoluene	U		0.0972	0.500	1	03/20/2019 14:45	WG1252689
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/20/2019 14:45	WG1252689
1,2-Dibromoethane	U		0.193	0.500	1	03/20/2019 14:45	WG1252689
Dibromomethane	U		0.117	0.500	1	03/20/2019 14:45	WG1252689
1,2-Dichlorobenzene	U		0.101	0.500	1	03/20/2019 14:45	WG1252689
1,3-Dichlorobenzene	U		0.130	0.500	1	03/20/2019 14:45	WG1252689
1,4-Dichlorobenzene	U		0.121	0.500	1	03/20/2019 14:45	WG1252689
Dichlorodifluoromethane	U		0.127	2.50	1	03/20/2019 14:45	WG1252689
1,1-Dichloroethane	U		0.114	0.500	1	03/20/2019 14:45	WG1252689
1,2-Dichloroethane	U		0.108	0.500	1	03/20/2019 14:45	WG1252689
1,1-Dichloroethene	U		0.188	0.500	1	03/20/2019 14:45	WG1252689
cis-1,2-Dichloroethene	0.378 J	J	0.0933	0.500	1	03/20/2019 14:45	WG1252689
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/20/2019 14:45	WG1252689
1,2-Dichloropropane	U		0.190	0.500	1	03/20/2019 14:45	WG1252689
1,1-Dichloropropene	U		0.128	0.500	1	03/20/2019 14:45	WG1252689
1,3-Dichloropropane	U		0.147	1.00	1	03/20/2019 14:45	WG1252689
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/20/2019 14:45	WG1252689
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/20/2019 14:45	WG1252689
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/20/2019 14:45	WG1252689
2,2-Dichloropropane	U		0.0929	0.500	1	03/20/2019 14:45	WG1252689
Di-isopropyl ether	U		0.0924	0.500	1	03/20/2019 14:45	WG1252689
Ethylbenzene	U		0.158	0.500	1	03/20/2019 14:45	WG1252689
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/20/2019 14:45	WG1252689
2-Hexanone	U		0.757	5.00	1	03/20/2019 14:45	WG1252689
n-Hexane	U		0.305	5.00	1	03/20/2019 14:45	WG1252689
Iodomethane	U		0.377	10.0	1	03/20/2019 14:45	WG1252689
Isopropylbenzene	U		0.126	0.500	1	03/20/2019 14:45	WG1252689
p-Isopropyltoluene	U		0.138	0.500	1	03/20/2019 14:45	WG1252689
2-Butanone (MEK)	U		1.28	5.00	1	03/20/2019 14:45	WG1252689

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/20/2019 14:45	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 14:45	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 14:45	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 14:45	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 14:45	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 14:45	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 14:45	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 14:45	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 14:45	WG1252689
Tetrachloroethene	0.262	J J	0.199	0.500	1	03/20/2019 14:45	WG1252689
Toluene	U		0.412	0.500	1	03/20/2019 14:45	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 14:45	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 14:45	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 14:45	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 14:45	WG1252689
Trichloroethene	U		0.153	0.500	1	03/20/2019 14:45	WG1252689
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 14:45	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 14:45	WG1252689
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/20/2019 14:45	WG1252689
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/20/2019 14:45	WG1252689
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/20/2019 14:45	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 14:45	WG1252689
Vinyl chloride	U		0.118	0.500	1	03/20/2019 14:45	WG1252689
Xylenes, Total	U		0.316	1.50	1	03/20/2019 14:45	WG1252689
(S) Toluene-d8	*101*			*80.0-120*		*03/20/2019 14:45*	WG1252689
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/20/2019 14:45*	WG1252689
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/20/2019 14:45*	WG1252689

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	143 J+	B	31.6	100	1	03/18/2019 00:23	WG1250839
(S) a,a,a-Trifluorotoluene(FID)	*94.9*			*78.0-120*		*03/18/2019 00:23*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	34.5		1.05	25.0	1	03/20/2019 15:05	WG1252689
Acrylonitrile	U		0.873	5.00	1	03/20/2019 15:05	WG1252689
Benzene	0.159 J	J	0.0896	0.500	1	03/20/2019 15:05	WG1252689
Bromobenzene	U		0.133	0.500	1	03/20/2019 15:05	WG1252689
Bromodichloromethane	U		0.0800	0.500	1	03/20/2019 15:05	WG1252689
Bromochloromethane	U		0.145	0.500	1	03/20/2019 15:05	WG1252689
Bromoform	U		0.186	0.500	1	03/20/2019 15:05	WG1252689
Bromomethane	U		0.157	2.50	1	03/20/2019 15:05	WG1252689
n-Butylbenzene	U		0.143	0.500	1	03/20/2019 15:05	WG1252689
sec-Butylbenzene	U		0.134	0.500	1	03/20/2019 15:05	WG1252689
tert-Butylbenzene	U		0.183	0.500	1	03/20/2019 15:05	WG1252689
Carbon disulfide	1.55		0.101	0.500	1	03/20/2019 15:05	WG1252689
Carbon tetrachloride	U		0.159	0.500	1	03/20/2019 15:05	WG1252689
Chlorobenzene	U		0.140	0.500	1	03/20/2019 15:05	WG1252689
Chlorodibromomethane	U		0.128	0.500	1	03/20/2019 15:05	WG1252689
Chloroethane	10.4		0.141	2.50	1	03/20/2019 15:05	WG1252689
Chloroform	U		0.0860	0.500	1	03/20/2019 15:05	WG1252689
Chloromethane	U		0.153	1.25	1	03/20/2019 15:05	WG1252689
2-Chlorotoluene	U		0.111	0.500	1	03/20/2019 15:05	WG1252689
4-Chlorotoluene	U		0.0972	0.500	1	03/20/2019 15:05	WG1252689
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/20/2019 15:05	WG1252689
1,2-Dibromoethane	U		0.193	0.500	1	03/20/2019 15:05	WG1252689
Dibromomethane	U		0.117	0.500	1	03/20/2019 15:05	WG1252689
1,2-Dichlorobenzene	U		0.101	0.500	1	03/20/2019 15:05	WG1252689
1,3-Dichlorobenzene	U		0.130	0.500	1	03/20/2019 15:05	WG1252689
1,4-Dichlorobenzene	U		0.121	0.500	1	03/20/2019 15:05	WG1252689
Dichlorodifluoromethane	U		0.127	2.50	1	03/20/2019 15:05	WG1252689
1,1-Dichloroethane	U		0.114	0.500	1	03/20/2019 15:05	WG1252689
1,2-Dichloroethane	U		0.108	0.500	1	03/20/2019 15:05	WG1252689
1,1-Dichloroethene	U		0.188	0.500	1	03/20/2019 15:05	WG1252689
cis-1,2-Dichloroethene	196		0.0933	0.500	1	03/20/2019 15:05	WG1252689
trans-1,2-Dichloroethene	1.60		0.152	0.500	1	03/20/2019 15:05	WG1252689
1,2-Dichloropropane	U		0.190	0.500	1	03/20/2019 15:05	WG1252689
1,1-Dichloropropene	U		0.128	0.500	1	03/20/2019 15:05	WG1252689
1,3-Dichloropropane	U		0.147	1.00	1	03/20/2019 15:05	WG1252689
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/20/2019 15:05	WG1252689
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/20/2019 15:05	WG1252689
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/20/2019 15:05	WG1252689
2,2-Dichloropropane	U		0.0929	0.500	1	03/20/2019 15:05	WG1252689
Di-isopropyl ether	U		0.0924	0.500	1	03/20/2019 15:05	WG1252689
Ethylbenzene	4.88		0.158	0.500	1	03/20/2019 15:05	WG1252689
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/20/2019 15:05	WG1252689
2-Hexanone	U		0.757	5.00	1	03/20/2019 15:05	WG1252689
n-Hexane	0.589 J	J	0.305	5.00	1	03/20/2019 15:05	WG1252689
Iodomethane	U		0.377	10.0	1	03/20/2019 15:05	WG1252689
Isopropylbenzene	U		0.126	0.500	1	03/20/2019 15:05	WG1252689
p-Isopropyltoluene	U		0.138	0.500	1	03/20/2019 15:05	WG1252689
2-Butanone (MEK)	23.3		1.28	5.00	1	03/20/2019 15:05	WG1252689

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	03/20/2019 15:05	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 15:05	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 15:05	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 15:05	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 15:05	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 15:05	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 15:05	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 15:05	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 15:05	WG1252689
Tetrachloroethene	0.981		0.199	0.500	1	03/20/2019 15:05	WG1252689
Toluene	U		0.412	0.500	1	03/20/2019 15:05	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 15:05	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 15:05	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 15:05	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 15:05	WG1252689
Trichloroethene	1.36		0.153	0.500	1	03/20/2019 15:05	WG1252689
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 15:05	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 15:05	WG1252689
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/20/2019 15:05	WG1252689
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/20/2019 15:05	WG1252689
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/20/2019 15:05	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 15:05	WG1252689
Vinyl chloride	24.9		0.118	0.500	1	03/20/2019 15:05	WG1252689
Xylenes, Total	U		0.316	1.50	1	03/20/2019 15:05	WG1252689
(S) Toluene-d8	*97.5*			*80.0-120*		*03/20/2019 15:05*	WG1252689
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*03/20/2019 15:05*	WG1252689
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/20/2019 15:05*	WG1252689

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	319	J+	B	31.6	100	1	03/18/2019 00:46	WG1250839
(S) a,a,a-Trifluorotoluene(FID)	*95.2*				*78.0-120*		*03/18/2019 00:46*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.13	J	J	1.05	25.0	1	03/20/2019 15:25	WG1252689
Acrylonitrile	U			0.873	5.00	1	03/20/2019 15:25	WG1252689
Benzene	U			0.0896	0.500	1	03/20/2019 15:25	WG1252689
Bromobenzene	U			0.133	0.500	1	03/20/2019 15:25	WG1252689
Bromodichloromethane	U			0.0800	0.500	1	03/20/2019 15:25	WG1252689
Bromochloromethane	U			0.145	0.500	1	03/20/2019 15:25	WG1252689
Bromoform	U			0.186	0.500	1	03/20/2019 15:25	WG1252689
Bromomethane	U			0.157	2.50	1	03/20/2019 15:25	WG1252689
n-Butylbenzene	U			0.143	0.500	1	03/20/2019 15:25	WG1252689
sec-Butylbenzene	U			0.134	0.500	1	03/20/2019 15:25	WG1252689
tert-Butylbenzene	U			0.183	0.500	1	03/20/2019 15:25	WG1252689
Carbon disulfide	0.248	J	J	0.101	0.500	1	03/20/2019 15:25	WG1252689
Carbon tetrachloride	U			0.159	0.500	1	03/20/2019 15:25	WG1252689
Chlorobenzene	U			0.140	0.500	1	03/20/2019 15:25	WG1252689
Chlorodibromomethane	U			0.128	0.500	1	03/20/2019 15:25	WG1252689
Chloroethane	U			0.141	2.50	1	03/20/2019 15:25	WG1252689
Chloroform	0.436	J	J	0.0860	0.500	1	03/20/2019 15:25	WG1252689
Chloromethane	U			0.153	1.25	1	03/20/2019 15:25	WG1252689
2-Chlorotoluene	U			0.111	0.500	1	03/20/2019 15:25	WG1252689
4-Chlorotoluene	U			0.0972	0.500	1	03/20/2019 15:25	WG1252689
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	03/20/2019 15:25	WG1252689
1,2-Dibromoethane	U			0.193	0.500	1	03/20/2019 15:25	WG1252689
Dibromomethane	U			0.117	0.500	1	03/20/2019 15:25	WG1252689
1,2-Dichlorobenzene	U			0.101	0.500	1	03/20/2019 15:25	WG1252689
1,3-Dichlorobenzene	U			0.130	0.500	1	03/20/2019 15:25	WG1252689
1,4-Dichlorobenzene	U			0.121	0.500	1	03/20/2019 15:25	WG1252689
Dichlorodifluoromethane	U			0.127	2.50	1	03/20/2019 15:25	WG1252689
1,1-Dichloroethane	U			0.114	0.500	1	03/20/2019 15:25	WG1252689
1,2-Dichloroethane	U			0.108	0.500	1	03/20/2019 15:25	WG1252689
1,1-Dichloroethene	14.1			0.188	0.500	1	03/20/2019 15:25	WG1252689
cis-1,2-Dichloroethene	56.9			0.0933	0.500	1	03/20/2019 15:25	WG1252689
trans-1,2-Dichloroethene	2.87			0.152	0.500	1	03/20/2019 15:25	WG1252689
1,2-Dichloropropane	U			0.190	0.500	1	03/20/2019 15:25	WG1252689
1,1-Dichloropropene	U			0.128	0.500	1	03/20/2019 15:25	WG1252689
1,3-Dichloropropane	U			0.147	1.00	1	03/20/2019 15:25	WG1252689
cis-1,3-Dichloropropene	U			0.0976	0.500	1	03/20/2019 15:25	WG1252689
trans-1,3-Dichloropropene	U			0.222	0.500	1	03/20/2019 15:25	WG1252689
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	03/20/2019 15:25	WG1252689
2,2-Dichloropropane	U			0.0929	0.500	1	03/20/2019 15:25	WG1252689
Di-isopropyl ether	U			0.0924	0.500	1	03/20/2019 15:25	WG1252689
Ethylbenzene	U			0.158	0.500	1	03/20/2019 15:25	WG1252689
Hexachloro-1,3-butadiene	U			0.157	1.00	1	03/20/2019 15:25	WG1252689
2-Hexanone	U			0.757	5.00	1	03/20/2019 15:25	WG1252689
n-Hexane	U			0.305	5.00	1	03/20/2019 15:25	WG1252689
Iodomethane	U			0.377	10.0	1	03/20/2019 15:25	WG1252689
Isopropylbenzene	U			0.126	0.500	1	03/20/2019 15:25	WG1252689
p-Isopropyltoluene	U			0.138	0.500	1	03/20/2019 15:25	WG1252689
2-Butanone (MEK)	U			1.28	5.00	1	03/20/2019 15:25	WG1252689

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/20/2019 15:25	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 15:25	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 15:25	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 15:25	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 15:25	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 15:25	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 15:25	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 15:25	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 15:25	WG1252689
Tetrachloroethene	282		1.99	5.00	10	03/21/2019 21:39	WG1253202
Toluene	U		0.412	0.500	1	03/20/2019 15:25	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 15:25	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 15:25	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 15:25	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 15:25	WG1252689
Trichloroethene	334		1.53	5.00	10	03/21/2019 21:39	WG1253202
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 15:25	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 15:25	WG1252689
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/20/2019 15:25	WG1252689
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/20/2019 15:25	WG1252689
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/20/2019 15:25	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 15:25	WG1252689
Vinyl chloride	1.10		0.118	0.500	1	03/20/2019 15:25	WG1252689
Xylenes, Total	U		0.316	1.50	1	03/20/2019 15:25	WG1252689
(S) Toluene-d8	*103*			*80.0-120*		*03/20/2019 15:25*	WG1252689
(S) Toluene-d8	*106*			*80.0-120*		*03/21/2019 21:39*	WG1253202
(S) 4-Bromofluorobenzene	*99.3*			*77.0-126*		*03/20/2019 15:25*	WG1252689
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*03/21/2019 21:39*	WG1253202
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/20/2019 15:25*	WG1252689
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/21/2019 21:39*	WG1253202

JC 4/8/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	565 J+	B	31.6	100	1	03/18/2019 01:10	WG1250839
(S) a,a,a-Trifluorotoluene(FID)	*95.5*			*78.0-120*		*03/18/2019 01:10*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.27 J	J	1.05	25.0	1	03/20/2019 15:45	WG1252689
Acrylonitrile	U		0.873	5.00	1	03/20/2019 15:45	WG1252689
Benzene	U		0.0896	0.500	1	03/20/2019 15:45	WG1252689
Bromobenzene	U		0.133	0.500	1	03/20/2019 15:45	WG1252689
Bromodichloromethane	U		0.0800	0.500	1	03/20/2019 15:45	WG1252689
Bromochloromethane	U		0.145	0.500	1	03/20/2019 15:45	WG1252689
Bromoform	U		0.186	0.500	1	03/20/2019 15:45	WG1252689
Bromomethane	U		0.157	2.50	1	03/20/2019 15:45	WG1252689
n-Butylbenzene	U		0.143	0.500	1	03/20/2019 15:45	WG1252689
sec-Butylbenzene	U		0.134	0.500	1	03/20/2019 15:45	WG1252689
tert-Butylbenzene	U		0.183	0.500	1	03/20/2019 15:45	WG1252689
Carbon disulfide	1.07		0.101	0.500	1	03/20/2019 15:45	WG1252689
Carbon tetrachloride	U		0.159	0.500	1	03/20/2019 15:45	WG1252689
Chlorobenzene	U		0.140	0.500	1	03/20/2019 15:45	WG1252689
Chlorodibromomethane	U		0.128	0.500	1	03/20/2019 15:45	WG1252689
Chloroethane	U		0.141	2.50	1	03/20/2019 15:45	WG1252689
Chloroform	2.99		0.0860	0.500	1	03/20/2019 15:45	WG1252689
Chloromethane	U		0.153	1.25	1	03/20/2019 15:45	WG1252689
2-Chlorotoluene	U		0.111	0.500	1	03/20/2019 15:45	WG1252689
4-Chlorotoluene	U		0.0972	0.500	1	03/20/2019 15:45	WG1252689
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/20/2019 15:45	WG1252689
1,2-Dibromoethane	U		0.193	0.500	1	03/20/2019 15:45	WG1252689
Dibromomethane	U		0.117	0.500	1	03/20/2019 15:45	WG1252689
1,2-Dichlorobenzene	U		0.101	0.500	1	03/20/2019 15:45	WG1252689
1,3-Dichlorobenzene	U		0.130	0.500	1	03/20/2019 15:45	WG1252689
1,4-Dichlorobenzene	U		0.121	0.500	1	03/20/2019 15:45	WG1252689
Dichlorodifluoromethane	U		0.127	2.50	1	03/20/2019 15:45	WG1252689
1,1-Dichloroethane	U		0.114	0.500	1	03/20/2019 15:45	WG1252689
1,2-Dichloroethane	U		0.108	0.500	1	03/20/2019 15:45	WG1252689
1,1-Dichloroethene	8.58		0.188	0.500	1	03/20/2019 15:45	WG1252689
cis-1,2-Dichloroethene	529		0.933	5.00	10	03/21/2019 21:59	WG1253202
trans-1,2-Dichloroethene	4.24		0.152	0.500	1	03/20/2019 15:45	WG1252689
1,2-Dichloropropane	U		0.190	0.500	1	03/20/2019 15:45	WG1252689
1,1-Dichloropropene	U		0.128	0.500	1	03/20/2019 15:45	WG1252689
1,3-Dichloropropane	U		0.147	1.00	1	03/20/2019 15:45	WG1252689
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/20/2019 15:45	WG1252689
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/20/2019 15:45	WG1252689
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/20/2019 15:45	WG1252689
2,2-Dichloropropane	U		0.0929	0.500	1	03/20/2019 15:45	WG1252689
Di-isopropyl ether	U		0.0924	0.500	1	03/20/2019 15:45	WG1252689
Ethylbenzene	U		0.158	0.500	1	03/20/2019 15:45	WG1252689
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/20/2019 15:45	WG1252689
2-Hexanone	U		0.757	5.00	1	03/20/2019 15:45	WG1252689
n-Hexane	U		0.305	5.00	1	03/20/2019 15:45	WG1252689
Iodomethane	U		0.377	10.0	1	03/20/2019 15:45	WG1252689
Isopropylbenzene	U		0.126	0.500	1	03/20/2019 15:45	WG1252689
p-Isopropyltoluene	U		0.138	0.500	1	03/20/2019 15:45	WG1252689
2-Butanone (MEK)	U		1.28	5.00	1	03/20/2019 15:45	WG1252689

JC 4/8/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/20/2019 15:45	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 15:45	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 15:45	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 15:45	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 15:45	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 15:45	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 15:45	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 15:45	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 15:45	WG1252689
Tetrachloroethene	444		1.99	5.00	10	03/21/2019 21:59	WG1253202
Toluene	U		0.412	0.500	1	03/20/2019 15:45	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 15:45	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 15:45	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 15:45	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 15:45	WG1252689
Trichloroethene	327		1.53	5.00	10	03/21/2019 21:59	WG1253202
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 15:45	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 15:45	WG1252689
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/20/2019 15:45	WG1252689
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/20/2019 15:45	WG1252689
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/20/2019 15:45	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 15:45	WG1252689
Vinyl chloride	7.80		0.118	0.500	1	03/20/2019 15:45	WG1252689
Xylenes, Total	U		0.316	1.50	1	03/20/2019 15:45	WG1252689
(S) Toluene-d8	*101*			*80.0-120*		*03/20/2019 15:45*	WG1252689
(S) Toluene-d8	*108*			*80.0-120*		*03/21/2019 21:59*	WG1253202
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*		*03/20/2019 15:45*	WG1252689
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/21/2019 21:59*	WG1253202
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/20/2019 15:45*	WG1252689
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/21/2019 21:59*	WG1253202

JC 4/8/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/18/2019 01:34	WG1250839
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*78.0-120*		*03/18/2019 01:34*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	03/20/2019 16:04	WG1252689
Acrylonitrile	U		0.873	5.00	1	03/20/2019 16:04	WG1252689
Benzene	U		0.0896	0.500	1	03/20/2019 16:04	WG1252689
Bromobenzene	U		0.133	0.500	1	03/20/2019 16:04	WG1252689
Bromodichloromethane	U		0.0800	0.500	1	03/20/2019 16:04	WG1252689
Bromochloromethane	U		0.145	0.500	1	03/20/2019 16:04	WG1252689
Bromoform	U		0.186	0.500	1	03/20/2019 16:04	WG1252689
Bromomethane	U		0.157	2.50	1	03/20/2019 16:04	WG1252689
n-Butylbenzene	U		0.143	0.500	1	03/20/2019 16:04	WG1252689
sec-Butylbenzene	U		0.134	0.500	1	03/20/2019 16:04	WG1252689
tert-Butylbenzene	U		0.183	0.500	1	03/20/2019 16:04	WG1252689
Carbon disulfide	U		0.101	0.500	1	03/20/2019 16:04	WG1252689
Carbon tetrachloride	U		0.159	0.500	1	03/20/2019 16:04	WG1252689
Chlorobenzene	U		0.140	0.500	1	03/20/2019 16:04	WG1252689
Chlorodibromomethane	U		0.128	0.500	1	03/20/2019 16:04	WG1252689
Chloroethane	U		0.141	2.50	1	03/20/2019 16:04	WG1252689
Chloroform	U		0.0860	0.500	1	03/20/2019 16:04	WG1252689
Chloromethane	U		0.153	1.25	1	03/20/2019 16:04	WG1252689
2-Chlorotoluene	U		0.111	0.500	1	03/20/2019 16:04	WG1252689
4-Chlorotoluene	U		0.0972	0.500	1	03/20/2019 16:04	WG1252689
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/20/2019 16:04	WG1252689
1,2-Dibromoethane	U		0.193	0.500	1	03/20/2019 16:04	WG1252689
Dibromomethane	U		0.117	0.500	1	03/20/2019 16:04	WG1252689
1,2-Dichlorobenzene	U		0.101	0.500	1	03/20/2019 16:04	WG1252689
1,3-Dichlorobenzene	U		0.130	0.500	1	03/20/2019 16:04	WG1252689
1,4-Dichlorobenzene	U		0.121	0.500	1	03/20/2019 16:04	WG1252689
Dichlorodifluoromethane	U		0.127	2.50	1	03/20/2019 16:04	WG1252689
1,1-Dichloroethane	U		0.114	0.500	1	03/20/2019 16:04	WG1252689
1,2-Dichloroethane	U		0.108	0.500	1	03/20/2019 16:04	WG1252689
1,1-Dichloroethene	1.33		0.188	0.500	1	03/20/2019 16:04	WG1252689
cis-1,2-Dichloroethene	7.48		0.0933	0.500	1	03/21/2019 22:18	WG1253202
trans-1,2-Dichloroethene	0.483	J	0.152	0.500	1	03/20/2019 16:04	WG1252689
1,2-Dichloropropane	U		0.190	0.500	1	03/20/2019 16:04	WG1252689
1,1-Dichloropropene	U		0.128	0.500	1	03/20/2019 16:04	WG1252689
1,3-Dichloropropane	U		0.147	1.00	1	03/20/2019 16:04	WG1252689
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/20/2019 16:04	WG1252689
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/20/2019 16:04	WG1252689
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/20/2019 16:04	WG1252689
2,2-Dichloropropane	U		0.0929	0.500	1	03/20/2019 16:04	WG1252689
Di-isopropyl ether	U		0.0924	0.500	1	03/20/2019 16:04	WG1252689
Ethylbenzene	U		0.158	0.500	1	03/20/2019 16:04	WG1252689
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/20/2019 16:04	WG1252689
2-Hexanone	U		0.757	5.00	1	03/20/2019 16:04	WG1252689
n-Hexane	U		0.305	5.00	1	03/20/2019 16:04	WG1252689
Iodomethane	U		0.377	10.0	1	03/20/2019 16:04	WG1252689
Isopropylbenzene	U		0.126	0.500	1	03/20/2019 16:04	WG1252689
p-Isopropyltoluene	U		0.138	0.500	1	03/20/2019 16:04	WG1252689
2-Butanone (MEK)	U		1.28	5.00	1	03/20/2019 16:04	WG1252689

JC 4/8/18

MW133-031319

Collected date/time: 03/13/19 10:40

SAMPLE RESULTS - 07

L1079374

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/20/2019 16:04	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 16:04	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 16:04	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 16:04	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 16:04	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 16:04	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 16:04	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 16:04	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 16:04	WG1252689
Tetrachloroethene	4.45		0.199	0.500	1	03/21/2019 22:18	WG1253202
Toluene	U		0.412	0.500	1	03/20/2019 16:04	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 16:04	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 16:04	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 16:04	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 16:04	WG1252689
Trichloroethene	5.92		0.153	0.500	1	03/21/2019 22:18	WG1253202
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 16:04	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 16:04	WG1252689
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/20/2019 16:04	WG1252689
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/20/2019 16:04	WG1252689
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/20/2019 16:04	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 16:04	WG1252689
Vinyl chloride	10.8		0.118	0.500	1	03/20/2019 16:04	WG1252689
Xylenes, Total	U		0.316	1.50	1	03/20/2019 16:04	WG1252689
(S) Toluene-d8	*99.8*			*80.0-120*		*03/20/2019 16:04*	WG1252689
(S) Toluene-d8	*107*			*80.0-120*		*03/21/2019 22:18*	WG1253202
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/20/2019 16:04*	WG1252689
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*03/21/2019 22:18*	WG1253202
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/20/2019 16:04*	WG1252689
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/21/2019 22:18*	WG1253202

JC 4/8/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	7540	J+		31.6	100	1	03/18/2019 01:57	WG1250839
(S) a,a,a-Trifluorotoluene(FID)	*95.4*				*78.0-120*		*03/18/2019 01:57*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	7.76	J	J	1.05	25.0	1	03/20/2019 16:24	WG1252689
Acrylonitrile	U			0.873	5.00	1	03/20/2019 16:24	WG1252689
Benzene	0.165	J	J	0.0896	0.500	1	03/20/2019 16:24	WG1252689
Bromobenzene	U			0.133	0.500	1	03/20/2019 16:24	WG1252689
Bromodichloromethane	U			0.0800	0.500	1	03/20/2019 16:24	WG1252689
Bromochloromethane	U			0.145	0.500	1	03/20/2019 16:24	WG1252689
Bromoform	U			0.186	0.500	1	03/20/2019 16:24	WG1252689
Bromomethane	U			0.157	2.50	1	03/20/2019 16:24	WG1252689
n-Butylbenzene	U			0.143	0.500	1	03/20/2019 16:24	WG1252689
sec-Butylbenzene	U			0.134	0.500	1	03/20/2019 16:24	WG1252689
tert-Butylbenzene	U			0.183	0.500	1	03/20/2019 16:24	WG1252689
Carbon disulfide	1.63			0.101	0.500	1	03/20/2019 16:24	WG1252689
Carbon tetrachloride	U			0.159	0.500	1	03/20/2019 16:24	WG1252689
Chlorobenzene	U			0.140	0.500	1	03/20/2019 16:24	WG1252689
Chlorodibromomethane	U			0.128	0.500	1	03/20/2019 16:24	WG1252689
Chloroethane	2.94			0.141	2.50	1	03/20/2019 16:24	WG1252689
Chloroform	0.210	J	J	0.0860	0.500	1	03/20/2019 16:24	WG1252689
Chloromethane	U			0.153	1.25	1	03/20/2019 16:24	WG1252689
2-Chlorotoluene	U			0.111	0.500	1	03/20/2019 16:24	WG1252689
4-Chlorotoluene	U			0.0972	0.500	1	03/20/2019 16:24	WG1252689
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	03/20/2019 16:24	WG1252689
1,2-Dibromoethane	U			0.193	0.500	1	03/20/2019 16:24	WG1252689
Dibromomethane	U			0.117	0.500	1	03/20/2019 16:24	WG1252689
1,2-Dichlorobenzene	U			0.101	0.500	1	03/20/2019 16:24	WG1252689
1,3-Dichlorobenzene	U			0.130	0.500	1	03/20/2019 16:24	WG1252689
1,4-Dichlorobenzene	U			0.121	0.500	1	03/20/2019 16:24	WG1252689
Dichlorodifluoromethane	U			0.127	2.50	1	03/20/2019 16:24	WG1252689
1,1-Dichloroethane	U			0.114	0.500	1	03/20/2019 16:24	WG1252689
1,2-Dichloroethane	U			0.108	0.500	1	03/20/2019 16:24	WG1252689
1,1-Dichloroethene	19.1			0.188	0.500	1	03/20/2019 16:24	WG1252689
cis-1,2-Dichloroethene	15000			23.3	125	250	03/21/2019 23:18	WG1253202
trans-1,2-Dichloroethene	50.5			0.152	0.500	1	03/20/2019 16:24	WG1252689
1,2-Dichloropropane	U			0.190	0.500	1	03/20/2019 16:24	WG1252689
1,1-Dichloropropene	U			0.128	0.500	1	03/20/2019 16:24	WG1252689
1,3-Dichloropropane	U			0.147	1.00	1	03/20/2019 16:24	WG1252689
cis-1,3-Dichloropropene	U			0.0976	0.500	1	03/20/2019 16:24	WG1252689
trans-1,3-Dichloropropene	U			0.222	0.500	1	03/20/2019 16:24	WG1252689
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	03/20/2019 16:24	WG1252689
2,2-Dichloropropane	U			0.0929	0.500	1	03/20/2019 16:24	WG1252689
Di-isopropyl ether	U			0.0924	0.500	1	03/20/2019 16:24	WG1252689
Ethylbenzene	0.185	J	J	0.158	0.500	1	03/20/2019 16:24	WG1252689
Hexachloro-1,3-butadiene	U			0.157	1.00	1	03/20/2019 16:24	WG1252689
2-Hexanone	U			0.757	5.00	1	03/20/2019 16:24	WG1252689
n-Hexane	U			0.305	5.00	1	03/20/2019 16:24	WG1252689
Iodomethane	U			0.377	10.0	1	03/20/2019 16:24	WG1252689
Isopropylbenzene	U			0.126	0.500	1	03/20/2019 16:24	WG1252689
p-Isopropyltoluene	U			0.138	0.500	1	03/20/2019 16:24	WG1252689
2-Butanone (MEK)	12.8			1.28	5.00	1	03/20/2019 16:24	WG1252689

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/20/2019 16:24	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 16:24	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 16:24	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 16:24	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 16:24	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 16:24	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 16:24	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 16:24	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 16:24	WG1252689
Tetrachloroethene	36.0		0.199	0.500	1	03/20/2019 16:24	WG1252689
Toluene	U		0.412	0.500	1	03/20/2019 16:24	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 16:24	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 16:24	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 16:24	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 16:24	WG1252689
Trichloroethene	262		38.2	125	250	03/21/2019 23:18	WG1253202
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 16:24	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 16:24	WG1252689
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/20/2019 16:24	WG1252689
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/20/2019 16:24	WG1252689
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/20/2019 16:24	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 16:24	WG1252689
Vinyl chloride	479		29.5	125	250	03/21/2019 23:18	WG1253202
Xylenes, Total	U		0.316	1.50	1	03/20/2019 16:24	WG1252689
(S) Toluene-d8	*99.0*			*80.0-120*		*03/20/2019 16:24*	WG1252689
(S) Toluene-d8	*105*			*80.0-120*		*03/21/2019 23:18*	WG1253202
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*03/20/2019 16:24*	WG1252689
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*03/21/2019 23:18*	WG1253202
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/20/2019 16:24*	WG1252689
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/21/2019 23:18*	WG1253202

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	32700 J+		790	2500	25	03/19/2019 20:25	WG1251474
(S) a,a,a-Trifluorotoluene(FID)	*91.1*			*78.0-120*		*03/19/2019 20:25*	WG1251474

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	30.5		1.05	25.0	1	03/20/2019 16:44	WG1252689
Acrylonitrile	U		0.873	5.00	1	03/20/2019 16:44	WG1252689
Benzene	0.496 J	J	0.0896	0.500	1	03/20/2019 16:44	WG1252689
Bromobenzene	U		0.133	0.500	1	03/20/2019 16:44	WG1252689
Bromodichloromethane	U		0.0800	0.500	1	03/20/2019 16:44	WG1252689
Bromochloromethane	U		0.145	0.500	1	03/20/2019 16:44	WG1252689
Bromoform	U		0.186	0.500	1	03/20/2019 16:44	WG1252689
Bromomethane	U		0.157	2.50	1	03/20/2019 16:44	WG1252689
n-Butylbenzene	U		0.143	0.500	1	03/20/2019 16:44	WG1252689
sec-Butylbenzene	U		0.134	0.500	1	03/20/2019 16:44	WG1252689
tert-Butylbenzene	U		0.183	0.500	1	03/20/2019 16:44	WG1252689
Carbon disulfide	0.707		0.101	0.500	1	03/20/2019 16:44	WG1252689
Carbon tetrachloride	U		0.159	0.500	1	03/20/2019 16:44	WG1252689
Chlorobenzene	U		0.140	0.500	1	03/20/2019 16:44	WG1252689
Chlorodibromomethane	U		0.128	0.500	1	03/20/2019 16:44	WG1252689
Chloroethane	2.69		0.141	2.50	1	03/20/2019 16:44	WG1252689
Chloroform	U		0.0860	0.500	1	03/20/2019 16:44	WG1252689
Chloromethane	U		0.153	1.25	1	03/20/2019 16:44	WG1252689
2-Chlorotoluene	U		0.111	0.500	1	03/20/2019 16:44	WG1252689
4-Chlorotoluene	U		0.0972	0.500	1	03/20/2019 16:44	WG1252689
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/20/2019 16:44	WG1252689
1,2-Dibromoethane	U		0.193	0.500	1	03/20/2019 16:44	WG1252689
Dibromomethane	U		0.117	0.500	1	03/20/2019 16:44	WG1252689
1,2-Dichlorobenzene	U		0.101	0.500	1	03/20/2019 16:44	WG1252689
1,3-Dichlorobenzene	U		0.130	0.500	1	03/20/2019 16:44	WG1252689
1,4-Dichlorobenzene	U		0.121	0.500	1	03/20/2019 16:44	WG1252689
Dichlorodifluoromethane	U		0.127	2.50	1	03/20/2019 16:44	WG1252689
1,1-Dichloroethane	0.347 J	J	0.114	0.500	1	03/20/2019 16:44	WG1252689
1,2-Dichloroethane	U		0.108	0.500	1	03/20/2019 16:44	WG1252689
1,1-Dichloroethene	173		0.188	0.500	1	03/20/2019 16:44	WG1252689
cis-1,2-Dichloroethene	37200		93.3	500	1000	03/21/2019 23:38	WG1253202
trans-1,2-Dichloroethene	74.3		0.152	0.500	1	03/20/2019 16:44	WG1252689
1,2-Dichloropropane	U		0.190	0.500	1	03/20/2019 16:44	WG1252689
1,1-Dichloropropene	U		0.128	0.500	1	03/20/2019 16:44	WG1252689
1,3-Dichloropropane	U		0.147	1.00	1	03/20/2019 16:44	WG1252689
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/20/2019 16:44	WG1252689
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/20/2019 16:44	WG1252689
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/20/2019 16:44	WG1252689
2,2-Dichloropropane	U		0.0929	0.500	1	03/20/2019 16:44	WG1252689
Di-isopropyl ether	U		0.0924	0.500	1	03/20/2019 16:44	WG1252689
Ethylbenzene	0.329 J	J	0.158	0.500	1	03/20/2019 16:44	WG1252689
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/20/2019 16:44	WG1252689
2-Hexanone	U		0.757	5.00	1	03/20/2019 16:44	WG1252689
n-Hexane	U		0.305	5.00	1	03/20/2019 16:44	WG1252689
Iodomethane	U		0.377	10.0	1	03/20/2019 16:44	WG1252689
Isopropylbenzene	U		0.126	0.500	1	03/20/2019 16:44	WG1252689
p-Isopropyltoluene	U		0.138	0.500	1	03/20/2019 16:44	WG1252689
2-Butanone (MEK)	6.73		1.28	5.00	1	03/20/2019 16:44	WG1252689

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/20/2019 16:44	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 16:44	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 16:44	WG1252689
Naphthalene	0.327 J	J	0.174	2.50	1	03/20/2019 16:44	WG1252689
n-Propylbenzene	0.322 J	J	0.162	0.500	1	03/20/2019 16:44	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 16:44	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 16:44	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 16:44	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 16:44	WG1252689
Tetrachloroethene	57300		199	500	1000	03/21/2019 23:38	WG1253202
Toluene	2.43		0.412	0.500	1	03/20/2019 16:44	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 16:44	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 16:44	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 16:44	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 16:44	WG1252689
Trichloroethene	8150		153	500	1000	03/21/2019 23:38	WG1253202
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 16:44	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 16:44	WG1252689
1,2,4-Trimethylbenzene	2.09		0.123	0.500	1	03/20/2019 16:44	WG1252689
1,2,3-Trimethylbenzene	1.07		0.0739	0.500	1	03/20/2019 16:44	WG1252689
1,3,5-Trimethylbenzene	0.655		0.124	0.500	1	03/20/2019 16:44	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 16:44	WG1252689
Vinyl chloride	706		118	500	1000	03/21/2019 23:38	WG1253202
Xylenes, Total	1.90		0.316	1.50	1	03/20/2019 16:44	WG1252689
(S) Toluene-d8	*102*			*80.0-120*		*03/20/2019 16:44*	WG1252689
(S) Toluene-d8	*105*			*80.0-120*		*03/21/2019 23:38*	WG1253202
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/20/2019 16:44*	WG1252689
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/21/2019 23:38*	WG1253202
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/20/2019 16:44*	WG1252689
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/21/2019 23:38*	WG1253202

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MW149-031319

Collected date/time: 03/13/19 13:45

SAMPLE RESULTS - 10

L1079374

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	15300 J+		316	1000	10	03/19/2019 20:01	WG1251474
(S) a,a,a-Trifluorotoluene(FID)	*90.6*			*78.0-120*		*03/19/2019 20:01*	WG1251474

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	17.2 J	J	1.05	25.0	1	03/20/2019 17:03	WG1252689
Acrylonitrile	U		0.873	5.00	1	03/20/2019 17:03	WG1252689
Benzene	0.222 J	J	0.0896	0.500	1	03/20/2019 17:03	WG1252689
Bromobenzene	U		0.133	0.500	1	03/20/2019 17:03	WG1252689
Bromodichloromethane	U		0.0800	0.500	1	03/20/2019 17:03	WG1252689
Bromochloromethane	U		0.145	0.500	1	03/20/2019 17:03	WG1252689
Bromoform	U		0.186	0.500	1	03/20/2019 17:03	WG1252689
Bromomethane	U		0.157	2.50	1	03/20/2019 17:03	WG1252689
n-Butylbenzene	U		0.143	0.500	1	03/20/2019 17:03	WG1252689
sec-Butylbenzene	U		0.134	0.500	1	03/20/2019 17:03	WG1252689
tert-Butylbenzene	U		0.183	0.500	1	03/20/2019 17:03	WG1252689
Carbon disulfide	1.38		0.101	0.500	1	03/20/2019 17:03	WG1252689
Carbon tetrachloride	U		0.159	0.500	1	03/20/2019 17:03	WG1252689
Chlorobenzene	U		0.140	0.500	1	03/20/2019 17:03	WG1252689
Chlorodibromomethane	U		0.128	0.500	1	03/20/2019 17:03	WG1252689
Chloroethane	14.1		0.141	2.50	1	03/20/2019 17:03	WG1252689
Chloroform	0.270 J	J	0.0860	0.500	1	03/20/2019 17:03	WG1252689
Chloromethane	U		0.153	1.25	1	03/20/2019 17:03	WG1252689
2-Chlorotoluene	U		0.111	0.500	1	03/20/2019 17:03	WG1252689
4-Chlorotoluene	U		0.0972	0.500	1	03/20/2019 17:03	WG1252689
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/20/2019 17:03	WG1252689
1,2-Dibromoethane	U		0.193	0.500	1	03/20/2019 17:03	WG1252689
Dibromomethane	U		0.117	0.500	1	03/20/2019 17:03	WG1252689
1,2-Dichlorobenzene	U		0.101	0.500	1	03/20/2019 17:03	WG1252689
1,3-Dichlorobenzene	U		0.130	0.500	1	03/20/2019 17:03	WG1252689
1,4-Dichlorobenzene	U		0.121	0.500	1	03/20/2019 17:03	WG1252689
Dichlorodifluoromethane	U		0.127	2.50	1	03/20/2019 17:03	WG1252689
1,1-Dichloroethane	U		0.114	0.500	1	03/20/2019 17:03	WG1252689
1,2-Dichloroethane	U		0.108	0.500	1	03/20/2019 17:03	WG1252689
1,1-Dichloroethene	34.0		0.188	0.500	1	03/20/2019 17:03	WG1252689
cis-1,2-Dichloroethene	30800		46.6	250	500	03/21/2019 23:58	WG1253202
trans-1,2-Dichloroethene	129		0.152	0.500	1	03/20/2019 17:03	WG1252689
1,2-Dichloropropane	U		0.190	0.500	1	03/20/2019 17:03	WG1252689
1,1-Dichloropropene	U		0.128	0.500	1	03/20/2019 17:03	WG1252689
1,3-Dichloropropane	U		0.147	1.00	1	03/20/2019 17:03	WG1252689
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/20/2019 17:03	WG1252689
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/20/2019 17:03	WG1252689
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/20/2019 17:03	WG1252689
2,2-Dichloropropane	U		0.0929	0.500	1	03/20/2019 17:03	WG1252689
Di-isopropyl ether	U		0.0924	0.500	1	03/20/2019 17:03	WG1252689
Ethylbenzene	0.843		0.158	0.500	1	03/20/2019 17:03	WG1252689
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/20/2019 17:03	WG1252689
2-Hexanone	U		0.757	5.00	1	03/20/2019 17:03	WG1252689
n-Hexane	U		0.305	5.00	1	03/20/2019 17:03	WG1252689
Iodomethane	U		0.377	10.0	1	03/20/2019 17:03	WG1252689
Isopropylbenzene	U		0.126	0.500	1	03/20/2019 17:03	WG1252689
p-Isopropyltoluene	U		0.138	0.500	1	03/20/2019 17:03	WG1252689
2-Butanone (MEK)	44.9		1.28	5.00	1	03/20/2019 17:03	WG1252689

JC 4/8/18

MW149-031319

Collected date/time: 03/13/19 13:45

SAMPLE RESULTS - 10

L1079374

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/20/2019 17:03	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 17:03	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 17:03	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 17:03	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 17:03	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 17:03	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 17:03	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 17:03	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 17:03	WG1252689
Tetrachloroethene	2630		99.5	250	500	03/21/2019 23:58	WG1253202
Toluene	0.862		0.412	0.500	1	03/20/2019 17:03	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 17:03	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 17:03	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 17:03	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 17:03	WG1252689
Trichloroethene	2770		76.5	250	500	03/21/2019 23:58	WG1253202
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 17:03	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 17:03	WG1252689
1,2,4-Trimethylbenzene	0.524		0.123	0.500	1	03/20/2019 17:03	WG1252689
1,2,3-Trimethylbenzene	0.338 J	J	0.0739	0.500	1	03/20/2019 17:03	WG1252689
1,3,5-Trimethylbenzene	0.159 J	J	0.124	0.500	1	03/20/2019 17:03	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 17:03	WG1252689
Vinyl chloride	285		59.0	250	500	03/21/2019 23:58	WG1253202
Xylenes, Total	0.490 J	J	0.316	1.50	1	03/20/2019 17:03	WG1252689
(S) Toluene-d8	*101*			*80.0-120*		*03/20/2019 17:03*	WG1252689
(S) Toluene-d8	*104*			*80.0-120*		*03/21/2019 23:58*	WG1253202
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*03/20/2019 17:03*	WG1252689
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/21/2019 23:58*	WG1253202
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/20/2019 17:03*	WG1252689
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/21/2019 23:58*	WG1253202

JC 4/8/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	124 J+	B	31.6	100	1	03/19/2019 19:14	WG1251474
(S) a,a,a-Trifluorotoluene(FID)	*90.7*			*78.0-120*		*03/19/2019 19:14*	WG1251474

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	9.26 J	J	1.05	25.0	1	03/20/2019 17:23	WG1252689
Acrylonitrile	U		0.873	5.00	1	03/20/2019 17:23	WG1252689
Benzene	U		0.0896	0.500	1	03/20/2019 17:23	WG1252689
Bromobenzene	U		0.133	0.500	1	03/20/2019 17:23	WG1252689
Bromodichloromethane	U		0.0800	0.500	1	03/20/2019 17:23	WG1252689
Bromochloromethane	U		0.145	0.500	1	03/20/2019 17:23	WG1252689
Bromoform	U		0.186	0.500	1	03/20/2019 17:23	WG1252689
Bromomethane	U		0.157	2.50	1	03/20/2019 17:23	WG1252689
n-Butylbenzene	U		0.143	0.500	1	03/20/2019 17:23	WG1252689
sec-Butylbenzene	U		0.134	0.500	1	03/20/2019 17:23	WG1252689
tert-Butylbenzene	U		0.183	0.500	1	03/20/2019 17:23	WG1252689
Carbon disulfide	0.232 J	J	0.101	0.500	1	03/20/2019 17:23	WG1252689
Carbon tetrachloride	U		0.159	0.500	1	03/20/2019 17:23	WG1252689
Chlorobenzene	U		0.140	0.500	1	03/20/2019 17:23	WG1252689
Chlorodibromomethane	U		0.128	0.500	1	03/20/2019 17:23	WG1252689
Chloroethane	U		0.141	2.50	1	03/20/2019 17:23	WG1252689
Chloroform	U		0.0860	0.500	1	03/20/2019 17:23	WG1252689
Chloromethane	U		0.153	1.25	1	03/20/2019 17:23	WG1252689
2-Chlorotoluene	U		0.111	0.500	1	03/20/2019 17:23	WG1252689
4-Chlorotoluene	U		0.0972	0.500	1	03/20/2019 17:23	WG1252689
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/20/2019 17:23	WG1252689
1,2-Dibromoethane	U		0.193	0.500	1	03/20/2019 17:23	WG1252689
Dibromomethane	U		0.117	0.500	1	03/20/2019 17:23	WG1252689
1,2-Dichlorobenzene	U		0.101	0.500	1	03/20/2019 17:23	WG1252689
1,3-Dichlorobenzene	U		0.130	0.500	1	03/20/2019 17:23	WG1252689
1,4-Dichlorobenzene	U		0.121	0.500	1	03/20/2019 17:23	WG1252689
Dichlorodifluoromethane	U		0.127	2.50	1	03/20/2019 17:23	WG1252689
1,1-Dichloroethane	U		0.114	0.500	1	03/20/2019 17:23	WG1252689
1,2-Dichloroethane	U		0.108	0.500	1	03/20/2019 17:23	WG1252689
1,1-Dichloroethene	4.72		0.188	0.500	1	03/20/2019 17:23	WG1252689
cis-1,2-Dichloroethene	83.0		0.0933	0.500	1	03/22/2019 00:17	WG1253202
trans-1,2-Dichloroethene	1.93		0.152	0.500	1	03/20/2019 17:23	WG1252689
1,2-Dichloropropane	U		0.190	0.500	1	03/20/2019 17:23	WG1252689
1,1-Dichloropropene	U		0.128	0.500	1	03/20/2019 17:23	WG1252689
1,3-Dichloropropane	U		0.147	1.00	1	03/20/2019 17:23	WG1252689
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/20/2019 17:23	WG1252689
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/20/2019 17:23	WG1252689
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/20/2019 17:23	WG1252689
2,2-Dichloropropane	U		0.0929	0.500	1	03/20/2019 17:23	WG1252689
Di-isopropyl ether	U		0.0924	0.500	1	03/20/2019 17:23	WG1252689
Ethylbenzene	U		0.158	0.500	1	03/20/2019 17:23	WG1252689
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/20/2019 17:23	WG1252689
2-Hexanone	U		0.757	5.00	1	03/20/2019 17:23	WG1252689
n-Hexane	U		0.305	5.00	1	03/20/2019 17:23	WG1252689
Iodomethane	U		0.377	10.0	1	03/20/2019 17:23	WG1252689
Isopropylbenzene	U		0.126	0.500	1	03/20/2019 17:23	WG1252689
p-Isopropyltoluene	U		0.138	0.500	1	03/20/2019 17:23	WG1252689
2-Butanone (MEK)	2.04 J	J	1.28	5.00	1	03/20/2019 17:23	WG1252689

JC 4/8/18

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/20/2019 17:23	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 17:23	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 17:23	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 17:23	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 17:23	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 17:23	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 17:23	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 17:23	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 17:23	WG1252689
Tetrachloroethene	31.6		0.199	0.500	1	03/22/2019 00:17	WG1253202
Toluene	0.455 J	J	0.412	0.500	1	03/20/2019 17:23	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 17:23	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 17:23	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 17:23	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 17:23	WG1252689
Trichloroethene	75.7		0.153	0.500	1	03/22/2019 00:17	WG1253202
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 17:23	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 17:23	WG1252689
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/20/2019 17:23	WG1252689
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/20/2019 17:23	WG1252689
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/20/2019 17:23	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 17:23	WG1252689
Vinyl chloride	25.9		0.118	0.500	1	03/22/2019 00:17	WG1253202
Xylenes, Total	U		0.316	1.50	1	03/20/2019 17:23	WG1252689
(S) Toluene-d8	*99.6*			*80.0-120*		*03/20/2019 17:23*	WG1252689
(S) Toluene-d8	*104*			*80.0-120*		*03/22/2019 00:17*	WG1253202
(S) 4-Bromofluorobenzene	*99.5*			*77.0-126*		*03/20/2019 17:23*	WG1252689
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/22/2019 00:17*	WG1253202
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/20/2019 17:23*	WG1252689
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/22/2019 00:17*	WG1253202

JC 4/8/18

MW138-031419
Collected date/time: 03/14/19 10:45

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/19/2019 19:38	WG1251474
(S) a,a,a-Trifluorotoluene(FID)	*90.4*			*78.0-120*		*03/19/2019 19:38*	WG1251474

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	03/20/2019 17:42	WG1252689
Acrylonitrile	U		0.873	5.00	1	03/20/2019 17:42	WG1252689
Benzene	U		0.0896	0.500	1	03/20/2019 17:42	WG1252689
Bromobenzene	U		0.133	0.500	1	03/20/2019 17:42	WG1252689
Bromodichloromethane	U		0.0800	0.500	1	03/20/2019 17:42	WG1252689
Bromochloromethane	U		0.145	0.500	1	03/20/2019 17:42	WG1252689
Bromoform	U		0.186	0.500	1	03/20/2019 17:42	WG1252689
Bromomethane	U		0.157	2.50	1	03/20/2019 17:42	WG1252689
n-Butylbenzene	U		0.143	0.500	1	03/20/2019 17:42	WG1252689
sec-Butylbenzene	U		0.134	0.500	1	03/20/2019 17:42	WG1252689
tert-Butylbenzene	U		0.183	0.500	1	03/20/2019 17:42	WG1252689
Carbon disulfide	0.286 J	J	0.101	0.500	1	03/20/2019 17:42	WG1252689
Carbon tetrachloride	U		0.159	0.500	1	03/20/2019 17:42	WG1252689
Chlorobenzene	U		0.140	0.500	1	03/20/2019 17:42	WG1252689
Chlorodibromomethane	U		0.128	0.500	1	03/20/2019 17:42	WG1252689
Chloroethane	U		0.141	2.50	1	03/20/2019 17:42	WG1252689
Chloroform	U		0.0860	0.500	1	03/20/2019 17:42	WG1252689
Chloromethane	U		0.153	1.25	1	03/20/2019 17:42	WG1252689
2-Chlorotoluene	U		0.111	0.500	1	03/20/2019 17:42	WG1252689
4-Chlorotoluene	U		0.0972	0.500	1	03/20/2019 17:42	WG1252689
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/20/2019 17:42	WG1252689
1,2-Dibromoethane	U		0.193	0.500	1	03/20/2019 17:42	WG1252689
Dibromomethane	U		0.117	0.500	1	03/20/2019 17:42	WG1252689
1,2-Dichlorobenzene	U		0.101	0.500	1	03/20/2019 17:42	WG1252689
1,3-Dichlorobenzene	U		0.130	0.500	1	03/20/2019 17:42	WG1252689
1,4-Dichlorobenzene	U		0.121	0.500	1	03/20/2019 17:42	WG1252689
Dichlorodifluoromethane	U		0.127	2.50	1	03/20/2019 17:42	WG1252689
1,1-Dichloroethane	U		0.114	0.500	1	03/20/2019 17:42	WG1252689
1,2-Dichloroethane	U		0.108	0.500	1	03/20/2019 17:42	WG1252689
1,1-Dichloroethene	U		0.188	0.500	1	03/20/2019 17:42	WG1252689
cis-1,2-Dichloroethene	0.262 J	J	0.0933	0.500	1	03/22/2019 00:37	WG1253202
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/20/2019 17:42	WG1252689
1,2-Dichloropropane	U		0.190	0.500	1	03/20/2019 17:42	WG1252689
1,1-Dichloropropene	U		0.128	0.500	1	03/20/2019 17:42	WG1252689
1,3-Dichloropropane	U		0.147	1.00	1	03/20/2019 17:42	WG1252689
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/20/2019 17:42	WG1252689
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/20/2019 17:42	WG1252689
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/20/2019 17:42	WG1252689
2,2-Dichloropropane	U		0.0929	0.500	1	03/20/2019 17:42	WG1252689
Di-isopropyl ether	U		0.0924	0.500	1	03/20/2019 17:42	WG1252689
Ethylbenzene	U		0.158	0.500	1	03/20/2019 17:42	WG1252689
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/20/2019 17:42	WG1252689
2-Hexanone	U		0.757	5.00	1	03/20/2019 17:42	WG1252689
n-Hexane	U		0.305	5.00	1	03/20/2019 17:42	WG1252689
Iodomethane	U		0.377	10.0	1	03/20/2019 17:42	WG1252689
Isopropylbenzene	U		0.126	0.500	1	03/20/2019 17:42	WG1252689
p-Isopropyltoluene	U		0.138	0.500	1	03/20/2019 17:42	WG1252689
2-Butanone (MEK)	U		1.28	5.00	1	03/20/2019 17:42	WG1252689

JC 4/8/18

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/20/2019 17:42	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 17:42	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 17:42	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 17:42	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 17:42	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 17:42	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 17:42	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 17:42	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 17:42	WG1252689
Tetrachloroethene	1.49		0.199	0.500	1	03/22/2019 00:37	WG1253202
Toluene	U		0.412	0.500	1	03/20/2019 17:42	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 17:42	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 17:42	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 17:42	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 17:42	WG1252689
Trichloroethene	0.167 J	J	0.153	0.500	1	03/22/2019 00:37	WG1253202
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 17:42	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 17:42	WG1252689
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/20/2019 17:42	WG1252689
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/20/2019 17:42	WG1252689
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/20/2019 17:42	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 17:42	WG1252689
Vinyl chloride	U		0.118	0.500	1	03/20/2019 17:42	WG1252689
Xylenes, Total	U		0.316	1.50	1	03/20/2019 17:42	WG1252689
(S) Toluene-d8	*101*			*80.0-120*		*03/20/2019 17:42*	WG1252689
(S) Toluene-d8	*105*			*80.0-120*		*03/22/2019 00:37*	WG1253202
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/20/2019 17:42*	WG1252689
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/22/2019 00:37*	WG1253202
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/20/2019 17:42*	WG1252689
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/22/2019 00:37*	WG1253202

JC 4/8/18

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	50.4	B J	31.6	100	1	03/17/2019 21:13	WG1250839
(S) a,a,a-Trifluorotoluene(FID)	*93.8*			*78.0-120*		*03/17/2019 21:13*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	03/20/2019 13:45	WG1252689
Acrylonitrile	U		0.873	5.00	1	03/20/2019 13:45	WG1252689
Benzene	U		0.0896	0.500	1	03/20/2019 13:45	WG1252689
Bromobenzene	U		0.133	0.500	1	03/20/2019 13:45	WG1252689
Bromodichloromethane	U		0.0800	0.500	1	03/20/2019 13:45	WG1252689
Bromochloromethane	U		0.145	0.500	1	03/20/2019 13:45	WG1252689
Bromoform	U		0.186	0.500	1	03/20/2019 13:45	WG1252689
Bromomethane	U		0.157	2.50	1	03/20/2019 13:45	WG1252689
n-Butylbenzene	U		0.143	0.500	1	03/20/2019 13:45	WG1252689
sec-Butylbenzene	U		0.134	0.500	1	03/20/2019 13:45	WG1252689
tert-Butylbenzene	U		0.183	0.500	1	03/20/2019 13:45	WG1252689
Carbon disulfide	U		0.101	0.500	1	03/20/2019 13:45	WG1252689
Carbon tetrachloride	U		0.159	0.500	1	03/20/2019 13:45	WG1252689
Chlorobenzene	U		0.140	0.500	1	03/20/2019 13:45	WG1252689
Chlorodibromomethane	U		0.128	0.500	1	03/20/2019 13:45	WG1252689
Chloroethane	U		0.141	2.50	1	03/20/2019 13:45	WG1252689
Chloroform	U		0.0860	0.500	1	03/20/2019 13:45	WG1252689
Chloromethane	U		0.153	1.25	1	03/20/2019 13:45	WG1252689
2-Chlorotoluene	U		0.111	0.500	1	03/20/2019 13:45	WG1252689
4-Chlorotoluene	U		0.0972	0.500	1	03/20/2019 13:45	WG1252689
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/20/2019 13:45	WG1252689
1,2-Dibromoethane	U		0.193	0.500	1	03/20/2019 13:45	WG1252689
Dibromomethane	U		0.117	0.500	1	03/20/2019 13:45	WG1252689
1,2-Dichlorobenzene	U		0.101	0.500	1	03/20/2019 13:45	WG1252689
1,3-Dichlorobenzene	U		0.130	0.500	1	03/20/2019 13:45	WG1252689
1,4-Dichlorobenzene	U		0.121	0.500	1	03/20/2019 13:45	WG1252689
Dichlorodifluoromethane	U		0.127	2.50	1	03/20/2019 13:45	WG1252689
1,1-Dichloroethane	U		0.114	0.500	1	03/20/2019 13:45	WG1252689
1,2-Dichloroethane	U		0.108	0.500	1	03/20/2019 13:45	WG1252689
1,1-Dichloroethene	U		0.188	0.500	1	03/20/2019 13:45	WG1252689
cis-1,2-Dichloroethene	U		0.0933	0.500	1	03/20/2019 13:45	WG1252689
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/20/2019 13:45	WG1252689
1,2-Dichloropropane	U		0.190	0.500	1	03/20/2019 13:45	WG1252689
1,1-Dichloropropene	U		0.128	0.500	1	03/20/2019 13:45	WG1252689
1,3-Dichloropropane	U		0.147	1.00	1	03/20/2019 13:45	WG1252689
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/20/2019 13:45	WG1252689
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/20/2019 13:45	WG1252689
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/20/2019 13:45	WG1252689
2,2-Dichloropropane	U		0.0929	0.500	1	03/20/2019 13:45	WG1252689
Di-isopropyl ether	U		0.0924	0.500	1	03/20/2019 13:45	WG1252689
Ethylbenzene	U		0.158	0.500	1	03/20/2019 13:45	WG1252689
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/20/2019 13:45	WG1252689
2-Hexanone	U		0.757	5.00	1	03/20/2019 13:45	WG1252689
n-Hexane	U		0.305	5.00	1	03/20/2019 13:45	WG1252689
Iodomethane	U		0.377	10.0	1	03/20/2019 13:45	WG1252689
Isopropylbenzene	U		0.126	0.500	1	03/20/2019 13:45	WG1252689
p-Isopropyltoluene	U		0.138	0.500	1	03/20/2019 13:45	WG1252689
2-Butanone (MEK)	U		1.28	5.00	1	03/20/2019 13:45	WG1252689

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/20/2019 13:45	WG1252689
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/20/2019 13:45	WG1252689
Methyl tert-butyl ether	U		0.102	0.500	1	03/20/2019 13:45	WG1252689
Naphthalene	U		0.174	2.50	1	03/20/2019 13:45	WG1252689
n-Propylbenzene	U		0.162	0.500	1	03/20/2019 13:45	WG1252689
Styrene	U		0.117	0.500	1	03/20/2019 13:45	WG1252689
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/20/2019 13:45	WG1252689
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/20/2019 13:45	WG1252689
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/20/2019 13:45	WG1252689
Tetrachloroethene	U		0.199	0.500	1	03/20/2019 13:45	WG1252689
Toluene	U		0.412	0.500	1	03/20/2019 13:45	WG1252689
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/20/2019 13:45	WG1252689
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/20/2019 13:45	WG1252689
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/20/2019 13:45	WG1252689
1,1,2-Trichloroethane	U		0.186	0.500	1	03/20/2019 13:45	WG1252689
Trichloroethene	U		0.153	0.500	1	03/20/2019 13:45	WG1252689
Trichlorofluoromethane	U		0.130	2.50	1	03/20/2019 13:45	WG1252689
1,2,3-Trichloropropane	U		0.247	2.50	1	03/20/2019 13:45	WG1252689
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/20/2019 13:45	WG1252689
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/20/2019 13:45	WG1252689
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/20/2019 13:45	WG1252689
Vinyl acetate	U		0.645	5.00	1	03/20/2019 13:45	WG1252689
Vinyl chloride	U		0.118	0.500	1	03/20/2019 13:45	WG1252689
Xylenes, Total	U		0.316	1.50	1	03/20/2019 13:45	WG1252689
(S) Toluene-d8	*103*			*80.0-120*		*03/20/2019 13:45*	WG1252689
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/20/2019 13:45*	WG1252689
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/20/2019 13:45*	WG1252689

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/19/2019 08:36	WG1251425
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*78.0-120*		*03/19/2019 08:36*	WG1251425

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	52.6		1.05	25.0	1	03/22/2019 06:17	WG1252994
Acrylonitrile	U		0.873	5.00	1	03/22/2019 06:17	WG1252994
Benzene	0.152 J	J	0.0896	0.500	1	03/22/2019 06:17	WG1252994
Bromobenzene	U		0.133	0.500	1	03/22/2019 06:17	WG1252994
Bromodichloromethane	U		0.0800	0.500	1	03/22/2019 06:17	WG1252994
Bromochloromethane	U		0.145	0.500	1	03/22/2019 06:17	WG1252994
Bromoform	U		0.186	0.500	1	03/22/2019 06:17	WG1252994
Bromomethane	U		0.157	2.50	1	03/22/2019 06:17	WG1252994
n-Butylbenzene	U		0.143	0.500	1	03/22/2019 06:17	WG1252994
sec-Butylbenzene	U		0.134	0.500	1	03/22/2019 06:17	WG1252994
tert-Butylbenzene	U		0.183	0.500	1	03/22/2019 06:17	WG1252994
Carbon disulfide	U		0.101	0.500	1	03/22/2019 06:17	WG1252994
Carbon tetrachloride	U		0.159	0.500	1	03/22/2019 06:17	WG1252994
Chlorobenzene	U		0.140	0.500	1	03/22/2019 06:17	WG1252994
Chlorodibromomethane	U		0.128	0.500	1	03/22/2019 06:17	WG1252994
Chloroethane	0.386 J	J	0.141	2.50	1	03/22/2019 06:17	WG1252994
Chloroform	U		0.0860	0.500	1	03/22/2019 06:17	WG1252994
Chloromethane	U		0.153	1.25	1	03/22/2019 06:17	WG1252994
2-Chlorotoluene	U		0.111	0.500	1	03/22/2019 06:17	WG1252994
4-Chlorotoluene	U		0.0972	0.500	1	03/22/2019 06:17	WG1252994
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/22/2019 06:17	WG1252994
1,2-Dibromoethane	U		0.193	0.500	1	03/22/2019 06:17	WG1252994
Dibromomethane	U		0.117	0.500	1	03/22/2019 06:17	WG1252994
1,2-Dichlorobenzene	U		0.101	0.500	1	03/22/2019 06:17	WG1252994
1,3-Dichlorobenzene	U		0.130	0.500	1	03/22/2019 06:17	WG1252994
1,4-Dichlorobenzene	U		0.121	0.500	1	03/22/2019 06:17	WG1252994
Dichlorodifluoromethane	U		0.127	2.50	1	03/22/2019 06:17	WG1252994
1,1-Dichloroethane	U		0.114	0.500	1	03/22/2019 06:17	WG1252994
1,2-Dichloroethane	U		0.108	0.500	1	03/22/2019 06:17	WG1252994
1,1-Dichloroethene	U		0.188	0.500	1	03/22/2019 06:17	WG1252994
cis-1,2-Dichloroethene	0.250 J	J	0.0933	0.500	1	03/22/2019 14:29	WG1254059
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/22/2019 06:17	WG1252994
1,2-Dichloropropane	U		0.190	0.500	1	03/22/2019 06:17	WG1252994
1,1-Dichloropropene	U		0.128	0.500	1	03/22/2019 06:17	WG1252994
1,3-Dichloropropane	U		0.147	1.00	1	03/22/2019 06:17	WG1252994
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/22/2019 06:17	WG1252994
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/22/2019 06:17	WG1252994
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/22/2019 06:17	WG1252994
2,2-Dichloropropane	U		0.0929	0.500	1	03/22/2019 06:17	WG1252994
Di-isopropyl ether	U		0.0924	0.500	1	03/22/2019 06:17	WG1252994
Ethylbenzene	U		0.158	0.500	1	03/22/2019 06:17	WG1252994
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/22/2019 06:17	WG1252994
2-Hexanone	1.26 J	J	0.757	5.00	1	03/22/2019 06:17	WG1252994
n-Hexane	U		0.305	5.00	1	03/22/2019 06:17	WG1252994
Iodomethane	U		0.377	10.0	1	03/22/2019 06:17	WG1252994
Isopropylbenzene	U		0.126	0.500	1	03/22/2019 06:17	WG1252994
p-Isopropyltoluene	U		0.138	0.500	1	03/22/2019 06:17	WG1252994
2-Butanone (MEK)	25.4		1.28	5.00	1	03/22/2019 06:17	WG1252994

JC 4/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	03/22/2019 06:17	WG1252994
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/22/2019 06:17	WG1252994
Methyl tert-butyl ether	U		0.102	0.500	1	03/22/2019 06:17	WG1252994
Naphthalene	U		0.174	2.50	1	03/22/2019 06:17	WG1252994
n-Propylbenzene	U		0.162	0.500	1	03/22/2019 06:17	WG1252994
Styrene	0.145 J	J	0.117	0.500	1	03/22/2019 06:17	WG1252994
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/22/2019 06:17	WG1252994
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/22/2019 06:17	WG1252994
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/22/2019 06:17	WG1252994
Tetrachloroethene	U		0.199	0.500	1	03/22/2019 06:17	WG1252994
Toluene	U		0.412	0.500	1	03/22/2019 06:17	WG1252994
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/22/2019 06:17	WG1252994
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/22/2019 06:17	WG1252994
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/22/2019 06:17	WG1252994
1,1,2-Trichloroethane	U		0.186	0.500	1	03/22/2019 06:17	WG1252994
Trichloroethene	U		0.153	0.500	1	03/22/2019 14:29	WG1254059
Trichlorofluoromethane	U		0.130	2.50	1	03/22/2019 06:17	WG1252994
1,2,3-Trichloropropane	U		0.247	2.50	1	03/22/2019 06:17	WG1252994
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/22/2019 06:17	WG1252994
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/22/2019 06:17	WG1252994
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/22/2019 06:17	WG1252994
Vinyl acetate	U UJ	J0 J3	0.645	5.00	1	03/22/2019 06:17	WG1252994
Vinyl chloride	U		0.118	0.500	1	03/22/2019 06:17	WG1252994
Xylenes, Total	U		0.316	1.50	1	03/22/2019 06:17	WG1252994
(S) Toluene-d8	*102*			*80.0-120*		*03/22/2019 06:17*	WG1252994
(S) Toluene-d8	*107*			*80.0-120*		*03/22/2019 14:29*	WG1254059
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/22/2019 06:17*	WG1252994
(S) 4-Bromofluorobenzene	*96.3*			*77.0-126*		*03/22/2019 14:29*	WG1254059
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*03/22/2019 06:17*	WG1252994
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/22/2019 14:29*	WG1254059

JC 4/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

W-MW-01-031119

Collected date/time: 03/11/19 12:00

SAMPLE RESULTS - 02

L1079439

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/19/2019 09:00	WG1251425
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*78.0-120*		*03/19/2019 09:00*	WG1251425

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	03/22/2019 06:37	WG1252994
Acrylonitrile	U		0.873	5.00	1	03/22/2019 06:37	WG1252994
Benzene	U		0.0896	0.500	1	03/22/2019 06:37	WG1252994
Bromobenzene	U		0.133	0.500	1	03/22/2019 06:37	WG1252994
Bromodichloromethane	U		0.0800	0.500	1	03/22/2019 06:37	WG1252994
Bromochloromethane	U		0.145	0.500	1	03/22/2019 06:37	WG1252994
Bromoform	U		0.186	0.500	1	03/22/2019 06:37	WG1252994
Bromomethane	U		0.157	2.50	1	03/22/2019 06:37	WG1252994
n-Butylbenzene	U		0.143	0.500	1	03/22/2019 06:37	WG1252994
sec-Butylbenzene	U		0.134	0.500	1	03/22/2019 06:37	WG1252994
tert-Butylbenzene	U		0.183	0.500	1	03/22/2019 06:37	WG1252994
Carbon disulfide	U		0.101	0.500	1	03/22/2019 06:37	WG1252994
Carbon tetrachloride	U		0.159	0.500	1	03/22/2019 06:37	WG1252994
Chlorobenzene	U		0.140	0.500	1	03/22/2019 06:37	WG1252994
Chlorodibromomethane	U		0.128	0.500	1	03/22/2019 06:37	WG1252994
Chloroethane	U		0.141	2.50	1	03/22/2019 06:37	WG1252994
Chloroform	U		0.0860	0.500	1	03/22/2019 06:37	WG1252994
Chloromethane	U		0.153	1.25	1	03/22/2019 06:37	WG1252994
2-Chlorotoluene	U		0.111	0.500	1	03/22/2019 06:37	WG1252994
4-Chlorotoluene	U		0.0972	0.500	1	03/22/2019 06:37	WG1252994
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/22/2019 06:37	WG1252994
1,2-Dibromoethane	U		0.193	0.500	1	03/22/2019 06:37	WG1252994
Dibromomethane	U		0.117	0.500	1	03/22/2019 06:37	WG1252994
1,2-Dichlorobenzene	U		0.101	0.500	1	03/22/2019 06:37	WG1252994
1,3-Dichlorobenzene	U		0.130	0.500	1	03/22/2019 06:37	WG1252994
1,4-Dichlorobenzene	U		0.121	0.500	1	03/22/2019 06:37	WG1252994
Dichlorodifluoromethane	U		0.127	2.50	1	03/22/2019 06:37	WG1252994
1,1-Dichloroethane	U		0.114	0.500	1	03/22/2019 06:37	WG1252994
1,2-Dichloroethane	U		0.108	0.500	1	03/22/2019 06:37	WG1252994
1,1-Dichloroethene	U		0.188	0.500	1	03/22/2019 06:37	WG1252994
cis-1,2-Dichloroethene	0.396 J	J	0.0933	0.500	1	03/22/2019 14:48	WG1254059
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/22/2019 06:37	WG1252994
1,2-Dichloropropane	U		0.190	0.500	1	03/22/2019 06:37	WG1252994
1,1-Dichloropropene	U		0.128	0.500	1	03/22/2019 06:37	WG1252994
1,3-Dichloropropane	U		0.147	1.00	1	03/22/2019 06:37	WG1252994
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/22/2019 06:37	WG1252994
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/22/2019 06:37	WG1252994
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/22/2019 06:37	WG1252994
2,2-Dichloropropane	U		0.0929	0.500	1	03/22/2019 06:37	WG1252994
Di-isopropyl ether	U		0.0924	0.500	1	03/22/2019 06:37	WG1252994
Ethylbenzene	U		0.158	0.500	1	03/22/2019 06:37	WG1252994
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/22/2019 06:37	WG1252994
2-Hexanone	U		0.757	5.00	1	03/22/2019 06:37	WG1252994
n-Hexane	U		0.305	5.00	1	03/22/2019 06:37	WG1252994
Iodomethane	U		0.377	10.0	1	03/22/2019 06:37	WG1252994
Isopropylbenzene	U		0.126	0.500	1	03/22/2019 06:37	WG1252994
p-Isopropyltoluene	U		0.138	0.500	1	03/22/2019 06:37	WG1252994
2-Butanone (MEK)	U		1.28	5.00	1	03/22/2019 06:37	WG1252994

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/22/2019 06:37	WG1252994
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/22/2019 06:37	WG1252994
Methyl tert-butyl ether	U		0.102	0.500	1	03/22/2019 06:37	WG1252994
Naphthalene	U		0.174	2.50	1	03/22/2019 06:37	WG1252994
n-Propylbenzene	U		0.162	0.500	1	03/22/2019 06:37	WG1252994
Styrene	U		0.117	0.500	1	03/22/2019 06:37	WG1252994
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/22/2019 06:37	WG1252994
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/22/2019 06:37	WG1252994
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/22/2019 06:37	WG1252994
Tetrachloroethene	0.520		0.199	0.500	1	03/22/2019 06:37	WG1252994
Toluene	U		0.412	0.500	1	03/22/2019 06:37	WG1252994
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/22/2019 06:37	WG1252994
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/22/2019 06:37	WG1252994
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/22/2019 06:37	WG1252994
1,1,2-Trichloroethane	U		0.186	0.500	1	03/22/2019 06:37	WG1252994
Trichloroethene	0.301 J	J	0.153	0.500	1	03/22/2019 14:48	WG1254059
Trichlorofluoromethane	U		0.130	2.50	1	03/22/2019 06:37	WG1252994
1,2,3-Trichloropropane	U		0.247	2.50	1	03/22/2019 06:37	WG1252994
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/22/2019 06:37	WG1252994
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/22/2019 06:37	WG1252994
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/22/2019 06:37	WG1252994
Vinyl acetate	U UJ	J0 J3	0.645	5.00	1	03/22/2019 06:37	WG1252994
Vinyl chloride	7.24		0.118	0.500	1	03/22/2019 06:37	WG1252994
Xylenes, Total	U		0.316	1.50	1	03/22/2019 06:37	WG1252994
(S) Toluene-d8	*98.6*			*80.0-120*		*03/22/2019 06:37*	WG1252994
(S) Toluene-d8	*110*			*80.0-120*		*03/22/2019 14:48*	WG1254059
(S) 4-Bromofluorobenzene	*98.0*			*77.0-126*		*03/22/2019 06:37*	WG1252994
(S) 4-Bromofluorobenzene	*92.6*			*77.0-126*		*03/22/2019 14:48*	WG1254059
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*03/22/2019 06:37*	WG1252994
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*03/22/2019 14:48*	WG1254059

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/19/2019 09:25	WG1251425
(S) a,a,a-Trifluorotoluene(FID)	*97.7*			*78.0-120*		*03/19/2019 09:25*	WG1251425

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	03/22/2019 06:57	WG1252994	
Acrylonitrile	U		0.873	5.00	1	03/22/2019 06:57	WG1252994	
Benzene	U		0.0896	0.500	1	03/22/2019 06:57	WG1252994	
Bromobenzene	U		0.133	0.500	1	03/22/2019 06:57	WG1252994	
Bromodichloromethane	U		0.0800	0.500	1	03/22/2019 06:57	WG1252994	
Bromochloromethane	U		0.145	0.500	1	03/22/2019 06:57	WG1252994	
Bromoform	U		0.186	0.500	1	03/22/2019 06:57	WG1252994	
Bromomethane	U		0.157	2.50	1	03/22/2019 06:57	WG1252994	
n-Butylbenzene	U		0.143	0.500	1	03/22/2019 06:57	WG1252994	
sec-Butylbenzene	U		0.134	0.500	1	03/22/2019 06:57	WG1252994	JC 4/7/19
tert-Butylbenzene	U		0.183	0.500	1	03/22/2019 06:57	WG1252994	
Carbon disulfide	U		0.101	0.500	1	03/22/2019 06:57	WG1252994	
Carbon tetrachloride	U		0.159	0.500	1	03/22/2019 06:57	WG1252994	
Chlorobenzene	U		0.140	0.500	1	03/22/2019 06:57	WG1252994	
Chlorodibromomethane	U		0.128	0.500	1	03/22/2019 06:57	WG1252994	
Chloroethane	U		0.141	2.50	1	03/22/2019 06:57	WG1252994	
Chloroform	U		0.0860	0.500	1	03/22/2019 06:57	WG1252994	
Chloromethane	U		0.153	1.25	1	03/22/2019 06:57	WG1252994	
2-Chlorotoluene	U		0.111	0.500	1	03/22/2019 06:57	WG1252994	
4-Chlorotoluene	U		0.0972	0.500	1	03/22/2019 06:57	WG1252994	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/22/2019 06:57	WG1252994	
1,2-Dibromoethane	U		0.193	0.500	1	03/22/2019 06:57	WG1252994	
Dibromomethane	U		0.117	0.500	1	03/22/2019 06:57	WG1252994	
1,2-Dichlorobenzene	U		0.101	0.500	1	03/22/2019 06:57	WG1252994	
1,3-Dichlorobenzene	U		0.130	0.500	1	03/22/2019 06:57	WG1252994	
1,4-Dichlorobenzene	U		0.121	0.500	1	03/22/2019 06:57	WG1252994	
Dichlorodifluoromethane	U		0.127	2.50	1	03/22/2019 06:57	WG1252994	
1,1-Dichloroethane	U		0.114	0.500	1	03/22/2019 06:57	WG1252994	
1,2-Dichloroethane	U		0.108	0.500	1	03/22/2019 06:57	WG1252994	
1,1-Dichloroethene	U		0.188	0.500	1	03/22/2019 06:57	WG1252994	
cis-1,2-Dichloroethene	22.8		0.0933	0.500	1	03/22/2019 06:57	WG1252994	
trans-1,2-Dichloroethene	0.302 J	J	0.152	0.500	1	03/22/2019 06:57	WG1252994	
1,2-Dichloropropane	U		0.190	0.500	1	03/22/2019 06:57	WG1252994	
1,1-Dichloropropene	U		0.128	0.500	1	03/22/2019 06:57	WG1252994	
1,3-Dichloropropane	U		0.147	1.00	1	03/22/2019 06:57	WG1252994	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/22/2019 06:57	WG1252994	
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/22/2019 06:57	WG1252994	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/22/2019 06:57	WG1252994	
2,2-Dichloropropane	U		0.0929	0.500	1	03/22/2019 06:57	WG1252994	
Di-isopropyl ether	U		0.0924	0.500	1	03/22/2019 06:57	WG1252994	
Ethylbenzene	U		0.158	0.500	1	03/22/2019 06:57	WG1252994	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/22/2019 06:57	WG1252994	
2-Hexanone	U		0.757	5.00	1	03/22/2019 06:57	WG1252994	
n-Hexane	U		0.305	5.00	1	03/22/2019 06:57	WG1252994	
Iodomethane	U		0.377	10.0	1	03/22/2019 06:57	WG1252994	
Isopropylbenzene	U		0.126	0.500	1	03/22/2019 06:57	WG1252994	
p-Isopropyltoluene	U		0.138	0.500	1	03/22/2019 06:57	WG1252994	
2-Butanone (MEK)	U		1.28	5.00	1	03/22/2019 06:57	WG1252994	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/22/2019 06:57	WG1252994
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/22/2019 06:57	WG1252994
Methyl tert-butyl ether	U		0.102	0.500	1	03/22/2019 06:57	WG1252994
Naphthalene	U		0.174	2.50	1	03/22/2019 06:57	WG1252994
n-Propylbenzene	U		0.162	0.500	1	03/22/2019 06:57	WG1252994
Styrene	U		0.117	0.500	1	03/22/2019 06:57	WG1252994
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/22/2019 06:57	WG1252994
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/22/2019 06:57	WG1252994
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/22/2019 06:57	WG1252994
Tetrachloroethene	7.03		0.199	0.500	1	03/22/2019 06:57	WG1252994
Toluene	U		0.412	0.500	1	03/22/2019 06:57	WG1252994
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/22/2019 06:57	WG1252994
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/22/2019 06:57	WG1252994
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/22/2019 06:57	WG1252994
1,1,2-Trichloroethane	U		0.186	0.500	1	03/22/2019 06:57	WG1252994
Trichloroethene	1.22		0.153	0.500	1	03/22/2019 15:07	WG1254059
Trichlorofluoromethane	U		0.130	2.50	1	03/22/2019 06:57	WG1252994
1,2,3-Trichloropropane	U		0.247	2.50	1	03/22/2019 06:57	WG1252994
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/22/2019 06:57	WG1252994
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/22/2019 06:57	WG1252994
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/22/2019 06:57	WG1252994
Vinyl acetate	U	UJ J0 J3	0.645	5.00	1	03/22/2019 06:57	WG1252994
Vinyl chloride	57.3		0.118	0.500	1	03/22/2019 06:57	WG1252994
Xylenes, Total	U		0.316	1.50	1	03/22/2019 06:57	WG1252994
(S) Toluene-d8	*99.9*			*80.0-120*		*03/22/2019 06:57*	WG1252994
(S) Toluene-d8	*108*			*80.0-120*		*03/22/2019 15:07*	WG1254059
(S) 4-Bromofluorobenzene	*97.4*			*77.0-126*		*03/22/2019 06:57*	WG1252994
(S) 4-Bromofluorobenzene	*91.8*			*77.0-126*		*03/22/2019 15:07*	WG1254059
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/22/2019 06:57*	WG1252994
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*03/22/2019 15:07*	WG1254059

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W-MW-02-031119

Collected date/time: 03/11/19 14:45

SAMPLE RESULTS - 04

L1079439

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/19/2019 09:48	WG1251425
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*78.0-120*		*03/19/2019 09:48*	WG1251425

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.26 J	J	1.05	25.0	1	03/22/2019 07:17	WG1252994
Acrylonitrile	U		0.873	5.00	1	03/22/2019 07:17	WG1252994
Benzene	U		0.0896	0.500	1	03/22/2019 07:17	WG1252994
Bromobenzene	U		0.133	0.500	1	03/22/2019 07:17	WG1252994
Bromodichloromethane	U		0.0800	0.500	1	03/22/2019 07:17	WG1252994
Bromochloromethane	U		0.145	0.500	1	03/22/2019 07:17	WG1252994
Bromoform	U		0.186	0.500	1	03/22/2019 07:17	WG1252994
Bromomethane	U		0.157	2.50	1	03/22/2019 07:17	WG1252994
n-Butylbenzene	U		0.143	0.500	1	03/22/2019 07:17	WG1252994
sec-Butylbenzene	U		0.134	0.500	1	03/22/2019 07:17	WG1252994
tert-Butylbenzene	U		0.183	0.500	1	03/22/2019 07:17	WG1252994
Carbon disulfide	U		0.101	0.500	1	03/22/2019 07:17	WG1252994
Carbon tetrachloride	U		0.159	0.500	1	03/22/2019 07:17	WG1252994
Chlorobenzene	U		0.140	0.500	1	03/22/2019 07:17	WG1252994
Chlorodibromomethane	U		0.128	0.500	1	03/22/2019 07:17	WG1252994
Chloroethane	U		0.141	2.50	1	03/22/2019 07:17	WG1252994
Chloroform	U		0.0860	0.500	1	03/22/2019 07:17	WG1252994
Chloromethane	U		0.153	1.25	1	03/22/2019 07:17	WG1252994
2-Chlorotoluene	U		0.111	0.500	1	03/22/2019 07:17	WG1252994
4-Chlorotoluene	U		0.0972	0.500	1	03/22/2019 07:17	WG1252994
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/22/2019 07:17	WG1252994
1,2-Dibromoethane	U		0.193	0.500	1	03/22/2019 07:17	WG1252994
Dibromomethane	U		0.117	0.500	1	03/22/2019 07:17	WG1252994
1,2-Dichlorobenzene	U		0.101	0.500	1	03/22/2019 07:17	WG1252994
1,3-Dichlorobenzene	U		0.130	0.500	1	03/22/2019 07:17	WG1252994
1,4-Dichlorobenzene	U		0.121	0.500	1	03/22/2019 07:17	WG1252994
Dichlorodifluoromethane	U		0.127	2.50	1	03/22/2019 07:17	WG1252994
1,1-Dichloroethane	U		0.114	0.500	1	03/22/2019 07:17	WG1252994
1,2-Dichloroethane	U		0.108	0.500	1	03/22/2019 07:17	WG1252994
1,1-Dichloroethene	U		0.188	0.500	1	03/22/2019 07:17	WG1252994
cis-1,2-Dichloroethene	2.41		0.0933	0.500	1	03/22/2019 07:17	WG1252994
trans-1,2-Dichloroethene	0.316 J	J	0.152	0.500	1	03/22/2019 07:17	WG1252994
1,2-Dichloropropane	U		0.190	0.500	1	03/22/2019 07:17	WG1252994
1,1-Dichloropropene	U		0.128	0.500	1	03/22/2019 07:17	WG1252994
1,3-Dichloropropane	U		0.147	1.00	1	03/22/2019 07:17	WG1252994
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/22/2019 07:17	WG1252994
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/22/2019 07:17	WG1252994
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/22/2019 07:17	WG1252994
2,2-Dichloropropane	U		0.0929	0.500	1	03/22/2019 07:17	WG1252994
Di-isopropyl ether	U		0.0924	0.500	1	03/22/2019 07:17	WG1252994
Ethylbenzene	U		0.158	0.500	1	03/22/2019 07:17	WG1252994
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/22/2019 07:17	WG1252994
2-Hexanone	U		0.757	5.00	1	03/22/2019 07:17	WG1252994
n-Hexane	U		0.305	5.00	1	03/22/2019 07:17	WG1252994
Iodomethane	U		0.377	10.0	1	03/22/2019 07:17	WG1252994
Isopropylbenzene	U		0.126	0.500	1	03/22/2019 07:17	WG1252994
p-Isopropyltoluene	U		0.138	0.500	1	03/22/2019 07:17	WG1252994
2-Butanone (MEK)	U		1.28	5.00	1	03/22/2019 07:17	WG1252994

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/22/2019 07:17	WG1252994
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/22/2019 07:17	WG1252994
Methyl tert-butyl ether	U		0.102	0.500	1	03/22/2019 07:17	WG1252994
Naphthalene	U		0.174	2.50	1	03/22/2019 07:17	WG1252994
n-Propylbenzene	U		0.162	0.500	1	03/22/2019 07:17	WG1252994
Styrene	U		0.117	0.500	1	03/22/2019 07:17	WG1252994
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/22/2019 07:17	WG1252994
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/22/2019 07:17	WG1252994
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/22/2019 07:17	WG1252994
Tetrachloroethene	U		0.199	0.500	1	03/22/2019 07:17	WG1252994
Toluene	1.12		0.412	0.500	1	03/22/2019 07:17	WG1252994
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/22/2019 07:17	WG1252994
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/22/2019 07:17	WG1252994
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/22/2019 07:17	WG1252994
1,1,2-Trichloroethane	U		0.186	0.500	1	03/22/2019 07:17	WG1252994
Trichloroethene	U		0.153	0.500	1	03/22/2019 15:27	WG1254059
Trichlorofluoromethane	U		0.130	2.50	1	03/22/2019 07:17	WG1252994
1,2,3-Trichloropropane	U		0.247	2.50	1	03/22/2019 07:17	WG1252994
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/22/2019 07:17	WG1252994
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/22/2019 07:17	WG1252994
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/22/2019 07:17	WG1252994
Vinyl acetate	U UJ	J0 J3	0.645	5.00	1	03/22/2019 07:17	WG1252994
Vinyl chloride	2.43		0.118	0.500	1	03/22/2019 07:17	WG1252994
Xylenes, Total	U		0.316	1.50	1	03/22/2019 07:17	WG1252994
(S) Toluene-d8	*100*			*80.0-120*		*03/22/2019 07:17*	WG1252994
(S) Toluene-d8	*106*			*80.0-120*		*03/22/2019 15:27*	WG1254059
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/22/2019 07:17*	WG1252994
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*		*03/22/2019 15:27*	WG1254059
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*03/22/2019 07:17*	WG1252994
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/22/2019 15:27*	WG1254059

JC 4/7/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/19/2019 10:12	WG1251425
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*78.0-120*		*03/19/2019 10:12*	WG1251425

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.24 J	J	1.05	25.0	1	03/22/2019 08:43	WG1252994
Acrylonitrile	U		0.873	5.00	1	03/22/2019 08:43	WG1252994
Benzene	U		0.0896	0.500	1	03/22/2019 08:43	WG1252994
Bromobenzene	U		0.133	0.500	1	03/22/2019 08:43	WG1252994
Bromodichloromethane	U		0.0800	0.500	1	03/22/2019 08:43	WG1252994
Bromochloromethane	U		0.145	0.500	1	03/22/2019 08:43	WG1252994
Bromoform	U		0.186	0.500	1	03/22/2019 08:43	WG1252994
Bromomethane	U		0.157	2.50	1	03/22/2019 08:43	WG1252994
n-Butylbenzene	U		0.143	0.500	1	03/22/2019 08:43	WG1252994
sec-Butylbenzene	U		0.134	0.500	1	03/22/2019 08:43	WG1252994
tert-Butylbenzene	U		0.183	0.500	1	03/22/2019 08:43	WG1252994
Carbon disulfide	U		0.101	0.500	1	03/22/2019 08:43	WG1252994
Carbon tetrachloride	U		0.159	0.500	1	03/22/2019 08:43	WG1252994
Chlorobenzene	U		0.140	0.500	1	03/22/2019 08:43	WG1252994
Chlorodibromomethane	U		0.128	0.500	1	03/22/2019 08:43	WG1252994
Chloroethane	U		0.141	2.50	1	03/22/2019 08:43	WG1252994
Chloroform	U		0.0860	0.500	1	03/22/2019 08:43	WG1252994
Chloromethane	U		0.153	1.25	1	03/22/2019 08:43	WG1252994
2-Chlorotoluene	U		0.111	0.500	1	03/22/2019 08:43	WG1252994
4-Chlorotoluene	U		0.0972	0.500	1	03/22/2019 08:43	WG1252994
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/22/2019 08:43	WG1252994
1,2-Dibromoethane	U		0.193	0.500	1	03/22/2019 08:43	WG1252994
Dibromomethane	U		0.117	0.500	1	03/22/2019 08:43	WG1252994
1,2-Dichlorobenzene	U		0.101	0.500	1	03/22/2019 08:43	WG1252994
1,3-Dichlorobenzene	U		0.130	0.500	1	03/22/2019 08:43	WG1252994
1,4-Dichlorobenzene	U		0.121	0.500	1	03/22/2019 08:43	WG1252994
Dichlorodifluoromethane	U		0.127	2.50	1	03/22/2019 08:43	WG1252994
1,1-Dichloroethane	U		0.114	0.500	1	03/22/2019 08:43	WG1252994
1,2-Dichloroethane	U		0.108	0.500	1	03/22/2019 08:43	WG1252994
1,1-Dichloroethene	U		0.188	0.500	1	03/22/2019 08:43	WG1252994
cis-1,2-Dichloroethene	1.30		0.0933	0.500	1	03/22/2019 08:43	WG1252994
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/22/2019 08:43	WG1252994
1,2-Dichloropropane	U		0.190	0.500	1	03/22/2019 08:43	WG1252994
1,1-Dichloropropene	U		0.128	0.500	1	03/22/2019 08:43	WG1252994
1,3-Dichloropropane	U		0.147	1.00	1	03/22/2019 08:43	WG1252994
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/22/2019 08:43	WG1252994
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/22/2019 08:43	WG1252994
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/22/2019 08:43	WG1252994
2,2-Dichloropropane	U		0.0929	0.500	1	03/22/2019 08:43	WG1252994
Di-isopropyl ether	U		0.0924	0.500	1	03/22/2019 08:43	WG1252994
Ethylbenzene	U		0.158	0.500	1	03/22/2019 08:43	WG1252994
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/22/2019 08:43	WG1252994
2-Hexanone	U		0.757	5.00	1	03/22/2019 08:43	WG1252994
n-Hexane	U		0.305	5.00	1	03/22/2019 08:43	WG1252994
Iodomethane	U		0.377	10.0	1	03/22/2019 08:43	WG1252994
Isopropylbenzene	U		0.126	0.500	1	03/22/2019 08:43	WG1252994
p-Isopropyltoluene	U		0.138	0.500	1	03/22/2019 08:43	WG1252994
2-Butanone (MEK)	U		1.28	5.00	1	03/22/2019 08:43	WG1252994

JC 4/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/22/2019 08:43	WG1252994
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/22/2019 08:43	WG1252994
Methyl tert-butyl ether	U		0.102	0.500	1	03/22/2019 08:43	WG1252994
Naphthalene	U		0.174	2.50	1	03/22/2019 08:43	WG1252994
n-Propylbenzene	U		0.162	0.500	1	03/22/2019 08:43	WG1252994
Styrene	U		0.117	0.500	1	03/22/2019 08:43	WG1252994
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/22/2019 08:43	WG1252994
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/22/2019 08:43	WG1252994
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/22/2019 08:43	WG1252994
Tetrachloroethene	0.701		0.199	0.500	1	03/22/2019 08:43	WG1252994
Toluene	U		0.412	0.500	1	03/22/2019 08:43	WG1252994
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/22/2019 08:43	WG1252994
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/22/2019 08:43	WG1252994
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/22/2019 08:43	WG1252994
1,1,2-Trichloroethane	U		0.186	0.500	1	03/22/2019 08:43	WG1252994
Trichloroethene	U		0.153	0.500	1	03/22/2019 15:46	WG1254059
Trichlorofluoromethane	U		0.130	2.50	1	03/22/2019 08:43	WG1252994
1,2,3-Trichloropropane	U		0.247	2.50	1	03/22/2019 08:43	WG1252994
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/22/2019 08:43	WG1252994
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/22/2019 08:43	WG1252994
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/22/2019 08:43	WG1252994
Vinyl acetate	U UJ	J0 J3	0.645	5.00	1	03/22/2019 08:43	WG1252994
Vinyl chloride	0.557		0.118	0.500	1	03/22/2019 08:43	WG1252994
Xylenes, Total	U		0.316	1.50	1	03/22/2019 08:43	WG1252994
(S) Toluene-d8	*98.7*			*80.0-120*		*03/22/2019 08:43*	WG1252994
(S) Toluene-d8	*104*			*80.0-120*		*03/22/2019 15:46*	WG1254059
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/22/2019 08:43*	WG1252994
(S) 4-Bromofluorobenzene	*90.8*			*77.0-126*		*03/22/2019 15:46*	WG1254059
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*		*03/22/2019 08:43*	WG1252994
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/22/2019 15:46*	WG1254059

JC 4/7/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/19/2019 10:36	WG1251425
(S) a,a,a-Trifluorotoluene(FID)	*98.2*			*78.0-120*		*03/19/2019 10:36*	WG1251425

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	03/22/2019 09:03	WG1252994
Acrylonitrile	U		0.873	5.00	1	03/22/2019 09:03	WG1252994
Benzene	U		0.0896	0.500	1	03/22/2019 09:03	WG1252994
Bromobenzene	U		0.133	0.500	1	03/22/2019 09:03	WG1252994
Bromodichloromethane	U		0.0800	0.500	1	03/22/2019 09:03	WG1252994
Bromochloromethane	U		0.145	0.500	1	03/22/2019 09:03	WG1252994
Bromoform	U		0.186	0.500	1	03/22/2019 09:03	WG1252994
Bromomethane	U		0.157	2.50	1	03/22/2019 09:03	WG1252994
n-Butylbenzene	U		0.143	0.500	1	03/22/2019 09:03	WG1252994
sec-Butylbenzene	U		0.134	0.500	1	03/22/2019 09:03	WG1252994
tert-Butylbenzene	U		0.183	0.500	1	03/22/2019 09:03	WG1252994
Carbon disulfide	U		0.101	0.500	1	03/22/2019 09:03	WG1252994
Carbon tetrachloride	U		0.159	0.500	1	03/22/2019 09:03	WG1252994
Chlorobenzene	U		0.140	0.500	1	03/22/2019 09:03	WG1252994
Chlorodibromomethane	U		0.128	0.500	1	03/22/2019 09:03	WG1252994
Chloroethane	U		0.141	2.50	1	03/22/2019 09:03	WG1252994
Chloroform	U		0.0860	0.500	1	03/22/2019 09:03	WG1252994
Chloromethane	U		0.153	1.25	1	03/22/2019 09:03	WG1252994
2-Chlorotoluene	U		0.111	0.500	1	03/22/2019 09:03	WG1252994
4-Chlorotoluene	U		0.0972	0.500	1	03/22/2019 09:03	WG1252994
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/22/2019 09:03	WG1252994
1,2-Dibromoethane	U		0.193	0.500	1	03/22/2019 09:03	WG1252994
Dibromomethane	U		0.117	0.500	1	03/22/2019 09:03	WG1252994
1,2-Dichlorobenzene	U		0.101	0.500	1	03/22/2019 09:03	WG1252994
1,3-Dichlorobenzene	U		0.130	0.500	1	03/22/2019 09:03	WG1252994
1,4-Dichlorobenzene	U		0.121	0.500	1	03/22/2019 09:03	WG1252994
Dichlorodifluoromethane	U		0.127	2.50	1	03/22/2019 09:03	WG1252994
1,1-Dichloroethane	U		0.114	0.500	1	03/22/2019 09:03	WG1252994
1,2-Dichloroethane	U		0.108	0.500	1	03/22/2019 09:03	WG1252994
1,1-Dichloroethene	U		0.188	0.500	1	03/22/2019 09:03	WG1252994
cis-1,2-Dichloroethene	0.275 J	J	0.0933	0.500	1	03/22/2019 09:03	WG1252994
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/22/2019 09:03	WG1252994
1,2-Dichloropropane	U		0.190	0.500	1	03/22/2019 09:03	WG1252994
1,1-Dichloropropene	U		0.128	0.500	1	03/22/2019 09:03	WG1252994
1,3-Dichloropropane	U		0.147	1.00	1	03/22/2019 09:03	WG1252994
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/22/2019 09:03	WG1252994
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/22/2019 09:03	WG1252994
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/22/2019 09:03	WG1252994
2,2-Dichloropropane	U		0.0929	0.500	1	03/22/2019 09:03	WG1252994
Di-isopropyl ether	U		0.0924	0.500	1	03/22/2019 09:03	WG1252994
Ethylbenzene	U		0.158	0.500	1	03/22/2019 09:03	WG1252994
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/22/2019 09:03	WG1252994
2-Hexanone	U		0.757	5.00	1	03/22/2019 09:03	WG1252994
n-Hexane	U		0.305	5.00	1	03/22/2019 09:03	WG1252994
Iodomethane	U		0.377	10.0	1	03/22/2019 09:03	WG1252994
Isopropylbenzene	U		0.126	0.500	1	03/22/2019 09:03	WG1252994
p-Isopropyltoluene	U		0.138	0.500	1	03/22/2019 09:03	WG1252994
2-Butanone (MEK)	U		1.28	5.00	1	03/22/2019 09:03	WG1252994

JC 4/7/19

JC 4/7/19

MW137-031119

Collected date/time: 03/11/19 15:20

SAMPLE RESULTS - 06

L1079439

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	03/22/2019 09:03	WG1252994
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	03/22/2019 09:03	WG1252994
Methyl tert-butyl ether	U			0.102	0.500	1	03/22/2019 09:03	WG1252994
Naphthalene	U			0.174	2.50	1	03/22/2019 09:03	WG1252994
n-Propylbenzene	U			0.162	0.500	1	03/22/2019 09:03	WG1252994
Styrene	U			0.117	0.500	1	03/22/2019 09:03	WG1252994
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	03/22/2019 09:03	WG1252994
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	03/22/2019 09:03	WG1252994
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	03/22/2019 09:03	WG1252994
Tetrachloroethene	0.344	J	J	0.199	0.500	1	03/22/2019 09:03	WG1252994
Toluene	U			0.412	0.500	1	03/22/2019 09:03	WG1252994
1,2,3-Trichlorobenzene	U			0.164	0.500	1	03/22/2019 09:03	WG1252994
1,2,4-Trichlorobenzene	U			0.355	0.500	1	03/22/2019 09:03	WG1252994
1,1,1-Trichloroethane	U			0.0940	0.500	1	03/22/2019 09:03	WG1252994
1,1,2-Trichloroethane	U			0.186	0.500	1	03/22/2019 09:03	WG1252994
Trichloroethene	U			0.153	0.500	1	03/22/2019 16:05	WG1254059
Trichlorofluoromethane	U			0.130	2.50	1	03/22/2019 09:03	WG1252994
1,2,3-Trichloropropane	U			0.247	2.50	1	03/22/2019 09:03	WG1252994
1,2,4-Trimethylbenzene	U			0.123	0.500	1	03/22/2019 09:03	WG1252994
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	03/22/2019 09:03	WG1252994
1,3,5-Trimethylbenzene	U			0.124	0.500	1	03/22/2019 09:03	WG1252994
Vinyl acetate	U	UJ	J0 J3	0.645	5.00	1	03/22/2019 09:03	WG1252994
Vinyl chloride	0.179	J	J	0.118	0.500	1	03/22/2019 09:03	WG1252994
Xylenes, Total	U			0.316	1.50	1	03/22/2019 09:03	WG1252994
(S) Toluene-d8	*98.8*				*80.0-120*		*03/22/2019 09:03*	WG1252994
(S) Toluene-d8	*106*				*80.0-120*		*03/22/2019 16:05*	WG1254059
(S) 4-Bromofluorobenzene	*96.5*				*77.0-126*		*03/22/2019 09:03*	WG1252994
(S) 4-Bromofluorobenzene	*91.5*				*77.0-126*		*03/22/2019 16:05*	WG1254059
(S) 1,2-Dichloroethane-d4	*116*				*70.0-130*		*03/22/2019 09:03*	WG1252994
(S) 1,2-Dichloroethane-d4	*115*				*70.0-130*		*03/22/2019 16:05*	WG1254059

JC 4/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/19/2019 12:51	WG1251425
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*03/19/2019 12:51*	WG1251425

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.57	J	1.05	25.0	1	03/22/2019 09:23	WG1252994
Acrylonitrile	U		0.873	5.00	1	03/22/2019 09:23	WG1252994
Benzene	U		0.0896	0.500	1	03/22/2019 09:23	WG1252994
Bromobenzene	U		0.133	0.500	1	03/22/2019 09:23	WG1252994
Bromodichloromethane	0.209	J	0.0800	0.500	1	03/22/2019 09:23	WG1252994
Bromochloromethane	U		0.145	0.500	1	03/22/2019 09:23	WG1252994
Bromoform	U		0.186	0.500	1	03/22/2019 09:23	WG1252994
Bromomethane	U		0.157	2.50	1	03/22/2019 09:23	WG1252994
n-Butylbenzene	U		0.143	0.500	1	03/22/2019 09:23	WG1252994
sec-Butylbenzene	U		0.134	0.500	1	03/22/2019 09:23	WG1252994
tert-Butylbenzene	U		0.183	0.500	1	03/22/2019 09:23	WG1252994
Carbon disulfide	U		0.101	0.500	1	03/22/2019 09:23	WG1252994
Carbon tetrachloride	U		0.159	0.500	1	03/22/2019 09:23	WG1252994
Chlorobenzene	U		0.140	0.500	1	03/22/2019 09:23	WG1252994
Chlorodibromomethane	U		0.128	0.500	1	03/22/2019 09:23	WG1252994
Chloroethane	U		0.141	2.50	1	03/22/2019 09:23	WG1252994
Chloroform	0.302	J	0.0860	0.500	1	03/22/2019 09:23	WG1252994
Chloromethane	U		0.153	1.25	1	03/22/2019 09:23	WG1252994
2-Chlorotoluene	U		0.111	0.500	1	03/22/2019 09:23	WG1252994
4-Chlorotoluene	U		0.0972	0.500	1	03/22/2019 09:23	WG1252994
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/22/2019 09:23	WG1252994
1,2-Dibromoethane	U		0.193	0.500	1	03/22/2019 09:23	WG1252994
Dibromomethane	U		0.117	0.500	1	03/22/2019 09:23	WG1252994
1,2-Dichlorobenzene	U		0.101	0.500	1	03/22/2019 09:23	WG1252994
1,3-Dichlorobenzene	U		0.130	0.500	1	03/22/2019 09:23	WG1252994
1,4-Dichlorobenzene	U		0.121	0.500	1	03/22/2019 09:23	WG1252994
Dichlorodifluoromethane	U		0.127	2.50	1	03/22/2019 09:23	WG1252994
1,1-Dichloroethane	U		0.114	0.500	1	03/22/2019 09:23	WG1252994
1,2-Dichloroethane	U		0.108	0.500	1	03/22/2019 09:23	WG1252994
1,1-Dichloroethene	U		0.188	0.500	1	03/22/2019 09:23	WG1252994
cis-1,2-Dichloroethene	U		0.0933	0.500	1	03/22/2019 09:23	WG1252994
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/22/2019 09:23	WG1252994
1,2-Dichloropropane	U		0.190	0.500	1	03/22/2019 09:23	WG1252994
1,1-Dichloropropene	U		0.128	0.500	1	03/22/2019 09:23	WG1252994
1,3-Dichloropropane	U		0.147	1.00	1	03/22/2019 09:23	WG1252994
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/22/2019 09:23	WG1252994
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/22/2019 09:23	WG1252994
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/22/2019 09:23	WG1252994
2,2-Dichloropropane	U		0.0929	0.500	1	03/22/2019 09:23	WG1252994
Di-isopropyl ether	U		0.0924	0.500	1	03/22/2019 09:23	WG1252994
Ethylbenzene	U		0.158	0.500	1	03/22/2019 09:23	WG1252994
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/22/2019 09:23	WG1252994
2-Hexanone	U		0.757	5.00	1	03/22/2019 09:23	WG1252994
n-Hexane	U		0.305	5.00	1	03/22/2019 09:23	WG1252994
Iodomethane	U		0.377	10.0	1	03/22/2019 09:23	WG1252994
Isopropylbenzene	U		0.126	0.500	1	03/22/2019 09:23	WG1252994
p-Isopropyltoluene	U		0.138	0.500	1	03/22/2019 09:23	WG1252994
2-Butanone (MEK)	U		1.28	5.00	1	03/22/2019 09:23	WG1252994

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/22/2019 09:23	WG1252994
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/22/2019 09:23	WG1252994
Methyl tert-butyl ether	U		0.102	0.500	1	03/22/2019 09:23	WG1252994
Naphthalene	U		0.174	2.50	1	03/22/2019 09:23	WG1252994
n-Propylbenzene	U		0.162	0.500	1	03/22/2019 09:23	WG1252994
Styrene	U		0.117	0.500	1	03/22/2019 09:23	WG1252994
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/22/2019 09:23	WG1252994
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/22/2019 09:23	WG1252994
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/22/2019 09:23	WG1252994
Tetrachloroethene	U		0.199	0.500	1	03/22/2019 09:23	WG1252994
Toluene	U		0.412	0.500	1	03/22/2019 09:23	WG1252994
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/22/2019 09:23	WG1252994
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/22/2019 09:23	WG1252994
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/22/2019 09:23	WG1252994
1,1,2-Trichloroethane	U		0.186	0.500	1	03/22/2019 09:23	WG1252994
Trichloroethene	U		0.153	0.500	1	03/22/2019 14:54	WG1254076
Trichlorofluoromethane	U		0.130	2.50	1	03/22/2019 09:23	WG1252994
1,2,3-Trichloropropane	U		0.247	2.50	1	03/22/2019 09:23	WG1252994
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/22/2019 09:23	WG1252994
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/22/2019 09:23	WG1252994
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/22/2019 09:23	WG1252994
Vinyl acetate	U UJ	J0 J3	0.645	5.00	1	03/22/2019 09:23	WG1252994
Vinyl chloride	U		0.118	0.500	1	03/22/2019 09:23	WG1252994
Xylenes, Total	U		0.316	1.50	1	03/22/2019 09:23	WG1252994
(S) Toluene-d8	*97.7*			*80.0-120*		*03/22/2019 09:23*	WG1252994
(S) Toluene-d8	*87.1*			*80.0-120*		*03/22/2019 14:54*	WG1254076
(S) 4-Bromofluorobenzene	*97.1*			*77.0-126*		*03/22/2019 09:23*	WG1252994
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*03/22/2019 14:54*	WG1254076
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*03/22/2019 09:23*	WG1252994
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/22/2019 14:54*	WG1254076

JC 4/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/19/2019 13:15	WG1251425
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*78.0-120*		*03/19/2019 13:15*	WG1251425

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	03/22/2019 09:42	WG1252994
Acrylonitrile	U		0.873	5.00	1	03/22/2019 09:42	WG1252994
Benzene	U		0.0896	0.500	1	03/22/2019 09:42	WG1252994
Bromobenzene	U		0.133	0.500	1	03/22/2019 09:42	WG1252994
Bromodichloromethane	U		0.0800	0.500	1	03/22/2019 09:42	WG1252994
Bromochloromethane	U		0.145	0.500	1	03/22/2019 09:42	WG1252994
Bromoform	U		0.186	0.500	1	03/22/2019 09:42	WG1252994
Bromomethane	U		0.157	2.50	1	03/22/2019 09:42	WG1252994
n-Butylbenzene	U		0.143	0.500	1	03/22/2019 09:42	WG1252994
sec-Butylbenzene	U		0.134	0.500	1	03/22/2019 09:42	WG1252994
tert-Butylbenzene	U		0.183	0.500	1	03/22/2019 09:42	WG1252994
Carbon disulfide	U		0.101	0.500	1	03/22/2019 09:42	WG1252994
Carbon tetrachloride	U		0.159	0.500	1	03/22/2019 09:42	WG1252994
Chlorobenzene	U		0.140	0.500	1	03/22/2019 09:42	WG1252994
Chlorodibromomethane	U		0.128	0.500	1	03/22/2019 09:42	WG1252994
Chloroethane	0.385 J	J	0.141	2.50	1	03/22/2019 09:42	WG1252994
Chloroform	U		0.0860	0.500	1	03/22/2019 09:42	WG1252994
Chloromethane	U		0.153	1.25	1	03/22/2019 09:42	WG1252994
2-Chlorotoluene	U		0.111	0.500	1	03/22/2019 09:42	WG1252994
4-Chlorotoluene	U		0.0972	0.500	1	03/22/2019 09:42	WG1252994
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/22/2019 09:42	WG1252994
1,2-Dibromoethane	U		0.193	0.500	1	03/22/2019 09:42	WG1252994
Dibromomethane	U		0.117	0.500	1	03/22/2019 09:42	WG1252994
1,2-Dichlorobenzene	U		0.101	0.500	1	03/22/2019 09:42	WG1252994
1,3-Dichlorobenzene	U		0.130	0.500	1	03/22/2019 09:42	WG1252994
1,4-Dichlorobenzene	U		0.121	0.500	1	03/22/2019 09:42	WG1252994
Dichlorodifluoromethane	U		0.127	2.50	1	03/22/2019 09:42	WG1252994
1,1-Dichloroethane	U		0.114	0.500	1	03/22/2019 09:42	WG1252994
1,2-Dichloroethane	U		0.108	0.500	1	03/22/2019 09:42	WG1252994
1,1-Dichloroethene	U		0.188	0.500	1	03/22/2019 09:42	WG1252994
cis-1,2-Dichloroethene	0.187 J	J	0.0933	0.500	1	03/22/2019 09:42	WG1252994
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/22/2019 09:42	WG1252994
1,2-Dichloropropane	U		0.190	0.500	1	03/22/2019 09:42	WG1252994
1,1-Dichloropropene	U		0.128	0.500	1	03/22/2019 09:42	WG1252994
1,3-Dichloropropane	U		0.147	1.00	1	03/22/2019 09:42	WG1252994
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/22/2019 09:42	WG1252994
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/22/2019 09:42	WG1252994
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/22/2019 09:42	WG1252994
2,2-Dichloropropane	U		0.0929	0.500	1	03/22/2019 09:42	WG1252994
Di-isopropyl ether	U		0.0924	0.500	1	03/22/2019 09:42	WG1252994
Ethylbenzene	U		0.158	0.500	1	03/22/2019 09:42	WG1252994
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/22/2019 09:42	WG1252994
2-Hexanone	U		0.757	5.00	1	03/22/2019 09:42	WG1252994
n-Hexane	U		0.305	5.00	1	03/22/2019 09:42	WG1252994
Iodomethane	U		0.377	10.0	1	03/22/2019 09:42	WG1252994
Isopropylbenzene	U		0.126	0.500	1	03/22/2019 09:42	WG1252994
p-Isopropyltoluene	U		0.138	0.500	1	03/22/2019 09:42	WG1252994
2-Butanone (MEK)	U		1.28	5.00	1	03/22/2019 09:42	WG1252994

JC 4/7/19

MW139-031119

Collected date/time: 03/11/19 16:45

SAMPLE RESULTS - 08

L1079439

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	03/22/2019 09:42	WG1252994
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/22/2019 09:42	WG1252994
Methyl tert-butyl ether	U		0.102	0.500	1	03/22/2019 09:42	WG1252994
Naphthalene	U		0.174	2.50	1	03/22/2019 09:42	WG1252994
n-Propylbenzene	U		0.162	0.500	1	03/22/2019 09:42	WG1252994
Styrene	U		0.117	0.500	1	03/22/2019 09:42	WG1252994
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/22/2019 09:42	WG1252994
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/22/2019 09:42	WG1252994
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/22/2019 09:42	WG1252994
Tetrachloroethene	U		0.199	0.500	1	03/22/2019 09:42	WG1252994
Toluene	U		0.412	0.500	1	03/22/2019 09:42	WG1252994
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/22/2019 09:42	WG1252994
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/22/2019 09:42	WG1252994
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/22/2019 09:42	WG1252994
1,1,2-Trichloroethane	U		0.186	0.500	1	03/22/2019 09:42	WG1252994
Trichloroethene	U		0.153	0.500	1	03/22/2019 15:14	WG1254076
Trichlorofluoromethane	U		0.130	2.50	1	03/22/2019 09:42	WG1252994
1,2,3-Trichloropropane	U		0.247	2.50	1	03/22/2019 09:42	WG1252994
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/22/2019 09:42	WG1252994
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/22/2019 09:42	WG1252994
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/22/2019 09:42	WG1252994
Vinyl acetate	U	UJ J0 J3	0.645	5.00	1	03/22/2019 09:42	WG1252994
Vinyl chloride	5.77		0.118	0.500	1	03/22/2019 09:42	WG1252994
Xylenes, Total	U		0.316	1.50	1	03/22/2019 09:42	WG1252994
(S) Toluene-d8	*100*			*80.0-120*		*03/22/2019 09:42*	WG1252994
(S) Toluene-d8	*86.7*			*80.0-120*		*03/22/2019 15:14*	WG1254076
(S) 4-Bromofluorobenzene	*97.3*			*77.0-126*		*03/22/2019 09:42*	WG1252994
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/22/2019 15:14*	WG1254076
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*03/22/2019 09:42*	WG1252994
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/22/2019 15:14*	WG1254076

JC 4/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	690	J+	31.6	100	1	03/19/2019 13:38	WG1251425
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*03/19/2019 13:38*	WG1251425

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	03/22/2019 10:02	WG1252994
Acrylonitrile	U		0.873	5.00	1	03/22/2019 10:02	WG1252994
Benzene	U		0.0896	0.500	1	03/22/2019 10:02	WG1252994
Bromobenzene	U		0.133	0.500	1	03/22/2019 10:02	WG1252994
Bromodichloromethane	U		0.0800	0.500	1	03/22/2019 10:02	WG1252994
Bromochloromethane	U		0.145	0.500	1	03/22/2019 10:02	WG1252994
Bromoform	U		0.186	0.500	1	03/22/2019 10:02	WG1252994
Bromomethane	U		0.157	2.50	1	03/22/2019 10:02	WG1252994
n-Butylbenzene	U		0.143	0.500	1	03/22/2019 10:02	WG1252994
sec-Butylbenzene	U		0.134	0.500	1	03/22/2019 10:02	WG1252994
tert-Butylbenzene	U		0.183	0.500	1	03/22/2019 10:02	WG1252994
Carbon disulfide	U		0.101	0.500	1	03/22/2019 10:02	WG1252994
Carbon tetrachloride	U		0.159	0.500	1	03/22/2019 10:02	WG1252994
Chlorobenzene	U		0.140	0.500	1	03/22/2019 10:02	WG1252994
Chlorodibromomethane	U		0.128	0.500	1	03/22/2019 10:02	WG1252994
Chloroethane	U		0.141	2.50	1	03/22/2019 10:02	WG1252994
Chloroform	0.521		0.0860	0.500	1	03/22/2019 10:02	WG1252994
Chloromethane	U		0.153	1.25	1	03/22/2019 10:02	WG1252994
2-Chlorotoluene	U		0.111	0.500	1	03/22/2019 10:02	WG1252994
4-Chlorotoluene	U		0.0972	0.500	1	03/22/2019 10:02	WG1252994
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/22/2019 10:02	WG1252994
1,2-Dibromoethane	U		0.193	0.500	1	03/22/2019 10:02	WG1252994
Dibromomethane	U		0.117	0.500	1	03/22/2019 10:02	WG1252994
1,2-Dichlorobenzene	U		0.101	0.500	1	03/22/2019 10:02	WG1252994
1,3-Dichlorobenzene	U		0.130	0.500	1	03/22/2019 10:02	WG1252994
1,4-Dichlorobenzene	U		0.121	0.500	1	03/22/2019 10:02	WG1252994
Dichlorodifluoromethane	U		0.127	2.50	1	03/22/2019 10:02	WG1252994
1,1-Dichloroethane	U		0.114	0.500	1	03/22/2019 10:02	WG1252994
1,2-Dichloroethane	U		0.108	0.500	1	03/22/2019 10:02	WG1252994
1,1-Dichloroethene	2.39		0.188	0.500	1	03/22/2019 10:02	WG1252994
cis-1,2-Dichloroethene	758		1.87	10.0	20	03/22/2019 15:34	WG1254076
trans-1,2-Dichloroethene	2.63		0.152	0.500	1	03/22/2019 10:02	WG1252994
1,2-Dichloropropane	U		0.190	0.500	1	03/22/2019 10:02	WG1252994
1,1-Dichloropropene	U		0.128	0.500	1	03/22/2019 10:02	WG1252994
1,3-Dichloropropane	U		0.147	1.00	1	03/22/2019 10:02	WG1252994
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/22/2019 10:02	WG1252994
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/22/2019 10:02	WG1252994
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/22/2019 10:02	WG1252994
2,2-Dichloropropane	U		0.0929	0.500	1	03/22/2019 10:02	WG1252994
Di-isopropyl ether	U		0.0924	0.500	1	03/22/2019 10:02	WG1252994
Ethylbenzene	U		0.158	0.500	1	03/22/2019 10:02	WG1252994
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/22/2019 10:02	WG1252994
2-Hexanone	U		0.757	5.00	1	03/22/2019 10:02	WG1252994
n-Hexane	U		0.305	5.00	1	03/22/2019 10:02	WG1252994
Iodomethane	U		0.377	10.0	1	03/22/2019 10:02	WG1252994
Isopropylbenzene	U		0.126	0.500	1	03/22/2019 10:02	WG1252994
p-Isopropyltoluene	U		0.138	0.500	1	03/22/2019 10:02	WG1252994
2-Butanone (MEK)	U		1.28	5.00	1	03/22/2019 10:02	WG1252994

JC 4/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	03/22/2019 10:02	WG1252994
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/22/2019 10:02	WG1252994
Methyl tert-butyl ether	U		0.102	0.500	1	03/22/2019 10:02	WG1252994
Naphthalene	U		0.174	2.50	1	03/22/2019 10:02	WG1252994
n-Propylbenzene	U		0.162	0.500	1	03/22/2019 10:02	WG1252994
Styrene	U		0.117	0.500	1	03/22/2019 10:02	WG1252994
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/22/2019 10:02	WG1252994
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/22/2019 10:02	WG1252994
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/22/2019 10:02	WG1252994
Tetrachloroethene	613		3.98	10.0	20	03/22/2019 15:34	WG1254076
Toluene	U		0.412	0.500	1	03/22/2019 10:02	WG1252994
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/22/2019 10:02	WG1252994
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/22/2019 10:02	WG1252994
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/22/2019 10:02	WG1252994
1,1,2-Trichloroethane	U		0.186	0.500	1	03/22/2019 10:02	WG1252994
Trichloroethene	538		3.06	10.0	20	03/22/2019 15:34	WG1254076
Trichlorofluoromethane	U		0.130	2.50	1	03/22/2019 10:02	WG1252994
1,2,3-Trichloropropane	U		0.247	2.50	1	03/22/2019 10:02	WG1252994
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/22/2019 10:02	WG1252994
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/22/2019 10:02	WG1252994
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/22/2019 10:02	WG1252994
Vinyl acetate	U	UJ J0 J3	0.645	5.00	1	03/22/2019 10:02	WG1252994
Vinyl chloride	46.5		0.118	0.500	1	03/22/2019 10:02	WG1252994
Xylenes, Total	U		0.316	1.50	1	03/22/2019 10:02	WG1252994
(S) Toluene-d8	*102*			*80.0-120*		*03/22/2019 10:02*	WG1252994
(S) Toluene-d8	*88.4*			*80.0-120*		*03/22/2019 15:34*	WG1254076
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*03/22/2019 10:02*	WG1252994
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*03/22/2019 15:34*	WG1254076
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*03/22/2019 10:02*	WG1252994
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/22/2019 15:34*	WG1254076

JC 4/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	55900 J+		316	1000	10	03/19/2019 14:02	WG1251425
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*03/19/2019 14:02*	WG1251425

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	51.5 J	J	26.2	625	25	03/22/2019 10:40	WG1252994
Acrylonitrile	U		21.8	125	25	03/22/2019 10:40	WG1252994
Benzene	U		2.24	12.5	25	03/22/2019 10:40	WG1252994
Bromobenzene	U		3.32	12.5	25	03/22/2019 10:40	WG1252994
Bromodichloromethane	U		2.00	12.5	25	03/22/2019 10:40	WG1252994
Bromochloromethane	U		3.62	12.5	25	03/22/2019 10:40	WG1252994
Bromoform	U		4.65	12.5	25	03/22/2019 10:40	WG1252994
Bromomethane	U		3.92	62.5	25	03/22/2019 10:40	WG1252994
n-Butylbenzene	U		3.58	12.5	25	03/22/2019 10:40	WG1252994
sec-Butylbenzene	U		3.35	12.5	25	03/22/2019 10:40	WG1252994
tert-Butylbenzene	U		4.58	12.5	25	03/22/2019 10:40	WG1252994
Carbon disulfide	11.3 J	J	2.52	12.5	25	03/22/2019 10:40	WG1252994
Carbon tetrachloride	U		3.98	12.5	25	03/22/2019 10:40	WG1252994
Chlorobenzene	U		3.50	12.5	25	03/22/2019 10:40	WG1252994
Chlorodibromomethane	U		3.20	12.5	25	03/22/2019 10:40	WG1252994
Chloroethane	U		3.52	62.5	25	03/22/2019 10:40	WG1252994
Chloroform	U		2.15	12.5	25	03/22/2019 10:40	WG1252994
Chloromethane	U		3.82	31.3	25	03/22/2019 10:40	WG1252994
2-Chlorotoluene	U		2.78	12.5	25	03/22/2019 10:40	WG1252994
4-Chlorotoluene	U		2.43	12.5	25	03/22/2019 10:40	WG1252994
1,2-Dibromo-3-Chloropropane	U		8.12	62.5	25	03/22/2019 10:40	WG1252994
1,2-Dibromoethane	U		4.82	12.5	25	03/22/2019 10:40	WG1252994
Dibromomethane	U		2.92	12.5	25	03/22/2019 10:40	WG1252994
1,2-Dichlorobenzene	U		2.52	12.5	25	03/22/2019 10:40	WG1252994
1,3-Dichlorobenzene	U		3.25	12.5	25	03/22/2019 10:40	WG1252994
1,4-Dichlorobenzene	U		3.02	12.5	25	03/22/2019 10:40	WG1252994
Dichlorodifluoromethane	U		3.18	62.5	25	03/22/2019 10:40	WG1252994
1,1-Dichloroethane	U		2.85	12.5	25	03/22/2019 10:40	WG1252994
1,2-Dichloroethane	U		2.70	12.5	25	03/22/2019 10:40	WG1252994
1,1-Dichloroethene	112		4.70	12.5	25	03/22/2019 10:40	WG1252994
cis-1,2-Dichloroethene	127000		187	1000	2000	03/22/2019 15:55	WG1254076
trans-1,2-Dichloroethene	781		3.80	12.5	25	03/22/2019 10:40	WG1252994
1,2-Dichloropropane	U		4.75	12.5	25	03/22/2019 10:40	WG1252994
1,1-Dichloropropene	U		3.20	12.5	25	03/22/2019 10:40	WG1252994
1,3-Dichloropropane	U		3.68	25.0	25	03/22/2019 10:40	WG1252994
cis-1,3-Dichloropropene	U		2.44	12.5	25	03/22/2019 10:40	WG1252994
trans-1,3-Dichloropropene	U		5.55	12.5	25	03/22/2019 10:40	WG1252994
trans-1,4-Dichloro-2-butene	U		6.42	125	25	03/22/2019 10:40	WG1252994
2,2-Dichloropropane	U		2.32	12.5	25	03/22/2019 10:40	WG1252994
Di-isopropyl ether	U		2.31	12.5	25	03/22/2019 10:40	WG1252994
Ethylbenzene	U		3.95	12.5	25	03/22/2019 10:40	WG1252994
Hexachloro-1,3-butadiene	U		3.92	25.0	25	03/22/2019 10:40	WG1252994
2-Hexanone	U		18.9	125	25	03/22/2019 10:40	WG1252994
n-Hexane	U		7.62	125	25	03/22/2019 10:40	WG1252994
Iodomethane	U		9.42	250	25	03/22/2019 10:40	WG1252994
Isopropylbenzene	U		3.15	12.5	25	03/22/2019 10:40	WG1252994
p-Isopropyltoluene	U		3.45	12.5	25	03/22/2019 10:40	WG1252994
2-Butanone (MEK)	37.0 J	J	32.0	125	25	03/22/2019 10:40	WG1252994

JC 4/7/19

MW152-031219

Collected date/time: 03/12/19 12:20

SAMPLE RESULTS - 10

L1079439

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Methylene Chloride	U		26.8	62.5	25	03/22/2019 10:40	WG1252994	
4-Methyl-2-pentanone (MIBK)	U		20.6	125	25	03/22/2019 10:40	WG1252994	
Methyl tert-butyl ether	U		2.55	12.5	25	03/22/2019 10:40	WG1252994	
Naphthalene	U		4.35	62.5	25	03/22/2019 10:40	WG1252994	
n-Propylbenzene	U		4.05	12.5	25	03/22/2019 10:40	WG1252994	
Styrene	U		2.92	12.5	25	03/22/2019 10:40	WG1252994	
1,1,1,2-Tetrachloroethane	U		3.00	12.5	25	03/22/2019 10:40	WG1252994	
1,1,2,2-Tetrachloroethane	U		3.25	12.5	25	03/22/2019 10:40	WG1252994	
1,1,2-Trichlorotrifluoroethane	U		4.10	12.5	25	03/22/2019 10:40	WG1252994	
Tetrachloroethene	U		398	1000	2000	03/22/2019 15:55	WG1254076	
Toluene	U		10.3	12.5	25	03/22/2019 10:40	WG1252994	
1,2,3-Trichlorobenzene	U		4.10	12.5	25	03/22/2019 10:40	WG1252994	
1,2,4-Trichlorobenzene	U		8.88	12.5	25	03/22/2019 10:40	WG1252994	
1,1,1-Trichloroethane	U		2.35	12.5	25	03/22/2019 10:40	WG1252994	
1,1,2-Trichloroethane	U		4.65	12.5	25	03/22/2019 10:40	WG1252994	
Trichloroethene	18700		306	1000	2000	03/22/2019 15:55	WG1254076	
Trichlorofluoromethane	U		3.25	62.5	25	03/22/2019 10:40	WG1252994	
1,2,3-Trichloropropane	U		6.18	62.5	25	03/22/2019 10:40	WG1252994	
1,2,4-Trimethylbenzene	U		3.08	12.5	25	03/22/2019 10:40	WG1252994	
1,2,3-Trimethylbenzene	U		1.85	12.5	25	03/22/2019 10:40	WG1252994	
1,3,5-Trimethylbenzene	U		3.10	12.5	25	03/22/2019 10:40	WG1252994	
Vinyl acetate	U	UJ J0 J3	16.1	125	25	03/22/2019 10:40	WG1252994	
Vinyl chloride	11000		236	1000	2000	03/22/2019 15:55	WG1254076	
Xylenes, Total	U		7.90	37.5	25	03/22/2019 10:40	WG1252994	
(S) Toluene-d8	*99.3*			*80.0-120*		*03/22/2019 10:40*	WG1252994	
(S) Toluene-d8	*88.5*			*80.0-120*		*03/22/2019 15:55*	WG1254076	
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/22/2019 10:40*	WG1252994	JC 4/7/19
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*03/22/2019 15:55*	WG1254076	
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*03/22/2019 10:40*	WG1252994	
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/22/2019 15:55*	WG1254076	

Sample Narrative:

L1079439-10 WG1252994, WG1254076: Not all compounds reportable at lower dilution.

L1079439-10 WG1252994, WG1254076: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/19/2019 07:48	WG1251425
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*78.0-120*		*03/19/2019 07:48*	WG1251425

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	03/22/2019 05:37	WG1252994
Acrylonitrile	U		0.873	5.00	1	03/22/2019 05:37	WG1252994
Benzene	U		0.0896	0.500	1	03/22/2019 05:37	WG1252994
Bromobenzene	U		0.133	0.500	1	03/22/2019 05:37	WG1252994
Bromodichloromethane	U		0.0800	0.500	1	03/22/2019 05:37	WG1252994
Bromochloromethane	U		0.145	0.500	1	03/22/2019 05:37	WG1252994
Bromoform	U		0.186	0.500	1	03/22/2019 05:37	WG1252994
Bromomethane	U		0.157	2.50	1	03/22/2019 05:37	WG1252994
n-Butylbenzene	U		0.143	0.500	1	03/22/2019 05:37	WG1252994
sec-Butylbenzene	U		0.134	0.500	1	03/22/2019 05:37	WG1252994
tert-Butylbenzene	U		0.183	0.500	1	03/22/2019 05:37	WG1252994
Carbon disulfide	U		0.101	0.500	1	03/22/2019 05:37	WG1252994
Carbon tetrachloride	U		0.159	0.500	1	03/22/2019 05:37	WG1252994
Chlorobenzene	U		0.140	0.500	1	03/22/2019 05:37	WG1252994
Chlorodibromomethane	U		0.128	0.500	1	03/22/2019 05:37	WG1252994
Chloroethane	U		0.141	2.50	1	03/22/2019 05:37	WG1252994
Chloroform	U		0.0860	0.500	1	03/22/2019 05:37	WG1252994
Chloromethane	U		0.153	1.25	1	03/22/2019 05:37	WG1252994
2-Chlorotoluene	U		0.111	0.500	1	03/22/2019 05:37	WG1252994
4-Chlorotoluene	U		0.0972	0.500	1	03/22/2019 05:37	WG1252994
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	03/22/2019 05:37	WG1252994
1,2-Dibromoethane	U		0.193	0.500	1	03/22/2019 05:37	WG1252994
Dibromomethane	U		0.117	0.500	1	03/22/2019 05:37	WG1252994
1,2-Dichlorobenzene	U		0.101	0.500	1	03/22/2019 05:37	WG1252994
1,3-Dichlorobenzene	U		0.130	0.500	1	03/22/2019 05:37	WG1252994
1,4-Dichlorobenzene	U		0.121	0.500	1	03/22/2019 05:37	WG1252994
Dichlorodifluoromethane	U		0.127	2.50	1	03/22/2019 05:37	WG1252994
1,1-Dichloroethane	U		0.114	0.500	1	03/22/2019 05:37	WG1252994
1,2-Dichloroethane	U		0.108	0.500	1	03/22/2019 05:37	WG1252994
1,1-Dichloroethene	U		0.188	0.500	1	03/22/2019 05:37	WG1252994
cis-1,2-Dichloroethene	U		0.0933	0.500	1	03/22/2019 05:37	WG1252994
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/22/2019 05:37	WG1252994
1,2-Dichloropropane	U		0.190	0.500	1	03/22/2019 05:37	WG1252994
1,1-Dichloropropene	U		0.128	0.500	1	03/22/2019 05:37	WG1252994
1,3-Dichloropropane	U		0.147	1.00	1	03/22/2019 05:37	WG1252994
cis-1,3-Dichloropropene	U		0.0976	0.500	1	03/22/2019 05:37	WG1252994
trans-1,3-Dichloropropene	U		0.222	0.500	1	03/22/2019 05:37	WG1252994
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	03/22/2019 05:37	WG1252994
2,2-Dichloropropane	U		0.0929	0.500	1	03/22/2019 05:37	WG1252994
Di-isopropyl ether	U		0.0924	0.500	1	03/22/2019 05:37	WG1252994
Ethylbenzene	U		0.158	0.500	1	03/22/2019 05:37	WG1252994
Hexachloro-1,3-butadiene	U		0.157	1.00	1	03/22/2019 05:37	WG1252994
2-Hexanone	U		0.757	5.00	1	03/22/2019 05:37	WG1252994
n-Hexane	U		0.305	5.00	1	03/22/2019 05:37	WG1252994
Iodomethane	U		0.377	10.0	1	03/22/2019 05:37	WG1252994
Isopropylbenzene	U		0.126	0.500	1	03/22/2019 05:37	WG1252994
p-Isopropyltoluene	U		0.138	0.500	1	03/22/2019 05:37	WG1252994
2-Butanone (MEK)	U		1.28	5.00	1	03/22/2019 05:37	WG1252994

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	03/22/2019 05:37	WG1252994
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	03/22/2019 05:37	WG1252994
Methyl tert-butyl ether	U		0.102	0.500	1	03/22/2019 05:37	WG1252994
Naphthalene	U		0.174	2.50	1	03/22/2019 05:37	WG1252994
n-Propylbenzene	U		0.162	0.500	1	03/22/2019 05:37	WG1252994
Styrene	U		0.117	0.500	1	03/22/2019 05:37	WG1252994
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	03/22/2019 05:37	WG1252994
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	03/22/2019 05:37	WG1252994
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	03/22/2019 05:37	WG1252994
Tetrachloroethene	U		0.199	0.500	1	03/22/2019 05:37	WG1252994
Toluene	U		0.412	0.500	1	03/22/2019 05:37	WG1252994
1,2,3-Trichlorobenzene	U		0.164	0.500	1	03/22/2019 05:37	WG1252994
1,2,4-Trichlorobenzene	U		0.355	0.500	1	03/22/2019 05:37	WG1252994
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/22/2019 05:37	WG1252994
1,1,2-Trichloroethane	U		0.186	0.500	1	03/22/2019 05:37	WG1252994
Trichloroethene	U		0.153	0.500	1	03/22/2019 05:37	WG1252994
Trichlorofluoromethane	U		0.130	2.50	1	03/22/2019 05:37	WG1252994
1,2,3-Trichloropropane	U		0.247	2.50	1	03/22/2019 05:37	WG1252994
1,2,4-Trimethylbenzene	U		0.123	0.500	1	03/22/2019 05:37	WG1252994
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	03/22/2019 05:37	WG1252994
1,3,5-Trimethylbenzene	U		0.124	0.500	1	03/22/2019 05:37	WG1252994
Vinyl acetate	U	UJ J0 J3	0.645	5.00	1	03/22/2019 05:37	WG1252994
Vinyl chloride	U		0.118	0.500	1	03/22/2019 05:37	WG1252994
Xylenes, Total	U		0.316	1.50	1	03/22/2019 05:37	WG1252994
(S) Toluene-d8	*99.7*			*80.0-120*		*03/22/2019 05:37*	WG1252994
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*03/22/2019 05:37*	WG1252994
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/22/2019 05:37*	WG1252994

JC 4/7/19

MEMORANDUM

TO:	Project File	**DATE:**	May 23, 2019
FROM:	Jessie Compeau		
SUBJECT:	Laboratory Data Validation Review		
PROJECT:	American Linen Data Validation		
PROJECT #:	1413.001.05.601		
TASK:	EIM Data Validation Level EPA2A for April and May 2019 – Groundwater and Soil Vapor Samples		
LAB:	Pace Sample Delivery Groups (SDGs): L1091511, L1091936, L1091958, L1092400, L1092440, L1092880, L1093242, L1094387, L1094414, L1095166, and L1095349		

Fifty-one (51) groundwater samples (including four field duplicates), four (4) soil vapor samples (including one field duplicate), one (1) equipment blank, and ten (10) trip blanks were collected as Round 2 Quarterly Monitoring sampling event at the Former American Linen Supply Site, in Seattle, Washington, between April 22, 2019 and May 3, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- VOCs by USEPA Method TO-15;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (Chloride, Nitrate, and Sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020A.

Samples were collected between April 22 and May 3, 2019 and results are reported in eleven Pace SDGs (L1091511, L1091936, L1091958, L1092400, L1092440, L1092880, L1093242, L1094387, L1094414, L1095166, and L1095349). The quality assurance review of the sample data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with PACE control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for

Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested with the following discussions:

- SDG L1091936: Review of the chain of custody (COC) and email communication between Pace and PES indicate that analyses requests were revised on April 24, 2019 for the following:
    - Sample MW155- 042319 analyses request was limited to VOCs by USEPA Method 8260 and gasoline by NWTPH-Gx.
    - Samples MW103- 042219 and MW111-042219 analyses requests were limited to VOCs by USEPA Method 8260.
    - Samples MW104-042319, MW105-042319, and MW147-042319 analyses requests included gasoline by NWTPH-Gx.
- SDG L1091958: Review of the chain of custody (COC) and email communication between Pace and PES indicate that analyses requests were revised on April 24, 2019 for the following:
    - Sample MW155- 042319 analyses request was limited to VOCs by USEPA Method 8260 and gasoline by NWTPH-Gx.
- SDG L1092400: Two copies of the COC form are provided for review. Pace was contacted to clarify illegible laboratory condition of sample receipt notes recorded on the COC. COC date and time entries are switched but no action is taken other than to note this.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:

All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

USEPA Method TO-15:
The analyses for VOCs by Method TO-15 were performed within the 30-day recommended holding time limit for the air samples collected in Summa canisters. All holding time criteria are met.

NWTPH-Gx Method:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

USEPA Method 6020A:
All samples were analyzed within the USEPA recommended holding time for arsenic of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDGs L1091511 and L1091936 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues are noted by Pace for acetone, bromomethane, chloroethane, trichlorofluoromethane, vinyl acetate, and vinyl chloride associated with analytical batch WG1271083 (analyzed on April 24, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

- SDG L1092400 - *USEPA Method 8260C:* CCV issues are noted by Pace for acetone, bromomethane, chloroethane, trichlorofluoromethane, and vinyl chloride associated with analytical batch WG1271083 (analyzed on April 25, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

- SDGs L1092440 and L1092880 - *USEPA Method 8260C:* CCV issues are noted by Pace for acetone, bromomethane, chloroethane, trichlorofluoromethane, and vinyl chloride associated with analytical batch WG1272563 (analyzed on April 26, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

- SDGs L1091936 and L1091958 - *USEPA Method 8260C:* CCV issues are noted by Pace for acetone, bromomethane, chloroethane, trichlorofluoromethane, and vinyl chloride associated with analytical batch WG1271705 (analyzed on April 25, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

- SDG L1094387 - *USEPA Method 8260C:* CCV issues are noted by Pace for chloroethane, chloromethane, naphthalene, trichlorofluoromethane, vinyl acetate, and vinyl chloride associated with analytical batch WG1275813 (analyzed on May 3, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

- SDG L1094414 - *USEPA Method 8260C:* CCV issues are noted by Pace for acetone, bromomethane, chloroethane, trichlorofluoromethane, and vinyl chloride associated with analytical batch WG1275905 (analyzed on May 3, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDGs L1091511 and L1091936 - Analytical batch WG1271083: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples.

- SDGs L1092400, L1091936, and L1091958 - Analytical batch WG1271705: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples.

- SDG L1093242 - Analytical batch WG1272804: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples.

- SDG L1094414 - Analytical batch WG1275905: A low level of acetone is detected in the method blank. Low levels of acetone are also detected in the Trip Blank and associated equipment blank. **Acetone detections in samples MW102-050119 and MW160-050119 are detected below the RDL are qualified (U) as non-detects due to trip, equipment, and/or method blank contamination.**

- SDG L1094387 - Analytical batch WG1275813: Low levels of carbon disulfide, hexachloro-1,3-butadiene, and 1,2,3-trichlorobenzne are detected in the method blank. No action was necessary since these compounds are not detected in the associated samples.

USEPA Method TO-15:
A laboratory method blank is included with the analytical batch per method requirement. The target analytes were not detected in the method blank at or above the RDLs.

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exception:

- SDG L1095349 - Analytical batch WG1277188: Gasoline is detected at a low level (below the RDL) in the method blank. No action is taken since gasoline is detected but not detected below the RDLs in associated samples.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020A and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL.

SDG	Batch	Method	Analyte	Result	Qualifier	MRL	Units	Associated Result(s) Qualified
L1091511	WG1273424	SM2320B	Alkalinity as CaCO3, Total	3140	J	20000	ug/L	NO
L1091511	WG1270623	9060A	TOC	258	J	1000	ug/L	NO
L1091936	WG1273424	SM2320B	Alkalinity as CaCO3, Total	3140	J	20000	ug/L	NO
L1091936	WG1271082	9056A	Nitrate	26.3	J	100	ug/L	NO
L1091936	WG1271094	9060A	TOC	229	J	1000	ug/L	NO
L1091958	WG1273427	SM2320B	Alkalinity as CaCO3, Total	3360	J	20000	ug/L	NO

SDG	Batch	Method	Analyte	Result	Qualifier	MRL	Units	Associated Result(s) Qualified
L1091958	WG1271082	9056A	Nitrate	26.3	J	100	ug/L	NO
L1091958	WG1271096	9060A	TOC	485	J	1000	ug/L	NO
L1092400	WG1273429	SM2320B	Alkalinity as CaCO3, Total	3160	J	20000	ug/L	NO
L1092400	WG1272243	9060A	TOC	568	J	1000	ug/L	NO
L1092440	WG1271844	6020B	Iron	87.3	J	100	ug/L	NO
L1092440	WG1271844	6020B	Manganese	1.84	J	5.00	ug/L	NO
L1092880	WG1274856	SM2320B	Alkalinity as CaCO3, Total	3100	J	20000	ug/L	NO
L1092880	WG1271844	6020B	Iron	87.3	J	100	ug/L	NO
L1092880	WG1271844	6020B	Manganese	1.84	J	5.00	ug/L	NO
L1092880	WG1273394	9060A	TOC	284	J	1000	ug/L	NO
L1093242	WG1275809	SM2320B	Alkalinity as CaCO3, Total	3110	J	20000	ug/L	NO
L1093242	WG1273394	9060A	TOC	284	J	1000	ug/L	NO
L1093242	WG1271844	6020B	Iron	87.3	J	100	ug/L	NO
L1093242	WG1271844	6020B	Manganese	1.84	J	5.00	ug/L	NO
L1094387	WG1276578	SM2320B	Alkalinity as CaCO3, Total	5510	J	20000	ug/L	NO
L1094387	WG1276578	9060A	TOC	198	J	1000	ug/L	NO
L1094414	WG1276579	SM2320B	Alkalinity as CaCO3, Total	3670	J	20000	ug/L	NO
L1094414	WG1275310	9060A	TOC	205	J	1000	ug/L	NO
L1095349	WG1278682	SM2320B	Alkalinity as CaCO3, Total	3040	J	20000	ug/L	NO
L1095349	WG1276616	9060A	TOC	349	J	1000	ug/L	NO

Trip Blank Results

USEPA Method 8260C and NWTPH-Gx:
Ten trip blanks were collected and submitted for analysis. The target analytes were not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1092400 - Analytical batch WG1271705: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the RDL, in samples MW-153-042419, MW-909-042419, MW-146-042419, and MW-154-042419 are qualified as not detected (U).**

- SDG L1092440 - Analytical batch WG1272563: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the RDL, in samples MW-125-042319, MW-143-042419, MW-908-042419, MW-142-042419, MW-156-042419, and MW-157-042419 are qualified as not detected (U).**

- SDG L1092880 - Analytical batch WG1272563: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the RDL, in samples MW-158-042519, W-MW-01-042519, and R-MW6-042519 are qualified as not detected (U).**

- SDG L1093242 - Analytical batch WG1272804: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the**

RDL, in samples MW106-042619, MW145-042619, MW-910-042619, and MW-178-042619 are qualified as not detected (U).

- SDG L1094387 - Analytical batch WG1275813: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the RDL, are detected in all samples and are qualified as not detected (U).**

- SDG L1094414 - Analytical batch WG1277193: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the RDL, in samples MW102-050119 and MW160-050119 are qualified as not detected (U) due to trip, equipment, and/or method blank contamination.**

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:
One equipment blank (EQ-050119) was collected and analyzed for VOCs, gasoline, dissolved gases (methane, ethane, and ethene), wet chemistry parameters (alkalinity, chloride, nitrate, sulfate, and TOC), and metals (iron and manganese). Review of the equipment blank results are as follows:

- SDG L1094414: An equipment blank sample (EQ-050119) was collected on May 1, 2019 from the bladder pump associated with samples MW102-050119 and MW160-050119. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

  - Low levels of acetone, bromodichloromethane, chlorodibromomethane, and chloroform (below the RDL) are detected in the equipment blank. No action was needed for chloroform as it was not detected in the associated samples. **Sample MW102-050119 and MW160-050119 acetone detections are less than the RDL and are qualified (U) as not detected due to equipment, trip and/or method blank contamination.** Low levels of alkalinity, chloride, TOC, iron, and manganese were also detected in the equipment blank. No action was taken on this basis since associated detections in samples MW102-050119 and MW160-050119 are either above the RDL or are not detected.

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1092400: Samples MW153-042419 and MW909-042419
- SDG L1092440: Samples MW156-042419 and MW908-042419
- SDG L1093242: Samples MW159-042619 and MW910-042619
- SDG L1095349: Samples MW120-050319 and MW911-050319
- SDG L1095166: Samples SV01-042919 and SV01-042919-D

Target analyte results are comparable and within a relative percent difference (RPD) of 30% for the field duplicate pair with the following exceptions:

- SDG L1092400: Samples MW153-042419 and MW909-042419: Iron and vinyl chloride results are not comparable with RPDs greater than 30% (for results < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for iron and vinyl chloride are estimated and qualified (J).**

- SDG L1092440: Samples MW156-042419 and MW908-042419: Nitrate results are not comparable with RPDs greater than 30% (for results < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for nitrate are estimated and qualified (J).**

- SDG L1095349: Samples MW120-050319 and MW911-050319: Iron and methane results are not comparable with RPDs greater than 30% (for results < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for iron and methane are estimated and qualified (J).**

Laboratory Duplicate Analyses

USEPA Method 8260C:
Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

NWTPH-Gx Method:
A laboratory duplicate sample was not analyzed. Refer to LCS/LCSD or MS/MSDs results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020A:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
A laboratory duplicate sample was performed on client samples and on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits with the following discussions:

- SDG L1092440: Non client sample alkalinity RPD result exceeds 20%. No action is taken since the duplicate was performed on a non-client sample refer to field duplicate results for precision data.

- SDGs L1094414 and L1094387: A laboratory duplicate was performed on the equipment blank (EQ-050119) with a low-level chloride RPD result greater than laboratory QC criteria of 15%. No action is taken since the results are less than the RDL and the duplicate was performed on the equipment blank.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all the analyses.

USEPA Method TO-15:
The surrogate recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all analyses.

Laboratory Control Samples

USEPA Method 8260C:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions and exceptions:

- SDG L1092400 - Analytical batch WG1271705: LCSD recovery for acetone is above control limit criteria and laboratory qualified (J4). LCS/LCSD recoveries for acetone are wide and the RPD is above control limit criteria and laboratory qualified (J3). No action was taken on this basis since acetone was detected at a low level in the trip blank (Trip Blank). For further discussion refer to the Trip Blank Results section for details.

- SDGs L1091936 and L1091958 - Analytical batch WG1271705: LCSD recovery for acetone is above control limit criteria and laboratory qualified (J4). LCS/LCSD recoveries for acetone are wide and the RPD is above control limit criteria and laboratory qualified (J3). **Associated acetone results are already estimated and qualified (J) due to calibration issues.** Refer to the Initial and Continuing Calibration section for additional details.

- SDGs L1092440 and L1092880 - Analytical batch WG1272563: LCS/LCSD recoveries for 2-hexanone are within but are recovered wide, the RPD is above control limit criteria, and results are laboratory qualified (J3). No action is taken other than to note this.

- SDG L1092400 - Analytical batch WG1274056. No LCSD was analyzed for cis-1,2-dichloroethene. Refer to field duplicate results for precision data.

- SDG L1092400 - Analytical batch WG1274056. No LCSD was analyzed for cis-1,2-dichloroethene. Refer to field duplicate results for precision data.

- SDG L1094387 - Analytical batch WG1275813. LCSD recovery for acetone is above control limit criteria and laboratory qualified (J4). No action is taken on this basis since associated acetone results are qualified (U) as not detected due to trip blank contamination. For further discussion refer to the section on Trip Blank Results. LCS/LCSD recoveries for vinyl chloride are below control limit criteria and laboratory qualified (J4). **All associated vinyl chloride results are estimated and qualified (J/UJ) due to low LCS/LCSD recoveries.**

- SDG L1095349 - Analytical batch WG1277852. No LCSD was analyzed for VOCs. Refer to field duplicate results for precision data.

USEPA Method TO-15:
Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) were analyzed for the VOCs by TO-15 along with each analytical batch. LCS/LCSD %Rs and relative percent differences (RPDs) are within QC criteria.

NWTPH-Gx Method:

The LCS or LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters with the following discussions:

- SDG L1092400 - Analytical batch WG1272107. No LCSD was analyzed. Refer to field duplicate results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD %Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020A:
The LCS/LCSD %Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS or LCS/LCSD %Rs and RPDs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and/or field duplicate data for accuracy and precision data.

USEPA Method TO-15:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and/or field duplicate data for accuracy and precision data.

NWTPH-Gx Method:
MS/MSD analyses were performed on client or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data.

USEPA Method 6020A:
MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDG L1092400 - Analytical batch WG1271843: MS/MSDs were performed on non-client samples. The sample amount is greater than the spike amount and MS/MSD results are qualified (V) by the laboratory. No action was taken other than to note that the spike was performed on a non-client sample and LCS/LCSD results are within criteria.

- SDGs L1092440 and L1092880 - Analytical batch WG1271844: MS/MSDs were performed on client sample MW-158-042419 (SDG L1092880). The sample amount for iron is greater than the spike amount and MS/MSD results are qualified (V) by the laboratory. No action was taken other than to note that the spike was performed on a non-client sample and LCS/LCSD results are within criteria.

- SDGs L1094387 and L1094414 - Analytical batch WG1275858: MS/MSDs were performed on non-client sample. The sample amount for iron is greater than the spike amount and MS/MSD results are qualified (V) by the laboratory. No action was taken other than to note that the spike was performed on a non-client sample and LCS/LCSD results are within criteria.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are

acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDG L1092440 - Analytical batch WG1271815: The MS was performed on client sample MW-157-042419. MS results for sulfate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that the laboratory duplicate and LCS recovery results are within criteria. Sample MW157-042419 sulfate concentration is within the calibration range.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- SDG L1095349: A serial dilution was performed on field duplicate sample MW911-050319. Serial dilution criteria were not met (laboratory qualified O1) for iron. **Sample MW911-050319 and field duplicate sample MW120-050319 iron results are estimated and qualified (J) due to the high serial dilution result.** Refer to the Field Duplicate section for additional information on this field duplicate pair.

- SDG L1095349: A serial dilution was performed on field duplicate sample MW911-050319 (field duplicate sample MW120-050319). Serial dilution criteria were not met (laboratory qualified O1) for manganese at the 5X dilution. For sample MW911-050319 Pace reported two sets of results (10X and 5X) for manganese. **Sample MW911-050319 manganese result at the 5X dilution, while acceptable as estimated is rejected (R) because sample MW911-050319 manganese at the higher dilution (10X) has the higher concentration result and is reported as this result is the most conservative.** Field duplicate sample RPD results are less than 30% RPD.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Several chlorinated VOC compounds (including cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene, and tetrachloroethene) elute within the GRO retention time range. Elevated chlorinated VOC compounds likely contribute to the GRO result and associated GRO results are likely biased high (J+). Qualified samples are as follows:

Sample ID	Laboratory Identification	Result Parameter Name	Result Value (µg/L)	Qualified Result	Comments
MW104-042319	L1091936-03	Gasoline Range Organics	174	J+	Elevated chlorinated VOCs within the GRO elution range

MW147-042319	L1091936-05	Gasoline Range Organics	139	J+	Elevated chlorinated VOCs within the GRO elution range
W-MW-02-042319	L1091958-01	Gasoline Range Organics	429	J+	Elevated chlorinated VOCs within the GRO elution range
MW-908-042419	L1092440-03	Gasoline Range Organics	2600	J+	Elevated chlorinated VOCs within the GRO elution range
MW-156-042419	L1092440-05	Gasoline Range Organics	2570	J+	Elevated chlorinated VOCs within the GRO elution range
MW-157-042419	L1092440-06	Gasoline Range Organics	3210	J+	Elevated chlorinated VOCs within the GRO elution range
MW-9-042619	L1093242-08	Gasoline Range Organics	121	J+	Elevated chlorinated VOCs within the GRO elution range
MW107-050119	L1094387-09	Gasoline Range Organics	481	J+	Elevated chlorinated VOCs within the GRO elution range
MW120-050319	L1095349-01	Gasoline Range Organics	111	J+	Elevated chlorinated VOCs within the GRO elution range
MW911-050319	L1095349-02	Gasoline Range Organics	138	J+	Elevated chlorinated VOCs within the GRO elution range

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. No action is taken other than to note that Pace sample narrative notes indicate that VOC target compounds were too high to run at lower dilution for two samples as follows:

- MW-157-042419 (SDG L1092440); and
- FMW-129-050119 (SDG L1094387).

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use with the following exception:

- SDG L1095349: **Sample MW911-050319 manganese result at the 5X dilution, while acceptable as estimated is rejected (R) because sample MW911-050319 manganese at the higher dilution (10X) has the higher concentration result and is reported as the result is the most conservative.**

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	139000		2710	20000	1	04/29/2019 16:02	WG1273424

Sample Narrative:

L1091511-01 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	14200		51.9	1000	1	04/23/2019 18:05	WG1270336
Nitrate	U		22.7	100	1	04/23/2019 18:05	WG1270336
Sulfate	42700		77.4	5000	1	04/23/2019 18:05	WG1270336

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5700		102	1000	1	04/23/2019 22:50	WG1270623

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	13200		150	1000	10	05/01/2019 19:39	WG1271163
Manganese	509		2.50	50.0	10	05/01/2019 19:39	WG1271163

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/24/2019 01:20	WG1270830
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*04/24/2019 01:20*	WG1270830

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	164		0.287	0.678	1	04/24/2019 13:51	WG1271117
Ethane	U		0.296	1.29	1	04/24/2019 13:51	WG1271117
Ethene	1.43		0.422	1.27	1	04/24/2019 13:51	WG1271117

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l			ug/l	ug/l		date / time		
Acetone	2.56	J	J J0	1.05	25.0	1	04/24/2019 12:34	WG1271083	
Acrylonitrile	U			0.873	5.00	1	04/24/2019 12:34	WG1271083	
Benzene	U			0.0896	0.500	1	04/24/2019 12:34	WG1271083	
Bromobenzene	U			0.133	0.500	1	04/24/2019 12:34	WG1271083	
Bromodichloromethane	U			0.0800	0.500	1	04/24/2019 12:34	WG1271083	
Bromochloromethane	U			0.145	0.500	1	04/24/2019 12:34	WG1271083	
Bromoform	U			0.186	0.500	1	04/24/2019 12:34	WG1271083	
Bromomethane	U	UJ	J0	0.157	2.50	1	04/24/2019 12:34	WG1271083	
n-Butylbenzene	U			0.143	0.500	1	04/24/2019 12:34	WG1271083	
sec-Butylbenzene	U			0.134	0.500	1	04/24/2019 12:34	WG1271083	
tert-Butylbenzene	U			0.183	0.500	1	04/24/2019 12:34	WG1271083	
Carbon disulfide	0.405	J	J	0.101	0.500	1	04/24/2019 12:34	WG1271083	JC 5/7/19
Carbon tetrachloride	U			0.159	0.500	1	04/24/2019 12:34	WG1271083	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/24/2019 12:34	WG1271083
Chlorodibromomethane	U		0.128	0.500	1	04/24/2019 12:34	WG1271083
Chloroethane	U	UJ J0	0.141	2.50	1	04/24/2019 12:34	WG1271083
Chloroform	U		0.0860	0.500	1	04/24/2019 12:34	WG1271083
Chloromethane	U		0.153	1.25	1	04/24/2019 12:34	WG1271083
2-Chlorotoluene	U		0.111	0.500	1	04/24/2019 12:34	WG1271083
4-Chlorotoluene	U		0.0972	0.500	1	04/24/2019 12:34	WG1271083
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/24/2019 12:34	WG1271083
1,2-Dibromoethane	U		0.193	0.500	1	04/24/2019 12:34	WG1271083
Dibromomethane	U		0.117	0.500	1	04/24/2019 12:34	WG1271083
1,2-Dichlorobenzene	U		0.101	0.500	1	04/24/2019 12:34	WG1271083
1,3-Dichlorobenzene	U		0.130	0.500	1	04/24/2019 12:34	WG1271083
1,4-Dichlorobenzene	U		0.121	0.500	1	04/24/2019 12:34	WG1271083
Dichlorodifluoromethane	U		0.127	2.50	1	04/24/2019 12:34	WG1271083
1,1-Dichloroethane	U		0.114	0.500	1	04/24/2019 12:34	WG1271083
1,2-Dichloroethane	U		0.108	0.500	1	04/24/2019 12:34	WG1271083
1,1-Dichloroethene	U		0.188	0.500	1	04/24/2019 12:34	WG1271083
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/24/2019 12:34	WG1271083
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/24/2019 12:34	WG1271083
1,2-Dichloropropane	U		0.190	0.500	1	04/24/2019 12:34	WG1271083
1,1-Dichloropropene	U		0.128	0.500	1	04/24/2019 12:34	WG1271083
1,3-Dichloropropane	U		0.147	1.00	1	04/24/2019 12:34	WG1271083
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/24/2019 12:34	WG1271083
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/24/2019 12:34	WG1271083
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/24/2019 12:34	WG1271083
2,2-Dichloropropane	U		0.0929	0.500	1	04/24/2019 12:34	WG1271083
Di-isopropyl ether	U		0.0924	0.500	1	04/24/2019 12:34	WG1271083
Ethylbenzene	U		0.158	0.500	1	04/24/2019 12:34	WG1271083
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/24/2019 12:34	WG1271083
2-Hexanone	U		0.757	5.00	1	04/24/2019 12:34	WG1271083
n-Hexane	U		0.305	5.00	1	04/24/2019 12:34	WG1271083
Iodomethane	U		0.377	10.0	1	04/24/2019 12:34	WG1271083
Isopropylbenzene	U		0.126	0.500	1	04/24/2019 12:34	WG1271083
p-Isopropyltoluene	U		0.138	0.500	1	04/24/2019 12:34	WG1271083
2-Butanone (MEK)	U		1.28	5.00	1	04/24/2019 12:34	WG1271083
Methylene Chloride	U		1.07	2.50	1	04/24/2019 12:34	WG1271083
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/24/2019 12:34	WG1271083
Methyl tert-butyl ether	U		0.102	0.500	1	04/24/2019 12:34	WG1271083
Naphthalene	U		0.174	2.50	1	04/24/2019 12:34	WG1271083
n-Propylbenzene	U		0.162	0.500	1	04/24/2019 12:34	WG1271083
Styrene	U		0.117	0.500	1	04/24/2019 12:34	WG1271083
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/24/2019 12:34	WG1271083
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/24/2019 12:34	WG1271083
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/24/2019 12:34	WG1271083
Tetrachloroethene	U		0.199	0.500	1	04/24/2019 12:34	WG1271083
Toluene	U		0.412	0.500	1	04/24/2019 12:34	WG1271083
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/24/2019 12:34	WG1271083
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/24/2019 12:34	WG1271083
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/24/2019 12:34	WG1271083
1,1,2-Trichloroethane	U		0.186	0.500	1	04/24/2019 12:34	WG1271083
Trichloroethene	U		0.153	0.500	1	04/24/2019 12:34	WG1271083
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/24/2019 12:34	WG1271083
1,2,3-Trichloropropane	U		0.247	2.50	1	04/24/2019 12:34	WG1271083
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/24/2019 12:34	WG1271083
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/24/2019 12:34	WG1271083
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/24/2019 12:34	WG1271083

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U UJ	J0	0.645	5.00	1	04/24/2019 12:34	WG1271083
Vinyl chloride	U UJ	J0	0.118	0.500	1	04/24/2019 12:34	WG1271083
Xylenes, Total	U		0.316	1.50	1	04/24/2019 12:34	WG1271083
(S) Toluene-d8	*101*			*80.0-120*		*04/24/2019 12:34*	WG1271083
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/24/2019 12:34*	WG1271083
(S) 1,2-Dichloroethane-d4	*91.9*			*70.0-130*		*04/24/2019 12:34*	WG1271083

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.91 J	J J0	1.05	25.0	1	04/24/2019 12:54	WG1271083
Acrylonitrile	U		0.873	5.00	1	04/24/2019 12:54	WG1271083
Benzene	U		0.0896	0.500	1	04/24/2019 12:54	WG1271083
Bromobenzene	U		0.133	0.500	1	04/24/2019 12:54	WG1271083
Bromodichloromethane	U		0.0800	0.500	1	04/24/2019 12:54	WG1271083
Bromochloromethane	U		0.145	0.500	1	04/24/2019 12:54	WG1271083
Bromoform	U		0.186	0.500	1	04/24/2019 12:54	WG1271083
Bromomethane	U UJ	J0	0.157	2.50	1	04/24/2019 12:54	WG1271083
n-Butylbenzene	U		0.143	0.500	1	04/24/2019 12:54	WG1271083
sec-Butylbenzene	U		0.134	0.500	1	04/24/2019 12:54	WG1271083
tert-Butylbenzene	U		0.183	0.500	1	04/24/2019 12:54	WG1271083
Carbon disulfide	U		0.101	0.500	1	04/24/2019 12:54	WG1271083
Carbon tetrachloride	U		0.159	0.500	1	04/24/2019 12:54	WG1271083
Chlorobenzene	U		0.140	0.500	1	04/24/2019 12:54	WG1271083
Chlorodibromomethane	U		0.128	0.500	1	04/24/2019 12:54	WG1271083
Chloroethane	U UJ	J0	0.141	2.50	1	04/24/2019 12:54	WG1271083
Chloroform	U		0.0860	0.500	1	04/24/2019 12:54	WG1271083
Chloromethane	U		0.153	1.25	1	04/24/2019 12:54	WG1271083
2-Chlorotoluene	U		0.111	0.500	1	04/24/2019 12:54	WG1271083
4-Chlorotoluene	U		0.0972	0.500	1	04/24/2019 12:54	WG1271083
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/24/2019 12:54	WG1271083
1,2-Dibromoethane	U		0.193	0.500	1	04/24/2019 12:54	WG1271083
Dibromomethane	U		0.117	0.500	1	04/24/2019 12:54	WG1271083
1,2-Dichlorobenzene	U		0.101	0.500	1	04/24/2019 12:54	WG1271083
1,3-Dichlorobenzene	U		0.130	0.500	1	04/24/2019 12:54	WG1271083
1,4-Dichlorobenzene	U		0.121	0.500	1	04/24/2019 12:54	WG1271083
Dichlorodifluoromethane	U		0.127	2.50	1	04/24/2019 12:54	WG1271083
1,1-Dichloroethane	U		0.114	0.500	1	04/24/2019 12:54	WG1271083
1,2-Dichloroethane	U		0.108	0.500	1	04/24/2019 12:54	WG1271083
1,1-Dichloroethene	U		0.188	0.500	1	04/24/2019 12:54	WG1271083
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/24/2019 12:54	WG1271083
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/24/2019 12:54	WG1271083
1,2-Dichloropropane	U		0.190	0.500	1	04/24/2019 12:54	WG1271083
1,1-Dichloropropene	U		0.128	0.500	1	04/24/2019 12:54	WG1271083
1,3-Dichloropropane	U		0.147	1.00	1	04/24/2019 12:54	WG1271083
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/24/2019 12:54	WG1271083
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/24/2019 12:54	WG1271083
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/24/2019 12:54	WG1271083
2,2-Dichloropropane	U		0.0929	0.500	1	04/24/2019 12:54	WG1271083
Di-isopropyl ether	U		0.0924	0.500	1	04/24/2019 12:54	WG1271083
Ethylbenzene	U		0.158	0.500	1	04/24/2019 12:54	WG1271083
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/24/2019 12:54	WG1271083
2-Hexanone	U		0.757	5.00	1	04/24/2019 12:54	WG1271083
n-Hexane	U		0.305	5.00	1	04/24/2019 12:54	WG1271083
Iodomethane	U		0.377	10.0	1	04/24/2019 12:54	WG1271083
Isopropylbenzene	U		0.126	0.500	1	04/24/2019 12:54	WG1271083
p-Isopropyltoluene	U		0.138	0.500	1	04/24/2019 12:54	WG1271083
2-Butanone (MEK)	U		1.28	5.00	1	04/24/2019 12:54	WG1271083
Methylene Chloride	U		1.07	2.50	1	04/24/2019 12:54	WG1271083
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/24/2019 12:54	WG1271083
Methyl tert-butyl ether	U		0.102	0.500	1	04/24/2019 12:54	WG1271083
Naphthalene	0.282 J	J	0.174	2.50	1	04/24/2019 12:54	WG1271083
n-Propylbenzene	U		0.162	0.500	1	04/24/2019 12:54	WG1271083
Styrene	U		0.117	0.500	1	04/24/2019 12:54	WG1271083
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/24/2019 12:54	WG1271083
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/24/2019 12:54	WG1271083

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/24/2019 12:54	WG1271083
Tetrachloroethene	U		0.199	0.500	1	04/24/2019 12:54	WG1271083
Toluene	U		0.412	0.500	1	04/24/2019 12:54	WG1271083
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/24/2019 12:54	WG1271083
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/24/2019 12:54	WG1271083
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/24/2019 12:54	WG1271083
1,1,2-Trichloroethane	U		0.186	0.500	1	04/24/2019 12:54	WG1271083
Trichloroethene	U		0.153	0.500	1	04/24/2019 12:54	WG1271083
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/24/2019 12:54	WG1271083
1,2,3-Trichloropropane	U		0.247	2.50	1	04/24/2019 12:54	WG1271083
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/24/2019 12:54	WG1271083
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/24/2019 12:54	WG1271083
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/24/2019 12:54	WG1271083
Vinyl acetate	U UJ	J0	0.645	5.00	1	04/24/2019 12:54	WG1271083
Vinyl chloride	U UJ	J0	0.118	0.500	1	04/24/2019 12:54	WG1271083
Xylenes, Total	U		0.316	1.50	1	04/24/2019 12:54	WG1271083
(S) Toluene-d8	*97.2*			*80.0-120*		*04/24/2019 12:54*	WG1271083
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/24/2019 12:54*	WG1271083
(S) 1,2-Dichloroethane-d4	*93.4*			*70.0-130*		*04/24/2019 12:54*	WG1271083

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 5/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	04/24/2019 13:14	WG1271083
Acrylonitrile	U		0.873	5.00	1	04/24/2019 13:14	WG1271083
Benzene	1.05		0.0896	0.500	1	04/24/2019 13:14	WG1271083
Bromobenzene	U		0.133	0.500	1	04/24/2019 13:14	WG1271083
Bromodichloromethane	U		0.0800	0.500	1	04/24/2019 13:14	WG1271083
Bromochloromethane	U		0.145	0.500	1	04/24/2019 13:14	WG1271083
Bromoform	U		0.186	0.500	1	04/24/2019 13:14	WG1271083
Bromomethane	U UJ	J0	0.157	2.50	1	04/24/2019 13:14	WG1271083
n-Butylbenzene	U		0.143	0.500	1	04/24/2019 13:14	WG1271083
sec-Butylbenzene	U		0.134	0.500	1	04/24/2019 13:14	WG1271083
tert-Butylbenzene	U		0.183	0.500	1	04/24/2019 13:14	WG1271083
Carbon disulfide	U		0.101	0.500	1	04/24/2019 13:14	WG1271083
Carbon tetrachloride	U		0.159	0.500	1	04/24/2019 13:14	WG1271083
Chlorobenzene	U		0.140	0.500	1	04/24/2019 13:14	WG1271083
Chlorodibromomethane	U		0.128	0.500	1	04/24/2019 13:14	WG1271083
Chloroethane	U UJ	J0	0.141	2.50	1	04/24/2019 13:14	WG1271083
Chloroform	U		0.0860	0.500	1	04/24/2019 13:14	WG1271083
Chloromethane	U		0.153	1.25	1	04/24/2019 13:14	WG1271083
2-Chlorotoluene	U		0.111	0.500	1	04/24/2019 13:14	WG1271083
4-Chlorotoluene	U		0.0972	0.500	1	04/24/2019 13:14	WG1271083
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/24/2019 13:14	WG1271083
1,2-Dibromoethane	U		0.193	0.500	1	04/24/2019 13:14	WG1271083
Dibromomethane	U		0.117	0.500	1	04/24/2019 13:14	WG1271083
1,2-Dichlorobenzene	U		0.101	0.500	1	04/24/2019 13:14	WG1271083
1,3-Dichlorobenzene	U		0.130	0.500	1	04/24/2019 13:14	WG1271083
1,4-Dichlorobenzene	U		0.121	0.500	1	04/24/2019 13:14	WG1271083
Dichlorodifluoromethane	U		0.127	2.50	1	04/24/2019 13:14	WG1271083
1,1-Dichloroethane	U		0.114	0.500	1	04/24/2019 13:14	WG1271083
1,2-Dichloroethane	U		0.108	0.500	1	04/24/2019 13:14	WG1271083
1,1-Dichloroethene	U		0.188	0.500	1	04/24/2019 13:14	WG1271083
cis-1,2-Dichloroethene	11.5		0.0933	0.500	1	04/24/2019 13:14	WG1271083
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/24/2019 13:14	WG1271083
1,2-Dichloropropane	U		0.190	0.500	1	04/24/2019 13:14	WG1271083
1,1-Dichloropropene	U		0.128	0.500	1	04/24/2019 13:14	WG1271083
1,3-Dichloropropane	U		0.147	1.00	1	04/24/2019 13:14	WG1271083
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/24/2019 13:14	WG1271083
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/24/2019 13:14	WG1271083
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/24/2019 13:14	WG1271083
2,2-Dichloropropane	U		0.0929	0.500	1	04/24/2019 13:14	WG1271083
Di-isopropyl ether	0.217 J	J	0.0924	0.500	1	04/24/2019 13:14	WG1271083
Ethylbenzene	U		0.158	0.500	1	04/24/2019 13:14	WG1271083
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/24/2019 13:14	WG1271083
2-Hexanone	U		0.757	5.00	1	04/24/2019 13:14	WG1271083
n-Hexane	U		0.305	5.00	1	04/24/2019 13:14	WG1271083
Iodomethane	U		0.377	10.0	1	04/24/2019 13:14	WG1271083
Isopropylbenzene	U		0.126	0.500	1	04/24/2019 13:14	WG1271083
p-Isopropyltoluene	U		0.138	0.500	1	04/24/2019 13:14	WG1271083
2-Butanone (MEK)	U		1.28	5.00	1	04/24/2019 13:14	WG1271083
Methylene Chloride	U		1.07	2.50	1	04/24/2019 13:14	WG1271083
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/24/2019 13:14	WG1271083
Methyl tert-butyl ether	0.154 J	J	0.102	0.500	1	04/24/2019 13:14	WG1271083
Naphthalene	U		0.174	2.50	1	04/24/2019 13:14	WG1271083
n-Propylbenzene	U		0.162	0.500	1	04/24/2019 13:14	WG1271083
Styrene	U		0.117	0.500	1	04/24/2019 13:14	WG1271083
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/24/2019 13:14	WG1271083
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/24/2019 13:14	WG1271083

JC 5/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/24/2019 13:14	WG1271083
Tetrachloroethene	U		0.199	0.500	1	04/24/2019 13:14	WG1271083
Toluene	U		0.412	0.500	1	04/24/2019 13:14	WG1271083
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/24/2019 13:14	WG1271083
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/24/2019 13:14	WG1271083
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/24/2019 13:14	WG1271083
1,1,2-Trichloroethane	U		0.186	0.500	1	04/24/2019 13:14	WG1271083
Trichloroethene	U		0.153	0.500	1	04/24/2019 13:14	WG1271083
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/24/2019 13:14	WG1271083
1,2,3-Trichloropropane	U		0.247	2.50	1	04/24/2019 13:14	WG1271083
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/24/2019 13:14	WG1271083
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/24/2019 13:14	WG1271083
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/24/2019 13:14	WG1271083
Vinyl acetate	U UJ	J0	0.645	5.00	1	04/24/2019 13:14	WG1271083
Vinyl chloride	57.7 J	J0	0.118	0.500	1	04/24/2019 13:14	WG1271083
Xylenes, Total	U		0.316	1.50	1	04/24/2019 13:14	WG1271083
(S) Toluene-d8	*99.6*			*80.0-120*		*04/24/2019 13:14*	WG1271083
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/24/2019 13:14*	WG1271083
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*04/24/2019 13:14*	WG1271083

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 5/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.80	J	J J0	1.05	25.0	1	04/24/2019 13:34	WG1271083
Acrylonitrile	U			0.873	5.00	1	04/24/2019 13:34	WG1271083
Benzene	U			0.0896	0.500	1	04/24/2019 13:34	WG1271083
Bromobenzene	U			0.133	0.500	1	04/24/2019 13:34	WG1271083
Bromodichloromethane	U			0.0800	0.500	1	04/24/2019 13:34	WG1271083
Bromochloromethane	U			0.145	0.500	1	04/24/2019 13:34	WG1271083
Bromoform	U			0.186	0.500	1	04/24/2019 13:34	WG1271083
Bromomethane	U	UJ	J0	0.157	2.50	1	04/24/2019 13:34	WG1271083
n-Butylbenzene	U			0.143	0.500	1	04/24/2019 13:34	WG1271083
sec-Butylbenzene	U			0.134	0.500	1	04/24/2019 13:34	WG1271083
tert-Butylbenzene	U			0.183	0.500	1	04/24/2019 13:34	WG1271083
Carbon disulfide	U			0.101	0.500	1	04/24/2019 13:34	WG1271083
Carbon tetrachloride	U			0.159	0.500	1	04/24/2019 13:34	WG1271083
Chlorobenzene	U			0.140	0.500	1	04/24/2019 13:34	WG1271083
Chlorodibromomethane	U			0.128	0.500	1	04/24/2019 13:34	WG1271083
Chloroethane	U	UJ	J0	0.141	2.50	1	04/24/2019 13:34	WG1271083
Chloroform	U			0.0860	0.500	1	04/24/2019 13:34	WG1271083
Chloromethane	U			0.153	1.25	1	04/24/2019 13:34	WG1271083
2-Chlorotoluene	U			0.111	0.500	1	04/24/2019 13:34	WG1271083
4-Chlorotoluene	U			0.0972	0.500	1	04/24/2019 13:34	WG1271083
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	04/24/2019 13:34	WG1271083
1,2-Dibromoethane	U			0.193	0.500	1	04/24/2019 13:34	WG1271083
Dibromomethane	U			0.117	0.500	1	04/24/2019 13:34	WG1271083
1,2-Dichlorobenzene	U			0.101	0.500	1	04/24/2019 13:34	WG1271083
1,3-Dichlorobenzene	U			0.130	0.500	1	04/24/2019 13:34	WG1271083
1,4-Dichlorobenzene	U			0.121	0.500	1	04/24/2019 13:34	WG1271083
Dichlorodifluoromethane	U			0.127	2.50	1	04/24/2019 13:34	WG1271083
1,1-Dichloroethane	U			0.114	0.500	1	04/24/2019 13:34	WG1271083
1,2-Dichloroethane	U			0.108	0.500	1	04/24/2019 13:34	WG1271083
1,1-Dichloroethene	U			0.188	0.500	1	04/24/2019 13:34	WG1271083
cis-1,2-Dichloroethene	10.8			0.0933	0.500	1	04/24/2019 13:34	WG1271083
trans-1,2-Dichloroethene	U			0.152	0.500	1	04/24/2019 13:34	WG1271083
1,2-Dichloropropane	U			0.190	0.500	1	04/24/2019 13:34	WG1271083
1,1-Dichloropropene	U			0.128	0.500	1	04/24/2019 13:34	WG1271083
1,3-Dichloropropane	U			0.147	1.00	1	04/24/2019 13:34	WG1271083
cis-1,3-Dichloropropene	U			0.0976	0.500	1	04/24/2019 13:34	WG1271083
trans-1,3-Dichloropropene	U			0.222	0.500	1	04/24/2019 13:34	WG1271083
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	04/24/2019 13:34	WG1271083
2,2-Dichloropropane	U			0.0929	0.500	1	04/24/2019 13:34	WG1271083
Di-isopropyl ether	U			0.0924	0.500	1	04/24/2019 13:34	WG1271083
Ethylbenzene	U			0.158	0.500	1	04/24/2019 13:34	WG1271083
Hexachloro-1,3-butadiene	U			0.157	1.00	1	04/24/2019 13:34	WG1271083
2-Hexanone	U			0.757	5.00	1	04/24/2019 13:34	WG1271083
n-Hexane	U			0.305	5.00	1	04/24/2019 13:34	WG1271083
Iodomethane	U			0.377	10.0	1	04/24/2019 13:34	WG1271083
Isopropylbenzene	U			0.126	0.500	1	04/24/2019 13:34	WG1271083
p-Isopropyltoluene	U			0.138	0.500	1	04/24/2019 13:34	WG1271083
2-Butanone (MEK)	U			1.28	5.00	1	04/24/2019 13:34	WG1271083
Methylene Chloride	U			1.07	2.50	1	04/24/2019 13:34	WG1271083
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	04/24/2019 13:34	WG1271083
Methyl tert-butyl ether	U			0.102	0.500	1	04/24/2019 13:34	WG1271083
Naphthalene	U			0.174	2.50	1	04/24/2019 13:34	WG1271083
n-Propylbenzene	U			0.162	0.500	1	04/24/2019 13:34	WG1271083
Styrene	U			0.117	0.500	1	04/24/2019 13:34	WG1271083
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	04/24/2019 13:34	WG1271083
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	04/24/2019 13:34	WG1271083

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FMW-131-042219

Collected date/time: 04/22/19 12:55

SAMPLE RESULTS - 04

L1091511

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	04/24/2019 13:34	WG1271083
Tetrachloroethene	U			0.199	0.500	1	04/24/2019 13:34	WG1271083
Toluene	U			0.412	0.500	1	04/24/2019 13:34	WG1271083
1,2,3-Trichlorobenzene	U			0.164	0.500	1	04/24/2019 13:34	WG1271083
1,2,4-Trichlorobenzene	U			0.355	0.500	1	04/24/2019 13:34	WG1271083
1,1,1-Trichloroethane	U			0.0940	0.500	1	04/24/2019 13:34	WG1271083
1,1,2-Trichloroethane	U			0.186	0.500	1	04/24/2019 13:34	WG1271083
Trichloroethene	U			0.153	0.500	1	04/24/2019 13:34	WG1271083
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	04/24/2019 13:34	WG1271083
1,2,3-Trichloropropane	U			0.247	2.50	1	04/24/2019 13:34	WG1271083
1,2,4-Trimethylbenzene	U			0.123	0.500	1	04/24/2019 13:34	WG1271083
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	04/24/2019 13:34	WG1271083
1,3,5-Trimethylbenzene	U			0.124	0.500	1	04/24/2019 13:34	WG1271083
Vinyl acetate	U	UJ	J0	0.645	5.00	1	04/24/2019 13:34	WG1271083
Vinyl chloride	0.195	J	J J0	0.118	0.500	1	04/24/2019 13:34	WG1271083
Xylenes, Total	U			0.316	1.50	1	04/24/2019 13:34	WG1271083
(S) Toluene-d8	*99.2*				*80.0-120*		*04/24/2019 13:34*	WG1271083
(S) 4-Bromofluorobenzene	*104*				*77.0-126*		*04/24/2019 13:34*	WG1271083
(S) 1,2-Dichloroethane-d4	*92.9*				*70.0-130*		*04/24/2019 13:34*	WG1271083

JC 5/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	82900		2710	20000	1	04/29/2019 16:09	WG1273424

Sample Narrative:

L1091511-05 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	7090		51.9	1000	1	04/23/2019 18:20	WG1270336
Nitrate	U		22.7	100	1	04/23/2019 18:20	WG1270336
Sulfate	7650		77.4	5000	1	04/23/2019 18:20	WG1270336

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6040		102	1000	1	04/23/2019 23:04	WG1270623

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	4900		75.0	500	5	05/01/2019 19:44	WG1271163
Manganese	177		0.250	5.00	1	05/01/2019 19:22	WG1271163

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/24/2019 01:44	WG1270830
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*04/24/2019 01:44*	WG1270830

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	281		0.287	0.678	1	04/24/2019 13:53	WG1271117
Ethane	1.12 J	J	0.296	1.29	1	04/24/2019 13:53	WG1271117
Ethene	1.13 J	J	0.422	1.27	1	04/24/2019 13:53	WG1271117

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.37 J	J J0	1.05	25.0	1	04/24/2019 13:54	WG1271083
Acrylonitrile	U		0.873	5.00	1	04/24/2019 13:54	WG1271083
Benzene	U		0.0896	0.500	1	04/24/2019 13:54	WG1271083
Bromobenzene	U		0.133	0.500	1	04/24/2019 13:54	WG1271083
Bromodichloromethane	U		0.0800	0.500	1	04/24/2019 13:54	WG1271083
Bromochloromethane	U		0.145	0.500	1	04/24/2019 13:54	WG1271083
Bromoform	U		0.186	0.500	1	04/24/2019 13:54	WG1271083
Bromomethane	U UJ	J0	0.157	2.50	1	04/24/2019 13:54	WG1271083
n-Butylbenzene	U		0.143	0.500	1	04/24/2019 13:54	WG1271083
sec-Butylbenzene	U		0.134	0.500	1	04/24/2019 13:54	WG1271083
tert-Butylbenzene	U		0.183	0.500	1	04/24/2019 13:54	WG1271083
Carbon disulfide	U		0.101	0.500	1	04/24/2019 13:54	WG1271083
Carbon tetrachloride	U		0.159	0.500	1	04/24/2019 13:54	WG1271083

JC 5/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	04/24/2019 13:54	WG1271083	
Chlorodibromomethane	U		0.128	0.500	1	04/24/2019 13:54	WG1271083	
Chloroethane	U UJ	J0	0.141	2.50	1	04/24/2019 13:54	WG1271083	
Chloroform	U		0.0860	0.500	1	04/24/2019 13:54	WG1271083	
Chloromethane	U		0.153	1.25	1	04/24/2019 13:54	WG1271083	
2-Chlorotoluene	U		0.111	0.500	1	04/24/2019 13:54	WG1271083	
4-Chlorotoluene	U		0.0972	0.500	1	04/24/2019 13:54	WG1271083	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/24/2019 13:54	WG1271083	
1,2-Dibromoethane	U		0.193	0.500	1	04/24/2019 13:54	WG1271083	
Dibromomethane	U		0.117	0.500	1	04/24/2019 13:54	WG1271083	
1,2-Dichlorobenzene	U		0.101	0.500	1	04/24/2019 13:54	WG1271083	
1,3-Dichlorobenzene	U		0.130	0.500	1	04/24/2019 13:54	WG1271083	
1,4-Dichlorobenzene	U		0.121	0.500	1	04/24/2019 13:54	WG1271083	
Dichlorodifluoromethane	U		0.127	2.50	1	04/24/2019 13:54	WG1271083	
1,1-Dichloroethane	U		0.114	0.500	1	04/24/2019 13:54	WG1271083	
1,2-Dichloroethane	U		0.108	0.500	1	04/24/2019 13:54	WG1271083	
1,1-Dichloroethene	U		0.188	0.500	1	04/24/2019 13:54	WG1271083	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/24/2019 13:54	WG1271083	
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/24/2019 13:54	WG1271083	
1,2-Dichloropropane	U		0.190	0.500	1	04/24/2019 13:54	WG1271083	
1,1-Dichloropropene	U		0.128	0.500	1	04/24/2019 13:54	WG1271083	
1,3-Dichloropropane	U		0.147	1.00	1	04/24/2019 13:54	WG1271083	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/24/2019 13:54	WG1271083	
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/24/2019 13:54	WG1271083	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/24/2019 13:54	WG1271083	
2,2-Dichloropropane	U		0.0929	0.500	1	04/24/2019 13:54	WG1271083	
Di-isopropyl ether	U		0.0924	0.500	1	04/24/2019 13:54	WG1271083	
Ethylbenzene	U		0.158	0.500	1	04/24/2019 13:54	WG1271083	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/24/2019 13:54	WG1271083	
2-Hexanone	U		0.757	5.00	1	04/24/2019 13:54	WG1271083	
n-Hexane	U		0.305	5.00	1	04/24/2019 13:54	WG1271083	
Iodomethane	U		0.377	10.0	1	04/24/2019 13:54	WG1271083	
Isopropylbenzene	U		0.126	0.500	1	04/24/2019 13:54	WG1271083	
p-Isopropyltoluene	U		0.138	0.500	1	04/24/2019 13:54	WG1271083	
2-Butanone (MEK)	U		1.28	5.00	1	04/24/2019 13:54	WG1271083	
Methylene Chloride	U		1.07	2.50	1	04/24/2019 13:54	WG1271083	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/24/2019 13:54	WG1271083	
Methyl tert-butyl ether	U		0.102	0.500	1	04/24/2019 13:54	WG1271083	
Naphthalene	U		0.174	2.50	1	04/24/2019 13:54	WG1271083	
n-Propylbenzene	U		0.162	0.500	1	04/24/2019 13:54	WG1271083	
Styrene	U		0.117	0.500	1	04/24/2019 13:54	WG1271083	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/24/2019 13:54	WG1271083	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/24/2019 13:54	WG1271083	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/24/2019 13:54	WG1271083	
Tetrachloroethene	U		0.199	0.500	1	04/24/2019 13:54	WG1271083	
Toluene	U		0.412	0.500	1	04/24/2019 13:54	WG1271083	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/24/2019 13:54	WG1271083	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/24/2019 13:54	WG1271083	
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/24/2019 13:54	WG1271083	JC 5/7/19
1,1,2-Trichloroethane	U		0.186	0.500	1	04/24/2019 13:54	WG1271083	
Trichloroethene	U		0.153	0.500	1	04/24/2019 13:54	WG1271083	
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/24/2019 13:54	WG1271083	
1,2,3-Trichloropropane	U		0.247	2.50	1	04/24/2019 13:54	WG1271083	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/24/2019 13:54	WG1271083	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/24/2019 13:54	WG1271083	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/24/2019 13:54	WG1271083	

MW112-042219

Collected date/time: 04/22/19 13:00

SAMPLE RESULTS - 05

L1091511

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	04/24/2019 13:54	WG1271083
Vinyl chloride	U	UJ	J0	0.118	0.500	1	04/24/2019 13:54	WG1271083
Xylenes, Total	U			0.316	1.50	1	04/24/2019 13:54	WG1271083
(S) Toluene-d8	*99.6*				*80.0-120*		*04/24/2019 13:54*	WG1271083
(S) 4-Bromofluorobenzene	*105*				*77.0-126*		*04/24/2019 13:54*	WG1271083
(S) 1,2-Dichloroethane-d4	*95.4*				*70.0-130*		*04/24/2019 13:54*	WG1271083

JC 5/7/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/23/2019 22:57	WG1270830
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/23/2019 22:57*	WG1270830

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	04/24/2019 12:14	WG1271083
Acrylonitrile	U		0.873	5.00	1	04/24/2019 12:14	WG1271083
Benzene	U		0.0896	0.500	1	04/24/2019 12:14	WG1271083
Bromobenzene	U		0.133	0.500	1	04/24/2019 12:14	WG1271083
Bromodichloromethane	U		0.0800	0.500	1	04/24/2019 12:14	WG1271083
Bromochloromethane	U		0.145	0.500	1	04/24/2019 12:14	WG1271083
Bromoform	U		0.186	0.500	1	04/24/2019 12:14	WG1271083
Bromomethane	U UJ	J0	0.157	2.50	1	04/24/2019 12:14	WG1271083
n-Butylbenzene	U		0.143	0.500	1	04/24/2019 12:14	WG1271083
sec-Butylbenzene	U		0.134	0.500	1	04/24/2019 12:14	WG1271083
tert-Butylbenzene	U		0.183	0.500	1	04/24/2019 12:14	WG1271083
Carbon disulfide	U		0.101	0.500	1	04/24/2019 12:14	WG1271083
Carbon tetrachloride	U		0.159	0.500	1	04/24/2019 12:14	WG1271083
Chlorobenzene	U		0.140	0.500	1	04/24/2019 12:14	WG1271083
Chlorodibromomethane	U		0.128	0.500	1	04/24/2019 12:14	WG1271083
Chloroethane	U UJ	J0	0.141	2.50	1	04/24/2019 12:14	WG1271083
Chloroform	U		0.0860	0.500	1	04/24/2019 12:14	WG1271083
Chloromethane	U		0.153	1.25	1	04/24/2019 12:14	WG1271083
2-Chlorotoluene	U		0.111	0.500	1	04/24/2019 12:14	WG1271083
4-Chlorotoluene	U		0.0972	0.500	1	04/24/2019 12:14	WG1271083
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/24/2019 12:14	WG1271083
1,2-Dibromoethane	U		0.193	0.500	1	04/24/2019 12:14	WG1271083
Dibromomethane	U		0.117	0.500	1	04/24/2019 12:14	WG1271083
1,2-Dichlorobenzene	U		0.101	0.500	1	04/24/2019 12:14	WG1271083
1,3-Dichlorobenzene	U		0.130	0.500	1	04/24/2019 12:14	WG1271083
1,4-Dichlorobenzene	U		0.121	0.500	1	04/24/2019 12:14	WG1271083
Dichlorodifluoromethane	U		0.127	2.50	1	04/24/2019 12:14	WG1271083
1,1-Dichloroethane	U		0.114	0.500	1	04/24/2019 12:14	WG1271083
1,2-Dichloroethane	U		0.108	0.500	1	04/24/2019 12:14	WG1271083
1,1-Dichloroethene	U		0.188	0.500	1	04/24/2019 12:14	WG1271083
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/24/2019 12:14	WG1271083
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/24/2019 12:14	WG1271083
1,2-Dichloropropane	U		0.190	0.500	1	04/24/2019 12:14	WG1271083
1,1-Dichloropropene	U		0.128	0.500	1	04/24/2019 12:14	WG1271083
1,3-Dichloropropane	U		0.147	1.00	1	04/24/2019 12:14	WG1271083
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/24/2019 12:14	WG1271083
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/24/2019 12:14	WG1271083
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/24/2019 12:14	WG1271083
2,2-Dichloropropane	U		0.0929	0.500	1	04/24/2019 12:14	WG1271083
Di-isopropyl ether	U		0.0924	0.500	1	04/24/2019 12:14	WG1271083
Ethylbenzene	U		0.158	0.500	1	04/24/2019 12:14	WG1271083
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/24/2019 12:14	WG1271083
2-Hexanone	U		0.757	5.00	1	04/24/2019 12:14	WG1271083
n-Hexane	U		0.305	5.00	1	04/24/2019 12:14	WG1271083
Iodomethane	U		0.377	10.0	1	04/24/2019 12:14	WG1271083
Isopropylbenzene	U		0.126	0.500	1	04/24/2019 12:14	WG1271083
p-Isopropyltoluene	U		0.138	0.500	1	04/24/2019 12:14	WG1271083
2-Butanone (MEK)	U		1.28	5.00	1	04/24/2019 12:14	WG1271083

JC 5/7/19

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Collected date/time: 04/22/19 00:00

SAMPLE RESULTS - 06

L1091511

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	04/24/2019 12:14	WG1271083
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/24/2019 12:14	WG1271083
Methyl tert-butyl ether	U		0.102	0.500	1	04/24/2019 12:14	WG1271083
Naphthalene	U		0.174	2.50	1	04/24/2019 12:14	WG1271083
n-Propylbenzene	U		0.162	0.500	1	04/24/2019 12:14	WG1271083
Styrene	U		0.117	0.500	1	04/24/2019 12:14	WG1271083
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/24/2019 12:14	WG1271083
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/24/2019 12:14	WG1271083
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/24/2019 12:14	WG1271083
Tetrachloroethene	U		0.199	0.500	1	04/24/2019 12:14	WG1271083
Toluene	U		0.412	0.500	1	04/24/2019 12:14	WG1271083
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/24/2019 12:14	WG1271083
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/24/2019 12:14	WG1271083
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/24/2019 12:14	WG1271083
1,1,2-Trichloroethane	U		0.186	0.500	1	04/24/2019 12:14	WG1271083
Trichloroethene	U		0.153	0.500	1	04/24/2019 12:14	WG1271083
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/24/2019 12:14	WG1271083
1,2,3-Trichloropropane	U		0.247	2.50	1	04/24/2019 12:14	WG1271083
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/24/2019 12:14	WG1271083
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/24/2019 12:14	WG1271083
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/24/2019 12:14	WG1271083
Vinyl acetate	U	UJ J0	0.645	5.00	1	04/24/2019 12:14	WG1271083
Vinyl chloride	U	UJ J0	0.118	0.500	1	04/24/2019 12:14	WG1271083
Xylenes, Total	U		0.316	1.50	1	04/24/2019 12:14	WG1271083
(S) Toluene-d8	*99.5*			*80.0-120*		*04/24/2019 12:14*	WG1271083
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/24/2019 12:14*	WG1271083
(S) 1,2-Dichloroethane-d4	*93.6*			*70.0-130*		*04/24/2019 12:14*	WG1271083

JC 5/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

R-MW5-042219

Collected date/time: 04/22/19 11:30

SAMPLE RESULTS - 07

L1091511

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/24/2019 02:08	WG1270830
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*04/24/2019 02:08*	WG1270830

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	04/24/2019 14:14	WG1271083
Acrylonitrile	U		0.873	5.00	1	04/24/2019 14:14	WG1271083
Benzene	U		0.0896	0.500	1	04/24/2019 14:14	WG1271083
Bromobenzene	U		0.133	0.500	1	04/24/2019 14:14	WG1271083
Bromodichloromethane	U		0.0800	0.500	1	04/24/2019 14:14	WG1271083
Bromochloromethane	U		0.145	0.500	1	04/24/2019 14:14	WG1271083
Bromoform	U		0.186	0.500	1	04/24/2019 14:14	WG1271083
Bromomethane	U UJ	J0	0.157	2.50	1	04/24/2019 14:14	WG1271083
n-Butylbenzene	U		0.143	0.500	1	04/24/2019 14:14	WG1271083
sec-Butylbenzene	U		0.134	0.500	1	04/24/2019 14:14	WG1271083
tert-Butylbenzene	U		0.183	0.500	1	04/24/2019 14:14	WG1271083
Carbon disulfide	U		0.101	0.500	1	04/24/2019 14:14	WG1271083
Carbon tetrachloride	U		0.159	0.500	1	04/24/2019 14:14	WG1271083
Chlorobenzene	U		0.140	0.500	1	04/24/2019 14:14	WG1271083
Chlorodibromomethane	U		0.128	0.500	1	04/24/2019 14:14	WG1271083
Chloroethane	U UJ	J0	0.141	2.50	1	04/24/2019 14:14	WG1271083
Chloroform	1.28		0.0860	0.500	1	04/24/2019 14:14	WG1271083
Chloromethane	U		0.153	1.25	1	04/24/2019 14:14	WG1271083
2-Chlorotoluene	U		0.111	0.500	1	04/24/2019 14:14	WG1271083
4-Chlorotoluene	U		0.0972	0.500	1	04/24/2019 14:14	WG1271083
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/24/2019 14:14	WG1271083
1,2-Dibromoethane	U		0.193	0.500	1	04/24/2019 14:14	WG1271083
Dibromomethane	U		0.117	0.500	1	04/24/2019 14:14	WG1271083
1,2-Dichlorobenzene	U		0.101	0.500	1	04/24/2019 14:14	WG1271083
1,3-Dichlorobenzene	U		0.130	0.500	1	04/24/2019 14:14	WG1271083
1,4-Dichlorobenzene	U		0.121	0.500	1	04/24/2019 14:14	WG1271083
Dichlorodifluoromethane	U		0.127	2.50	1	04/24/2019 14:14	WG1271083
1,1-Dichloroethane	U		0.114	0.500	1	04/24/2019 14:14	WG1271083
1,2-Dichloroethane	U		0.108	0.500	1	04/24/2019 14:14	WG1271083
1,1-Dichloroethene	U		0.188	0.500	1	04/24/2019 14:14	WG1271083
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/24/2019 14:14	WG1271083
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/24/2019 14:14	WG1271083
1,2-Dichloropropane	U		0.190	0.500	1	04/24/2019 14:14	WG1271083
1,1-Dichloropropene	U		0.128	0.500	1	04/24/2019 14:14	WG1271083
1,3-Dichloropropane	U		0.147	1.00	1	04/24/2019 14:14	WG1271083
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/24/2019 14:14	WG1271083
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/24/2019 14:14	WG1271083
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/24/2019 14:14	WG1271083
2,2-Dichloropropane	U		0.0929	0.500	1	04/24/2019 14:14	WG1271083
Di-isopropyl ether	U		0.0924	0.500	1	04/24/2019 14:14	WG1271083
Ethylbenzene	U		0.158	0.500	1	04/24/2019 14:14	WG1271083
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/24/2019 14:14	WG1271083
2-Hexanone	U		0.757	5.00	1	04/24/2019 14:14	WG1271083
n-Hexane	U		0.305	5.00	1	04/24/2019 14:14	WG1271083
Iodomethane	U		0.377	10.0	1	04/24/2019 14:14	WG1271083
Isopropylbenzene	U		0.126	0.500	1	04/24/2019 14:14	WG1271083
p-Isopropyltoluene	U		0.138	0.500	1	04/24/2019 14:14	WG1271083
2-Butanone (MEK)	U		1.28	5.00	1	04/24/2019 14:14	WG1271083

JC 5/7/19

R-MW5-042219

Collected date/time: 04/22/19 11:30

SAMPLE RESULTS - 07

L1091511

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Methylene Chloride	U			1.07	2.50	1	04/24/2019 14:14	WG1271083
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	04/24/2019 14:14	WG1271083
Methyl tert-butyl ether	U			0.102	0.500	1	04/24/2019 14:14	WG1271083
Naphthalene	U			0.174	2.50	1	04/24/2019 14:14	WG1271083
n-Propylbenzene	U			0.162	0.500	1	04/24/2019 14:14	WG1271083
Styrene	U			0.117	0.500	1	04/24/2019 14:14	WG1271083
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	04/24/2019 14:14	WG1271083
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	04/24/2019 14:14	WG1271083
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	04/24/2019 14:14	WG1271083
Tetrachloroethene	0.499	J	J	0.199	0.500	1	04/24/2019 14:14	WG1271083
Toluene	0.428	J	J	0.412	0.500	1	04/24/2019 14:14	WG1271083
1,2,3-Trichlorobenzene	U			0.164	0.500	1	04/24/2019 14:14	WG1271083
1,2,4-Trichlorobenzene	U			0.355	0.500	1	04/24/2019 14:14	WG1271083
1,1,1-Trichloroethane	U			0.0940	0.500	1	04/24/2019 14:14	WG1271083
1,1,2-Trichloroethane	U			0.186	0.500	1	04/24/2019 14:14	WG1271083
Trichloroethene	0.155	J	J	0.153	0.500	1	04/24/2019 14:14	WG1271083
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	04/24/2019 14:14	WG1271083
1,2,3-Trichloropropane	U			0.247	2.50	1	04/24/2019 14:14	WG1271083
1,2,4-Trimethylbenzene	U			0.123	0.500	1	04/24/2019 14:14	WG1271083
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	04/24/2019 14:14	WG1271083
1,3,5-Trimethylbenzene	U			0.124	0.500	1	04/24/2019 14:14	WG1271083
Vinyl acetate	U	UJ	J0	0.645	5.00	1	04/24/2019 14:14	WG1271083
Vinyl chloride	U	UJ	J0	0.118	0.500	1	04/24/2019 14:14	WG1271083
Xylenes, Total	U			0.316	1.50	1	04/24/2019 14:14	WG1271083
(S) Toluene-d8	*99.5*				*80.0-120*		*04/24/2019 14:14*	WG1271083
(S) 4-Bromofluorobenzene	*104*				*77.0-126*		*04/24/2019 14:14*	WG1271083
(S) 1,2-Dichloroethane-d4	*94.6*				*70.0-130*		*04/24/2019 14:14*	WG1271083

JC 5/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.66 J	J J0 J3 J4	1.05	25.0	1	04/25/2019 16:48	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 16:48	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 16:48	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 16:48	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 16:48	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 16:48	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 16:48	WG1271705
Bromomethane	U UJ	J0	0.157	2.50	1	04/25/2019 16:48	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 16:48	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 16:48	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 16:48	WG1271705
Carbon disulfide	U		0.101	0.500	1	04/25/2019 16:48	WG1271705
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 16:48	WG1271705
Chlorobenzene	U		0.140	0.500	1	04/25/2019 16:48	WG1271705
Chlorodibromomethane	U		0.128	0.500	1	04/25/2019 16:48	WG1271705
Chloroethane	U UJ	J0	0.141	2.50	1	04/25/2019 16:48	WG1271705
Chloroform	U		0.0860	0.500	1	04/25/2019 16:48	WG1271705
Chloromethane	U		0.153	1.25	1	04/25/2019 16:48	WG1271705
2-Chlorotoluene	U		0.111	0.500	1	04/25/2019 16:48	WG1271705
4-Chlorotoluene	U		0.0972	0.500	1	04/25/2019 16:48	WG1271705
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/25/2019 16:48	WG1271705
1,2-Dibromoethane	U		0.193	0.500	1	04/25/2019 16:48	WG1271705
Dibromomethane	U		0.117	0.500	1	04/25/2019 16:48	WG1271705
1,2-Dichlorobenzene	U		0.101	0.500	1	04/25/2019 16:48	WG1271705
1,3-Dichlorobenzene	U		0.130	0.500	1	04/25/2019 16:48	WG1271705
1,4-Dichlorobenzene	U		0.121	0.500	1	04/25/2019 16:48	WG1271705
Dichlorodifluoromethane	U		0.127	2.50	1	04/25/2019 16:48	WG1271705
1,1-Dichloroethane	U		0.114	0.500	1	04/25/2019 16:48	WG1271705
1,2-Dichloroethane	U		0.108	0.500	1	04/25/2019 16:48	WG1271705
1,1-Dichloroethene	1.22		0.188	0.500	1	04/25/2019 16:48	WG1271705
cis-1,2-Dichloroethene	88.0		0.0933	0.500	1	04/25/2019 16:48	WG1271705
trans-1,2-Dichloroethene	0.209 J	J	0.152	0.500	1	04/25/2019 16:48	WG1271705
1,2-Dichloropropane	U		0.190	0.500	1	04/25/2019 16:48	WG1271705
1,1-Dichloropropene	U		0.128	0.500	1	04/25/2019 16:48	WG1271705
1,3-Dichloropropane	U		0.147	1.00	1	04/25/2019 16:48	WG1271705
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/25/2019 16:48	WG1271705
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/25/2019 16:48	WG1271705
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/25/2019 16:48	WG1271705
2,2-Dichloropropane	U		0.0929	0.500	1	04/25/2019 16:48	WG1271705
Di-isopropyl ether	U		0.0924	0.500	1	04/25/2019 16:48	WG1271705
Ethylbenzene	U		0.158	0.500	1	04/25/2019 16:48	WG1271705
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/25/2019 16:48	WG1271705
2-Hexanone	U		0.757	5.00	1	04/25/2019 16:48	WG1271705
n-Hexane	U		0.305	5.00	1	04/25/2019 16:48	WG1271705
Iodomethane	U		0.377	10.0	1	04/25/2019 16:48	WG1271705
Isopropylbenzene	U		0.126	0.500	1	04/25/2019 16:48	WG1271705
p-Isopropyltoluene	U		0.138	0.500	1	04/25/2019 16:48	WG1271705
2-Butanone (MEK)	U		1.28	5.00	1	04/25/2019 16:48	WG1271705
Methylene Chloride	U		1.07	2.50	1	04/25/2019 16:48	WG1271705
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/25/2019 16:48	WG1271705
Methyl tert-butyl ether	U		0.102	0.500	1	04/25/2019 16:48	WG1271705
Naphthalene	U		0.174	2.50	1	04/25/2019 16:48	WG1271705
n-Propylbenzene	U		0.162	0.500	1	04/25/2019 16:48	WG1271705
Styrene	U		0.117	0.500	1	04/25/2019 16:48	WG1271705
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/25/2019 16:48	WG1271705
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/25/2019 16:48	WG1271705

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	04/25/2019 16:48	WG1271705
Tetrachloroethene	U			0.199	0.500	1	04/25/2019 16:48	WG1271705
Toluene	U			0.412	0.500	1	04/25/2019 16:48	WG1271705
1,2,3-Trichlorobenzene	U			0.164	0.500	1	04/25/2019 16:48	WG1271705
1,2,4-Trichlorobenzene	U			0.355	0.500	1	04/25/2019 16:48	WG1271705
1,1,1-Trichloroethane	U			0.0940	0.500	1	04/25/2019 16:48	WG1271705
1,1,2-Trichloroethane	U			0.186	0.500	1	04/25/2019 16:48	WG1271705
Trichloroethene	3.09			0.153	0.500	1	04/25/2019 16:48	WG1271705
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	04/25/2019 16:48	WG1271705
1,2,3-Trichloropropane	U			0.247	2.50	1	04/25/2019 16:48	WG1271705
1,2,4-Trimethylbenzene	U			0.123	0.500	1	04/25/2019 16:48	WG1271705
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	04/25/2019 16:48	WG1271705
1,3,5-Trimethylbenzene	U			0.124	0.500	1	04/25/2019 16:48	WG1271705
Vinyl acetate	U			0.645	5.00	1	04/25/2019 16:48	WG1271705
Vinyl chloride	32.3	J	J0	0.118	0.500	1	04/25/2019 16:48	WG1271705
Xylenes, Total	U			0.316	1.50	1	04/25/2019 16:48	WG1271705
(S) Toluene-d8	*100*				*80.0-120*		*04/25/2019 16:48*	WG1271705
(S) 4-Bromofluorobenzene	*105*				*77.0-126*		*04/25/2019 16:48*	WG1271705
(S) 1,2-Dichloroethane-d4	*91.6*				*70.0-130*		*04/25/2019 16:48*	WG1271705

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.17 J	J J0 J3 J4	1.05	25.0	1	04/25/2019 17:08	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 17:08	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 17:08	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 17:08	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 17:08	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 17:08	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 17:08	WG1271705
Bromomethane	U UJ	J0	0.157	2.50	1	04/25/2019 17:08	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 17:08	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 17:08	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 17:08	WG1271705
Carbon disulfide	U		0.101	0.500	1	04/25/2019 17:08	WG1271705
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 17:08	WG1271705
Chlorobenzene	U		0.140	0.500	1	04/25/2019 17:08	WG1271705
Chlorodibromomethane	U		0.128	0.500	1	04/25/2019 17:08	WG1271705
Chloroethane	0.255 J	J J0	0.141	2.50	1	04/25/2019 17:08	WG1271705
Chloroform	U		0.0860	0.500	1	04/25/2019 17:08	WG1271705
Chloromethane	U		0.153	1.25	1	04/25/2019 17:08	WG1271705
2-Chlorotoluene	U		0.111	0.500	1	04/25/2019 17:08	WG1271705
4-Chlorotoluene	U		0.0972	0.500	1	04/25/2019 17:08	WG1271705
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/25/2019 17:08	WG1271705
1,2-Dibromoethane	U		0.193	0.500	1	04/25/2019 17:08	WG1271705
Dibromomethane	U		0.117	0.500	1	04/25/2019 17:08	WG1271705
1,2-Dichlorobenzene	U		0.101	0.500	1	04/25/2019 17:08	WG1271705
1,3-Dichlorobenzene	U		0.130	0.500	1	04/25/2019 17:08	WG1271705
1,4-Dichlorobenzene	U		0.121	0.500	1	04/25/2019 17:08	WG1271705
Dichlorodifluoromethane	U		0.127	2.50	1	04/25/2019 17:08	WG1271705
1,1-Dichloroethane	U		0.114	0.500	1	04/25/2019 17:08	WG1271705
1,2-Dichloroethane	U		0.108	0.500	1	04/25/2019 17:08	WG1271705
1,1-Dichloroethene	U		0.188	0.500	1	04/25/2019 17:08	WG1271705
cis-1,2-Dichloroethene	3.18		0.0933	0.500	1	04/25/2019 17:08	WG1271705
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/25/2019 17:08	WG1271705
1,2-Dichloropropane	U		0.190	0.500	1	04/25/2019 17:08	WG1271705
1,1-Dichloropropene	U		0.128	0.500	1	04/25/2019 17:08	WG1271705
1,3-Dichloropropane	U		0.147	1.00	1	04/25/2019 17:08	WG1271705
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/25/2019 17:08	WG1271705
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/25/2019 17:08	WG1271705
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/25/2019 17:08	WG1271705
2,2-Dichloropropane	U		0.0929	0.500	1	04/25/2019 17:08	WG1271705
Di-isopropyl ether	U		0.0924	0.500	1	04/25/2019 17:08	WG1271705
Ethylbenzene	U		0.158	0.500	1	04/25/2019 17:08	WG1271705
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/25/2019 17:08	WG1271705
2-Hexanone	U		0.757	5.00	1	04/25/2019 17:08	WG1271705
n-Hexane	U		0.305	5.00	1	04/25/2019 17:08	WG1271705
Iodomethane	U		0.377	10.0	1	04/25/2019 17:08	WG1271705
Isopropylbenzene	U		0.126	0.500	1	04/25/2019 17:08	WG1271705
p-Isopropyltoluene	U		0.138	0.500	1	04/25/2019 17:08	WG1271705
2-Butanone (MEK)	U		1.28	5.00	1	04/25/2019 17:08	WG1271705
Methylene Chloride	U		1.07	2.50	1	04/25/2019 17:08	WG1271705
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/25/2019 17:08	WG1271705
Methyl tert-butyl ether	U		0.102	0.500	1	04/25/2019 17:08	WG1271705
Naphthalene	U		0.174	2.50	1	04/25/2019 17:08	WG1271705
n-Propylbenzene	U		0.162	0.500	1	04/25/2019 17:08	WG1271705
Styrene	U		0.117	0.500	1	04/25/2019 17:08	WG1271705
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/25/2019 17:08	WG1271705
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/25/2019 17:08	WG1271705

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/25/2019 17:08	WG1271705
Tetrachloroethene	U		0.199	0.500	1	04/25/2019 17:08	WG1271705
Toluene	U		0.412	0.500	1	04/25/2019 17:08	WG1271705
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/25/2019 17:08	WG1271705
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/25/2019 17:08	WG1271705
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/25/2019 17:08	WG1271705
1,1,2-Trichloroethane	U		0.186	0.500	1	04/25/2019 17:08	WG1271705
Trichloroethene	U		0.153	0.500	1	04/25/2019 17:08	WG1271705
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/25/2019 17:08	WG1271705
1,2,3-Trichloropropane	U		0.247	2.50	1	04/25/2019 17:08	WG1271705
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/25/2019 17:08	WG1271705
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/25/2019 17:08	WG1271705
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/25/2019 17:08	WG1271705
Vinyl acetate	U		0.645	5.00	1	04/25/2019 17:08	WG1271705
Vinyl chloride	19.5 J	J0	0.118	0.500	1	04/25/2019 17:08	WG1271705
Xylenes, Total	U		0.316	1.50	1	04/25/2019 17:08	WG1271705
(S) Toluene-d8	*100*			*80.0-120*		*04/25/2019 17:08*	WG1271705
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/25/2019 17:08*	WG1271705
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*		*04/25/2019 17:08*	WG1271705

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	196000		2710	20000	1	04/29/2019 17:35	WG1273424

Sample Narrative:

L1091936-03 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	18600		51.9	1000	1	04/24/2019 19:20	WG1271082
Nitrate	U		22.7	100	1	04/24/2019 19:20	WG1271082
Sulfate	5960		77.4	5000	1	04/24/2019 19:20	WG1271082

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5970		102	1000	1	04/24/2019 22:37	WG1271094

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5030		75.0	500	5	05/07/2019 00:32	WG1271169
Manganese	285		1.25	25.0	5	05/07/2019 00:32	WG1271169

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	174 J+		31.6	100	1	04/25/2019 14:32	WG1271515
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/25/2019 14:32*	WG1271515

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	437		0.287	0.678	1	04/26/2019 13:42	WG1271298
Ethane	2.60		0.296	1.29	1	04/26/2019 13:42	WG1271298
Ethene	17.7		0.422	1.27	1	04/26/2019 13:42	WG1271298

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	23.4 J	J J0	1.05	25.0	1	04/24/2019 18:16	WG1271083
Acrylonitrile	U		0.873	5.00	1	04/24/2019 18:16	WG1271083
Benzene	U		0.0896	0.500	1	04/24/2019 18:16	WG1271083
Bromobenzene	U		0.133	0.500	1	04/24/2019 18:16	WG1271083
Bromodichloromethane	U		0.0800	0.500	1	04/24/2019 18:16	WG1271083
Bromochloromethane	U		0.145	0.500	1	04/24/2019 18:16	WG1271083
Bromoform	U		0.186	0.500	1	04/24/2019 18:16	WG1271083
Bromomethane	U UJ	J0	0.157	2.50	1	04/24/2019 18:16	WG1271083
n-Butylbenzene	U		0.143	0.500	1	04/24/2019 18:16	WG1271083
sec-Butylbenzene	U		0.134	0.500	1	04/24/2019 18:16	WG1271083
tert-Butylbenzene	U		0.183	0.500	1	04/24/2019 18:16	WG1271083
Carbon disulfide	U		0.101	0.500	1	04/24/2019 18:16	WG1271083
Carbon tetrachloride	U		0.159	0.500	1	04/24/2019 18:16	WG1271083

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/24/2019 18:16	WG1271083
Chlorodibromomethane	U		0.128	0.500	1	04/24/2019 18:16	WG1271083
Chloroethane	U	UJ J0	0.141	2.50	1	04/24/2019 18:16	WG1271083
Chloroform	U		0.0860	0.500	1	04/24/2019 18:16	WG1271083
Chloromethane	U		0.153	1.25	1	04/24/2019 18:16	WG1271083
2-Chlorotoluene	U		0.111	0.500	1	04/24/2019 18:16	WG1271083
4-Chlorotoluene	U		0.0972	0.500	1	04/24/2019 18:16	WG1271083
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/24/2019 18:16	WG1271083
1,2-Dibromoethane	U		0.193	0.500	1	04/24/2019 18:16	WG1271083
Dibromomethane	U		0.117	0.500	1	04/24/2019 18:16	WG1271083
1,2-Dichlorobenzene	U		0.101	0.500	1	04/24/2019 18:16	WG1271083
1,3-Dichlorobenzene	U		0.130	0.500	1	04/24/2019 18:16	WG1271083
1,4-Dichlorobenzene	U		0.121	0.500	1	04/24/2019 18:16	WG1271083
Dichlorodifluoromethane	U		0.127	2.50	1	04/24/2019 18:16	WG1271083
1,1-Dichloroethane	U		0.114	0.500	1	04/24/2019 18:16	WG1271083
1,2-Dichloroethane	U		0.108	0.500	1	04/24/2019 18:16	WG1271083
1,1-Dichloroethene	5.86		0.188	0.500	1	04/24/2019 18:16	WG1271083
cis-1,2-Dichloroethene	162		0.0933	0.500	1	04/24/2019 18:16	WG1271083
trans-1,2-Dichloroethene	2.49		0.152	0.500	1	04/24/2019 18:16	WG1271083
1,2-Dichloropropane	U		0.190	0.500	1	04/24/2019 18:16	WG1271083
1,1-Dichloropropene	U		0.128	0.500	1	04/24/2019 18:16	WG1271083
1,3-Dichloropropane	U		0.147	1.00	1	04/24/2019 18:16	WG1271083
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/24/2019 18:16	WG1271083
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/24/2019 18:16	WG1271083
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/24/2019 18:16	WG1271083
2,2-Dichloropropane	U		0.0929	0.500	1	04/24/2019 18:16	WG1271083
Di-isopropyl ether	U		0.0924	0.500	1	04/24/2019 18:16	WG1271083
Ethylbenzene	U		0.158	0.500	1	04/24/2019 18:16	WG1271083
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/24/2019 18:16	WG1271083
2-Hexanone	U		0.757	5.00	1	04/24/2019 18:16	WG1271083
n-Hexane	U		0.305	5.00	1	04/24/2019 18:16	WG1271083
Iodomethane	U		0.377	10.0	1	04/24/2019 18:16	WG1271083
Isopropylbenzene	U		0.126	0.500	1	04/24/2019 18:16	WG1271083
p-Isopropyltoluene	U		0.138	0.500	1	04/24/2019 18:16	WG1271083
2-Butanone (MEK)	4.72	J J	1.28	5.00	1	04/24/2019 18:16	WG1271083
Methylene Chloride	U		1.07	2.50	1	04/24/2019 18:16	WG1271083
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/24/2019 18:16	WG1271083
Methyl tert-butyl ether	U		0.102	0.500	1	04/24/2019 18:16	WG1271083
Naphthalene	U		0.174	2.50	1	04/24/2019 18:16	WG1271083
n-Propylbenzene	U		0.162	0.500	1	04/24/2019 18:16	WG1271083
Styrene	U		0.117	0.500	1	04/24/2019 18:16	WG1271083
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/24/2019 18:16	WG1271083
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/24/2019 18:16	WG1271083
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/24/2019 18:16	WG1271083
Tetrachloroethene	15.9		0.199	0.500	1	04/24/2019 18:16	WG1271083
Toluene	U		0.412	0.500	1	04/24/2019 18:16	WG1271083
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/24/2019 18:16	WG1271083
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/24/2019 18:16	WG1271083
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/24/2019 18:16	WG1271083
1,1,2-Trichloroethane	U		0.186	0.500	1	04/24/2019 18:16	WG1271083
Trichloroethene	56.9		0.153	0.500	1	04/24/2019 18:16	WG1271083
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/24/2019 18:16	WG1271083
1,2,3-Trichloropropane	U		0.247	2.50	1	04/24/2019 18:16	WG1271083
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/24/2019 18:16	WG1271083
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/24/2019 18:16	WG1271083
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/24/2019 18:16	WG1271083

MW104-042319

Collected date/time: 04/23/19 08:35

SAMPLE RESULTS - 03

L1091936

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U UJ	J0	0.645	5.00	1	04/24/2019 18:16	WG1271083
Vinyl chloride	21.1 J	J0	0.118	0.500	1	04/24/2019 18:16	WG1271083
Xylenes, Total	U		0.316	1.50	1	04/24/2019 18:16	WG1271083
(S) Toluene-d8	*100*			*80.0-120*		*04/24/2019 18:16*	WG1271083
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/24/2019 18:16*	WG1271083
(S) 1,2-Dichloroethane-d4	*92.0*			*70.0-130*		*04/24/2019 18:16*	WG1271083

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	275000		2710	20000	1	04/29/2019 17:43	WG1273424

Sample Narrative:

L1091936-04 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	37900		51.9	1000	1	04/24/2019 19:35	WG1271082
Nitrate	U		22.7	100	1	04/24/2019 19:35	WG1271082
Sulfate	5810		77.4	5000	1	04/24/2019 19:35	WG1271082

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4060		102	1000	1	04/24/2019 23:17	WG1271094

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	5270		75.0	500	5	05/07/2019 00:37	WG1271169
Manganese	893		1.25	25.0	5	05/07/2019 00:37	WG1271169

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/25/2019 14:56	WG1271515
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/25/2019 14:56*	WG1271515

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	1660		0.287	0.678	1	04/26/2019 13:45	WG1271298
Ethane	U		0.296	1.29	1	04/26/2019 13:45	WG1271298
Ethene	U		0.422	1.27	1	04/26/2019 13:45	WG1271298

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Acetone	1.22	J	J J0	1.05	25.0	1	04/24/2019 18:36	WG1271083
Acrylonitrile	U			0.873	5.00	1	04/24/2019 18:36	WG1271083
Benzene	U			0.0896	0.500	1	04/24/2019 18:36	WG1271083
Bromobenzene	U			0.133	0.500	1	04/24/2019 18:36	WG1271083
Bromodichloromethane	U			0.0800	0.500	1	04/24/2019 18:36	WG1271083
Bromochloromethane	U			0.145	0.500	1	04/24/2019 18:36	WG1271083
Bromoform	U			0.186	0.500	1	04/24/2019 18:36	WG1271083
Bromomethane	U	UJ	J0	0.157	2.50	1	04/24/2019 18:36	WG1271083
n-Butylbenzene	U			0.143	0.500	1	04/24/2019 18:36	WG1271083
sec-Butylbenzene	U			0.134	0.500	1	04/24/2019 18:36	WG1271083
tert-Butylbenzene	U			0.183	0.500	1	04/24/2019 18:36	WG1271083
Carbon disulfide	U			0.101	0.500	1	04/24/2019 18:36	WG1271083
Carbon tetrachloride	U			0.159	0.500	1	04/24/2019 18:36	WG1271083

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/24/2019 18:36	WG1271083
Chlorodibromomethane	U		0.128	0.500	1	04/24/2019 18:36	WG1271083
Chloroethane	U UJ	J0	0.141	2.50	1	04/24/2019 18:36	WG1271083
Chloroform	U		0.0860	0.500	1	04/24/2019 18:36	WG1271083
Chloromethane	U		0.153	1.25	1	04/24/2019 18:36	WG1271083
2-Chlorotoluene	U		0.111	0.500	1	04/24/2019 18:36	WG1271083
4-Chlorotoluene	U		0.0972	0.500	1	04/24/2019 18:36	WG1271083
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/24/2019 18:36	WG1271083
1,2-Dibromoethane	U		0.193	0.500	1	04/24/2019 18:36	WG1271083
Dibromomethane	U		0.117	0.500	1	04/24/2019 18:36	WG1271083
1,2-Dichlorobenzene	U		0.101	0.500	1	04/24/2019 18:36	WG1271083
1,3-Dichlorobenzene	U		0.130	0.500	1	04/24/2019 18:36	WG1271083
1,4-Dichlorobenzene	U		0.121	0.500	1	04/24/2019 18:36	WG1271083
Dichlorodifluoromethane	U		0.127	2.50	1	04/24/2019 18:36	WG1271083
1,1-Dichloroethane	U		0.114	0.500	1	04/24/2019 18:36	WG1271083
1,2-Dichloroethane	U		0.108	0.500	1	04/24/2019 18:36	WG1271083
1,1-Dichloroethene	U		0.188	0.500	1	04/24/2019 18:36	WG1271083
cis-1,2-Dichloroethene	0.917		0.0933	0.500	1	04/24/2019 18:36	WG1271083
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/24/2019 18:36	WG1271083
1,2-Dichloropropane	U		0.190	0.500	1	04/24/2019 18:36	WG1271083
1,1-Dichloropropene	U		0.128	0.500	1	04/24/2019 18:36	WG1271083
1,3-Dichloropropane	U		0.147	1.00	1	04/24/2019 18:36	WG1271083
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/24/2019 18:36	WG1271083
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/24/2019 18:36	WG1271083
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/24/2019 18:36	WG1271083
2,2-Dichloropropane	U		0.0929	0.500	1	04/24/2019 18:36	WG1271083
Di-isopropyl ether	U		0.0924	0.500	1	04/24/2019 18:36	WG1271083
Ethylbenzene	U		0.158	0.500	1	04/24/2019 18:36	WG1271083
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/24/2019 18:36	WG1271083
2-Hexanone	U		0.757	5.00	1	04/24/2019 18:36	WG1271083
n-Hexane	U		0.305	5.00	1	04/24/2019 18:36	WG1271083
Iodomethane	U		0.377	10.0	1	04/24/2019 18:36	WG1271083
Isopropylbenzene	U		0.126	0.500	1	04/24/2019 18:36	WG1271083
p-Isopropyltoluene	U		0.138	0.500	1	04/24/2019 18:36	WG1271083
2-Butanone (MEK)	U		1.28	5.00	1	04/24/2019 18:36	WG1271083
Methylene Chloride	U		1.07	2.50	1	04/24/2019 18:36	WG1271083
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/24/2019 18:36	WG1271083
Methyl tert-butyl ether	U		0.102	0.500	1	04/24/2019 18:36	WG1271083
Naphthalene	U		0.174	2.50	1	04/24/2019 18:36	WG1271083
n-Propylbenzene	U		0.162	0.500	1	04/24/2019 18:36	WG1271083
Styrene	U		0.117	0.500	1	04/24/2019 18:36	WG1271083
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/24/2019 18:36	WG1271083
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/24/2019 18:36	WG1271083
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/24/2019 18:36	WG1271083
Tetrachloroethene	U		0.199	0.500	1	04/24/2019 18:36	WG1271083
Toluene	U		0.412	0.500	1	04/24/2019 18:36	WG1271083
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/24/2019 18:36	WG1271083
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/24/2019 18:36	WG1271083
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/24/2019 18:36	WG1271083
1,1,2-Trichloroethane	U		0.186	0.500	1	04/24/2019 18:36	WG1271083
Trichloroethene	U		0.153	0.500	1	04/24/2019 18:36	WG1271083
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/24/2019 18:36	WG1271083
1,2,3-Trichloropropane	U		0.247	2.50	1	04/24/2019 18:36	WG1271083
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/24/2019 18:36	WG1271083
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/24/2019 18:36	WG1271083
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/24/2019 18:36	WG1271083

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW105-042319

Collected date/time: 04/23/19 10:35

SAMPLE RESULTS - 04

L1091936

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	04/24/2019 18:36	WG1271083
Vinyl chloride	0.238	J	J J0	0.118	0.500	1	04/24/2019 18:36	WG1271083
Xylenes, Total	U			0.316	1.50	1	04/24/2019 18:36	WG1271083
(S) Toluene-d8	*101*				*80.0-120*		*04/24/2019 18:36*	WG1271083
(S) 4-Bromofluorobenzene	*105*				*77.0-126*		*04/24/2019 18:36*	WG1271083
(S) 1,2-Dichloroethane-d4	*93.1*				*70.0-130*		*04/24/2019 18:36*	WG1271083

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	346000		2710	20000	1	04/29/2019 17:50	WG1273424

Sample Narrative:

L1091936-05 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	26900		51.9	1000	1	04/24/2019 19:49	WG1271082
Nitrate	U		22.7	100	1	04/24/2019 19:49	WG1271082
Sulfate	28100		77.4	5000	1	04/24/2019 19:49	WG1271082

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	13700		102	1000	1	04/24/2019 23:34	WG1271094

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	4390		75.0	500	5	05/07/2019 00:43	WG1271169
Manganese	787		1.25	25.0	5	05/07/2019 00:43	WG1271169

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	139 J+		31.6	100	1	04/25/2019 15:20	WG1271515
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/25/2019 15:20*	WG1271515

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	8110		2.87	6.78	10	04/26/2019 14:59	WG1271298
Ethane	U		0.296	1.29	1	04/26/2019 13:49	WG1271298
Ethene	158		0.422	1.27	1	04/26/2019 13:49	WG1271298

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.91 J	J J0	1.05	25.0	1	04/24/2019 18:56	WG1271083
Acrylonitrile	U		0.873	5.00	1	04/24/2019 18:56	WG1271083
Benzene	U		0.0896	0.500	1	04/24/2019 18:56	WG1271083
Bromobenzene	U		0.133	0.500	1	04/24/2019 18:56	WG1271083
Bromodichloromethane	U		0.0800	0.500	1	04/24/2019 18:56	WG1271083
Bromochloromethane	U		0.145	0.500	1	04/24/2019 18:56	WG1271083
Bromoform	U		0.186	0.500	1	04/24/2019 18:56	WG1271083
Bromomethane	U UJ	J0	0.157	2.50	1	04/24/2019 18:56	WG1271083
n-Butylbenzene	U		0.143	0.500	1	04/24/2019 18:56	WG1271083
sec-Butylbenzene	U		0.134	0.500	1	04/24/2019 18:56	WG1271083
tert-Butylbenzene	U		0.183	0.500	1	04/24/2019 18:56	WG1271083
Carbon disulfide	U		0.101	0.500	1	04/24/2019 18:56	WG1271083
Carbon tetrachloride	U		0.159	0.500	1	04/24/2019 18:56	WG1271083

MW147-042319

Collected date/time: 04/23/19 14:00

SAMPLE RESULTS - 05

L1091936

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/24/2019 18:56	WG1271083
Chlorodibromomethane	U		0.128	0.500	1	04/24/2019 18:56	WG1271083
Chloroethane	U UJ	J0	0.141	2.50	1	04/24/2019 18:56	WG1271083
Chloroform	U		0.0860	0.500	1	04/24/2019 18:56	WG1271083
Chloromethane	U		0.153	1.25	1	04/24/2019 18:56	WG1271083
2-Chlorotoluene	U		0.111	0.500	1	04/24/2019 18:56	WG1271083
4-Chlorotoluene	U		0.0972	0.500	1	04/24/2019 18:56	WG1271083
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/24/2019 18:56	WG1271083
1,2-Dibromoethane	U		0.193	0.500	1	04/24/2019 18:56	WG1271083
Dibromomethane	U		0.117	0.500	1	04/24/2019 18:56	WG1271083
1,2-Dichlorobenzene	U		0.101	0.500	1	04/24/2019 18:56	WG1271083
1,3-Dichlorobenzene	U		0.130	0.500	1	04/24/2019 18:56	WG1271083
1,4-Dichlorobenzene	U		0.121	0.500	1	04/24/2019 18:56	WG1271083
Dichlorodifluoromethane	U		0.127	2.50	1	04/24/2019 18:56	WG1271083
1,1-Dichloroethane	U		0.114	0.500	1	04/24/2019 18:56	WG1271083
1,2-Dichloroethane	U		0.108	0.500	1	04/24/2019 18:56	WG1271083
1,1-Dichloroethene	1.75		0.188	0.500	1	04/24/2019 18:56	WG1271083
cis-1,2-Dichloroethene	322		0.933	5.00	10	04/26/2019 12:43	WG1272362
trans-1,2-Dichloroethene	1.47		0.152	0.500	1	04/24/2019 18:56	WG1271083
1,2-Dichloropropane	U		0.190	0.500	1	04/24/2019 18:56	WG1271083
1,1-Dichloropropene	U		0.128	0.500	1	04/24/2019 18:56	WG1271083
1,3-Dichloropropane	U		0.147	1.00	1	04/24/2019 18:56	WG1271083
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/24/2019 18:56	WG1271083
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/24/2019 18:56	WG1271083
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/24/2019 18:56	WG1271083
2,2-Dichloropropane	U		0.0929	0.500	1	04/24/2019 18:56	WG1271083
Di-isopropyl ether	U		0.0924	0.500	1	04/24/2019 18:56	WG1271083
Ethylbenzene	U		0.158	0.500	1	04/24/2019 18:56	WG1271083
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/24/2019 18:56	WG1271083
2-Hexanone	U		0.757	5.00	1	04/24/2019 18:56	WG1271083
n-Hexane	U		0.305	5.00	1	04/24/2019 18:56	WG1271083
Iodomethane	U		0.377	10.0	1	04/24/2019 18:56	WG1271083
Isopropylbenzene	U		0.126	0.500	1	04/24/2019 18:56	WG1271083
p-Isopropyltoluene	U		0.138	0.500	1	04/24/2019 18:56	WG1271083
2-Butanone (MEK)	U		1.28	5.00	1	04/24/2019 18:56	WG1271083
Methylene Chloride	U		1.07	2.50	1	04/24/2019 18:56	WG1271083
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/24/2019 18:56	WG1271083
Methyl tert-butyl ether	U		0.102	0.500	1	04/24/2019 18:56	WG1271083
Naphthalene	U		0.174	2.50	1	04/24/2019 18:56	WG1271083
n-Propylbenzene	U		0.162	0.500	1	04/24/2019 18:56	WG1271083
Styrene	U		0.117	0.500	1	04/24/2019 18:56	WG1271083
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/24/2019 18:56	WG1271083
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/24/2019 18:56	WG1271083
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/24/2019 18:56	WG1271083
Tetrachloroethene	U		0.199	0.500	1	04/24/2019 18:56	WG1271083
Toluene	U		0.412	0.500	1	04/24/2019 18:56	WG1271083
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/24/2019 18:56	WG1271083
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/24/2019 18:56	WG1271083
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/24/2019 18:56	WG1271083
1,1,2-Trichloroethane	U		0.186	0.500	1	04/24/2019 18:56	WG1271083
Trichloroethene	5.13		0.153	0.500	1	04/24/2019 18:56	WG1271083
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/24/2019 18:56	WG1271083
1,2,3-Trichloropropane	U		0.247	2.50	1	04/24/2019 18:56	WG1271083
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/24/2019 18:56	WG1271083
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/24/2019 18:56	WG1271083
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/24/2019 18:56	WG1271083

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U UJ	J0	0.645	5.00	1	04/24/2019 18:56	WG1271083
Vinyl chloride	499		1.18	5.00	10	04/26/2019 12:43	WG1272362
Xylenes, Total	U UJ	J0	0.316	1.50	1	04/24/2019 18:56	WG1271083
(S) Toluene-d8	*100*			*80.0-120*		*04/24/2019 18:56*	WG1271083
(S) Toluene-d8	*98.8*			*80.0-120*		*04/26/2019 12:43*	WG1272362
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/24/2019 18:56*	WG1271083
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*04/26/2019 12:43*	WG1272362
(S) 1,2-Dichloroethane-d4	*94.2*			*70.0-130*		*04/24/2019 18:56*	WG1271083
(S) 1,2-Dichloroethane-d4	*89.2*			*70.0-130*		*04/26/2019 12:43*	WG1272362

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/25/2019 12:32	WG1271515
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*04/25/2019 12:32*	WG1271515

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	04/24/2019 16:36	WG1271083
Acrylonitrile	U		0.873	5.00	1	04/24/2019 16:36	WG1271083
Benzene	U		0.0896	0.500	1	04/24/2019 16:36	WG1271083
Bromobenzene	U		0.133	0.500	1	04/24/2019 16:36	WG1271083
Bromodichloromethane	U		0.0800	0.500	1	04/24/2019 16:36	WG1271083
Bromochloromethane	U		0.145	0.500	1	04/24/2019 16:36	WG1271083
Bromoform	U		0.186	0.500	1	04/24/2019 16:36	WG1271083
Bromomethane	U	UJ J0	0.157	2.50	1	04/24/2019 16:36	WG1271083
n-Butylbenzene	U		0.143	0.500	1	04/24/2019 16:36	WG1271083
sec-Butylbenzene	U		0.134	0.500	1	04/24/2019 16:36	WG1271083
tert-Butylbenzene	U		0.183	0.500	1	04/24/2019 16:36	WG1271083
Carbon disulfide	U		0.101	0.500	1	04/24/2019 16:36	WG1271083
Carbon tetrachloride	U		0.159	0.500	1	04/24/2019 16:36	WG1271083
Chlorobenzene	U		0.140	0.500	1	04/24/2019 16:36	WG1271083
Chlorodibromomethane	U		0.128	0.500	1	04/24/2019 16:36	WG1271083
Chloroethane	U	UJ J0	0.141	2.50	1	04/24/2019 16:36	WG1271083
Chloroform	U		0.0860	0.500	1	04/24/2019 16:36	WG1271083
Chloromethane	U		0.153	1.25	1	04/24/2019 16:36	WG1271083
2-Chlorotoluene	U		0.111	0.500	1	04/24/2019 16:36	WG1271083
4-Chlorotoluene	U		0.0972	0.500	1	04/24/2019 16:36	WG1271083
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/24/2019 16:36	WG1271083
1,2-Dibromoethane	U		0.193	0.500	1	04/24/2019 16:36	WG1271083
Dibromomethane	U		0.117	0.500	1	04/24/2019 16:36	WG1271083
1,2-Dichlorobenzene	U		0.101	0.500	1	04/24/2019 16:36	WG1271083
1,3-Dichlorobenzene	U		0.130	0.500	1	04/24/2019 16:36	WG1271083
1,4-Dichlorobenzene	U		0.121	0.500	1	04/24/2019 16:36	WG1271083
Dichlorodifluoromethane	U		0.127	2.50	1	04/24/2019 16:36	WG1271083
1,1-Dichloroethane	U		0.114	0.500	1	04/24/2019 16:36	WG1271083
1,2-Dichloroethane	U		0.108	0.500	1	04/24/2019 16:36	WG1271083
1,1-Dichloroethene	U		0.188	0.500	1	04/24/2019 16:36	WG1271083
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/24/2019 16:36	WG1271083
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/24/2019 16:36	WG1271083
1,2-Dichloropropane	U		0.190	0.500	1	04/24/2019 16:36	WG1271083
1,1-Dichloropropene	U		0.128	0.500	1	04/24/2019 16:36	WG1271083
1,3-Dichloropropane	U		0.147	1.00	1	04/24/2019 16:36	WG1271083
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/24/2019 16:36	WG1271083
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/24/2019 16:36	WG1271083
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/24/2019 16:36	WG1271083
2,2-Dichloropropane	U		0.0929	0.500	1	04/24/2019 16:36	WG1271083
Di-isopropyl ether	U		0.0924	0.500	1	04/24/2019 16:36	WG1271083
Ethylbenzene	U		0.158	0.500	1	04/24/2019 16:36	WG1271083
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/24/2019 16:36	WG1271083
2-Hexanone	U		0.757	5.00	1	04/24/2019 16:36	WG1271083
n-Hexane	U		0.305	5.00	1	04/24/2019 16:36	WG1271083
Iodomethane	U		0.377	10.0	1	04/24/2019 16:36	WG1271083
Isopropylbenzene	U		0.126	0.500	1	04/24/2019 16:36	WG1271083
p-Isopropyltoluene	U		0.138	0.500	1	04/24/2019 16:36	WG1271083
2-Butanone (MEK)	U		1.28	5.00	1	04/24/2019 16:36	WG1271083

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	04/24/2019 16:36	WG1271083
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/24/2019 16:36	WG1271083
Methyl tert-butyl ether	U		0.102	0.500	1	04/24/2019 16:36	WG1271083
Naphthalene	U		0.174	2.50	1	04/24/2019 16:36	WG1271083
n-Propylbenzene	U		0.162	0.500	1	04/24/2019 16:36	WG1271083
Styrene	U		0.117	0.500	1	04/24/2019 16:36	WG1271083
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/24/2019 16:36	WG1271083
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/24/2019 16:36	WG1271083
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/24/2019 16:36	WG1271083
Tetrachloroethene	U		0.199	0.500	1	04/24/2019 16:36	WG1271083
Toluene	U		0.412	0.500	1	04/24/2019 16:36	WG1271083
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/24/2019 16:36	WG1271083
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/24/2019 16:36	WG1271083
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/24/2019 16:36	WG1271083
1,1,2-Trichloroethane	U		0.186	0.500	1	04/24/2019 16:36	WG1271083
Trichloroethene	U		0.153	0.500	1	04/24/2019 16:36	WG1271083
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/24/2019 16:36	WG1271083
1,2,3-Trichloropropane	U		0.247	2.50	1	04/24/2019 16:36	WG1271083
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/24/2019 16:36	WG1271083
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/24/2019 16:36	WG1271083
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/24/2019 16:36	WG1271083
Vinyl acetate	U	UJ J0	0.645	5.00	1	04/24/2019 16:36	WG1271083
Vinyl chloride	U	UJ J0	0.118	0.500	1	04/24/2019 16:36	WG1271083
Xylenes, Total	U		0.316	1.50	1	04/24/2019 16:36	WG1271083
(S) Toluene-d8	*100*			*80.0-120*		*04/24/2019 16:36*	WG1271083
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/24/2019 16:36*	WG1271083
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*04/24/2019 16:36*	WG1271083

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	799000		2710	20000	1	04/30/2019 17:24	WG1273427

Sample Narrative:

L1091958-01 WG1273427: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	86700		51.9	1000	1	04/24/2019 23:40	WG1271082
Nitrate	U		22.7	100	1	04/24/2019 23:40	WG1271082
Sulfate	U		77.4	5000	1	04/24/2019 23:40	WG1271082

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	26100		102	1000	1	04/24/2019 17:57	WG1271096

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	13400		300	2000	20	05/07/2019 00:48	WG1271171
Manganese	3430		5.00	100	20	05/07/2019 00:48	WG1271171

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	429 J+		31.6	100	1	04/25/2019 15:43	WG1271515
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/25/2019 15:43*	WG1271515

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	10600		5.74	13.6	20	04/30/2019 14:04	WG1273649
Ethane	45.2		0.296	1.29	1	04/26/2019 14:48	WG1271298
Ethene	37.4		0.422	1.27	1	04/26/2019 14:48	WG1271298

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.25 J	J J0 J3 J4	1.05	25.0	1	04/25/2019 17:28	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 17:28	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 17:28	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 17:28	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 17:28	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 17:28	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 17:28	WG1271705
Bromomethane	U UJ	J0	0.157	2.50	1	04/25/2019 17:28	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 17:28	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 17:28	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 17:28	WG1271705
Carbon disulfide	0.160 J	J	0.101	0.500	1	04/25/2019 17:28	WG1271705
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 17:28	WG1271705

JC 5/13/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/25/2019 17:28	WG1271705
Chlorodibromomethane	U		0.128	0.500	1	04/25/2019 17:28	WG1271705
Chloroethane	U UJ	J0	0.141	2.50	1	04/25/2019 17:28	WG1271705
Chloroform	U		0.0860	0.500	1	04/25/2019 17:28	WG1271705
Chloromethane	U		0.153	1.25	1	04/25/2019 17:28	WG1271705
2-Chlorotoluene	U		0.111	0.500	1	04/25/2019 17:28	WG1271705
4-Chlorotoluene	U		0.0972	0.500	1	04/25/2019 17:28	WG1271705
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/25/2019 17:28	WG1271705
1,2-Dibromoethane	U		0.193	0.500	1	04/25/2019 17:28	WG1271705
Dibromomethane	U		0.117	0.500	1	04/25/2019 17:28	WG1271705
1,2-Dichlorobenzene	U		0.101	0.500	1	04/25/2019 17:28	WG1271705
1,3-Dichlorobenzene	U		0.130	0.500	1	04/25/2019 17:28	WG1271705
1,4-Dichlorobenzene	U		0.121	0.500	1	04/25/2019 17:28	WG1271705
Dichlorodifluoromethane	U		0.127	2.50	1	04/25/2019 17:28	WG1271705
1,1-Dichloroethane	U		0.114	0.500	1	04/25/2019 17:28	WG1271705
1,2-Dichloroethane	U		0.108	0.500	1	04/25/2019 17:28	WG1271705
1,1-Dichloroethene	1.96		0.188	0.500	1	04/25/2019 17:28	WG1271705
cis-1,2-Dichloroethene	672		0.933	5.00	10	05/01/2019 02:42	WG1274056
trans-1,2-Dichloroethene	2.35		0.152	0.500	1	04/25/2019 17:28	WG1271705
1,2-Dichloropropane	U		0.190	0.500	1	04/25/2019 17:28	WG1271705
1,1-Dichloropropene	U		0.128	0.500	1	04/25/2019 17:28	WG1271705
1,3-Dichloropropane	U		0.147	1.00	1	04/25/2019 17:28	WG1271705
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/25/2019 17:28	WG1271705
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/25/2019 17:28	WG1271705
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/25/2019 17:28	WG1271705
2,2-Dichloropropane	U		0.0929	0.500	1	04/25/2019 17:28	WG1271705
Di-isopropyl ether	U		0.0924	0.500	1	04/25/2019 17:28	WG1271705
Ethylbenzene	U		0.158	0.500	1	04/25/2019 17:28	WG1271705
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/25/2019 17:28	WG1271705
2-Hexanone	U		0.757	5.00	1	04/25/2019 17:28	WG1271705
n-Hexane	U		0.305	5.00	1	04/25/2019 17:28	WG1271705
Iodomethane	U		0.377	10.0	1	04/25/2019 17:28	WG1271705
Isopropylbenzene	U		0.126	0.500	1	04/25/2019 17:28	WG1271705
p-Isopropyltoluene	U		0.138	0.500	1	04/25/2019 17:28	WG1271705
2-Butanone (MEK)	U		1.28	5.00	1	04/25/2019 17:28	WG1271705
Methylene Chloride	U		1.07	2.50	1	04/25/2019 17:28	WG1271705
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/25/2019 17:28	WG1271705
Methyl tert-butyl ether	U		0.102	0.500	1	04/25/2019 17:28	WG1271705
Naphthalene	U		0.174	2.50	1	04/25/2019 17:28	WG1271705
n-Propylbenzene	U		0.162	0.500	1	04/25/2019 17:28	WG1271705
Styrene	U		0.117	0.500	1	04/25/2019 17:28	WG1271705
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/25/2019 17:28	WG1271705
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/25/2019 17:28	WG1271705
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/25/2019 17:28	WG1271705
Tetrachloroethene	U		0.199	0.500	1	04/25/2019 17:28	WG1271705
Toluene	0.560		0.412	0.500	1	04/25/2019 17:28	WG1271705
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/25/2019 17:28	WG1271705
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/25/2019 17:28	WG1271705
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/25/2019 17:28	WG1271705
1,1,2-Trichloroethane	U		0.186	0.500	1	04/25/2019 17:28	WG1271705
Trichloroethene	40.1		0.153	0.500	1	04/25/2019 17:28	WG1271705
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/25/2019 17:28	WG1271705
1,2,3-Trichloropropane	U		0.247	2.50	1	04/25/2019 17:28	WG1271705
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/25/2019 17:28	WG1271705
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/25/2019 17:28	WG1271705
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/25/2019 17:28	WG1271705

JC 5/13/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	04/25/2019 17:28	WG1271705
Vinyl chloride	81.0 J	J0	0.118	0.500	1	04/25/2019 17:28	WG1271705
Xylenes, Total	U		0.316	1.50	1	04/25/2019 17:28	WG1271705
(S) Toluene-d8	*100*			*80.0-120*		*04/25/2019 17:28*	WG1271705
(S) Toluene-d8	*103*			*80.0-120*		*05/01/2019 02:42*	WG1274056
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/25/2019 17:28*	WG1271705
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*05/01/2019 02:42*	WG1274056
(S) 1,2-Dichloroethane-d4	*93.5*			*70.0-130*		*04/25/2019 17:28*	WG1271705
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*05/01/2019 02:42*	WG1274056

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 5/13/19

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	227000		2710	20000	1	04/30/2019 17:31	WG1273427

Sample Narrative:

L1091958-02 WG1273427: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	28100		51.9	1000	1	04/25/2019 00:09	WG1271082
Nitrate	2770		22.7	100	1	04/25/2019 00:09	WG1271082
Sulfate	44400		77.4	5000	1	04/25/2019 00:09	WG1271082

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2710	~~B~~	102	1000	1	04/24/2019 18:18	WG1271096

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	315		15.0	100	1	05/06/2019 00:10	WG1271171
Manganese	63.7		0.250	5.00	1	05/06/2019 00:10	WG1271171

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/25/2019 16:07	WG1271515
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*04/25/2019 16:07*	WG1271515

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	U		0.287	0.678	1	04/26/2019 14:51	WG1271298
Ethane	U		0.296	1.29	1	04/26/2019 14:51	WG1271298
Ethene	U		0.422	1.27	1	04/26/2019 14:51	WG1271298

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.03 J	J J0 J3 J4	1.05	25.0	1	04/25/2019 17:48	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 17:48	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 17:48	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 17:48	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 17:48	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 17:48	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 17:48	WG1271705
Bromomethane	U UJ	J0	0.157	2.50	1	04/25/2019 17:48	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 17:48	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 17:48	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 17:48	WG1271705
Carbon disulfide	U		0.101	0.500	1	04/25/2019 17:48	WG1271705
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 17:48	WG1271705

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Chlorobenzene	U		0.140	0.500	1	04/25/2019 17:48	WG1271705	
Chlorodibromomethane	U		0.128	0.500	1	04/25/2019 17:48	WG1271705	
Chloroethane	U	UJ J0	0.141	2.50	1	04/25/2019 17:48	WG1271705	
Chloroform	U		0.0860	0.500	1	04/25/2019 17:48	WG1271705	
Chloromethane	U		0.153	1.25	1	04/25/2019 17:48	WG1271705	
2-Chlorotoluene	U		0.111	0.500	1	04/25/2019 17:48	WG1271705	
4-Chlorotoluene	U		0.0972	0.500	1	04/25/2019 17:48	WG1271705	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/25/2019 17:48	WG1271705	
1,2-Dibromoethane	U		0.193	0.500	1	04/25/2019 17:48	WG1271705	
Dibromomethane	U		0.117	0.500	1	04/25/2019 17:48	WG1271705	
1,2-Dichlorobenzene	U		0.101	0.500	1	04/25/2019 17:48	WG1271705	
1,3-Dichlorobenzene	U		0.130	0.500	1	04/25/2019 17:48	WG1271705	
1,4-Dichlorobenzene	U		0.121	0.500	1	04/25/2019 17:48	WG1271705	
Dichlorodifluoromethane	U		0.127	2.50	1	04/25/2019 17:48	WG1271705	
1,1-Dichloroethane	U		0.114	0.500	1	04/25/2019 17:48	WG1271705	
1,2-Dichloroethane	U		0.108	0.500	1	04/25/2019 17:48	WG1271705	
1,1-Dichloroethene	U		0.188	0.500	1	04/25/2019 17:48	WG1271705	
cis-1,2-Dichloroethene	7.57		0.0933	0.500	1	05/01/2019 01:36	WG1274056	
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/25/2019 17:48	WG1271705	
1,2-Dichloropropane	U		0.190	0.500	1	04/25/2019 17:48	WG1271705	
1,1-Dichloropropene	U		0.128	0.500	1	04/25/2019 17:48	WG1271705	
1,3-Dichloropropane	U		0.147	1.00	1	04/25/2019 17:48	WG1271705	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/25/2019 17:48	WG1271705	
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/25/2019 17:48	WG1271705	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/25/2019 17:48	WG1271705	
2,2-Dichloropropane	U		0.0929	0.500	1	04/25/2019 17:48	WG1271705	
Di-isopropyl ether	U		0.0924	0.500	1	04/25/2019 17:48	WG1271705	
Ethylbenzene	U		0.158	0.500	1	04/25/2019 17:48	WG1271705	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/25/2019 17:48	WG1271705	
2-Hexanone	U		0.757	5.00	1	04/25/2019 17:48	WG1271705	
n-Hexane	U		0.305	5.00	1	04/25/2019 17:48	WG1271705	
Iodomethane	U		0.377	10.0	1	04/25/2019 17:48	WG1271705	
Isopropylbenzene	U		0.126	0.500	1	04/25/2019 17:48	WG1271705	
p-Isopropyltoluene	U		0.138	0.500	1	04/25/2019 17:48	WG1271705	
2-Butanone (MEK)	U		1.28	5.00	1	04/25/2019 17:48	WG1271705	
Methylene Chloride	U		1.07	2.50	1	04/25/2019 17:48	WG1271705	JC 5/13/19
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/25/2019 17:48	WG1271705	
Methyl tert-butyl ether	U		0.102	0.500	1	04/25/2019 17:48	WG1271705	
Naphthalene	U		0.174	2.50	1	04/25/2019 17:48	WG1271705	
n-Propylbenzene	U		0.162	0.500	1	04/25/2019 17:48	WG1271705	
Styrene	U		0.117	0.500	1	04/25/2019 17:48	WG1271705	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/25/2019 17:48	WG1271705	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/25/2019 17:48	WG1271705	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/25/2019 17:48	WG1271705	
Tetrachloroethene	48.8		0.199	0.500	1	04/25/2019 17:48	WG1271705	
Toluene	U		0.412	0.500	1	04/25/2019 17:48	WG1271705	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/25/2019 17:48	WG1271705	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/25/2019 17:48	WG1271705	
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/25/2019 17:48	WG1271705	
1,1,2-Trichloroethane	U		0.186	0.500	1	04/25/2019 17:48	WG1271705	
Trichloroethene	9.09		0.153	0.500	1	04/25/2019 17:48	WG1271705	
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/25/2019 17:48	WG1271705	
1,2,3-Trichloropropane	U		0.247	2.50	1	04/25/2019 17:48	WG1271705	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/25/2019 17:48	WG1271705	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/25/2019 17:48	WG1271705	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/25/2019 17:48	WG1271705	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	04/25/2019 17:48	WG1271705
Vinyl chloride	U	UJ J0	0.118	0.500	1	04/25/2019 17:48	WG1271705
Xylenes, Total	U		0.316	1.50	1	04/25/2019 17:48	WG1271705
(S) Toluene-d8	*101*			*80.0-120*		*04/25/2019 17:48*	WG1271705
(S) Toluene-d8	*103*			*80.0-120*		*05/01/2019 01:36*	WG1274056
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/25/2019 17:48*	WG1271705
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*05/01/2019 01:36*	WG1274056
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/25/2019 17:48*	WG1271705
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*05/01/2019 01:36*	WG1274056

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 5/13/19

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/25/2019 16:31	WG1271515
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/25/2019 16:31*	WG1271515

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.86 J	J J0 J3 J4	1.05	25.0	1	04/25/2019 18:09	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 18:09	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 18:09	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 18:09	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 18:09	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 18:09	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 18:09	WG1271705
Bromomethane	U UJ	J0	0.157	2.50	1	04/25/2019 18:09	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 18:09	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 18:09	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 18:09	WG1271705
Carbon disulfide	U		0.101	0.500	1	04/25/2019 18:09	WG1271705
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 18:09	WG1271705
Chlorobenzene	U		0.140	0.500	1	04/25/2019 18:09	WG1271705
Chlorodibromomethane	U		0.128	0.500	1	04/25/2019 18:09	WG1271705
Chloroethane	U UJ	J0	0.141	2.50	1	04/25/2019 18:09	WG1271705
Chloroform	U		0.0860	0.500	1	04/25/2019 18:09	WG1271705
Chloromethane	U		0.153	1.25	1	04/25/2019 18:09	WG1271705
2-Chlorotoluene	U		0.111	0.500	1	04/25/2019 18:09	WG1271705
4-Chlorotoluene	U		0.0972	0.500	1	04/25/2019 18:09	WG1271705
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/25/2019 18:09	WG1271705
1,2-Dibromoethane	U		0.193	0.500	1	04/25/2019 18:09	WG1271705
Dibromomethane	U		0.117	0.500	1	04/25/2019 18:09	WG1271705
1,2-Dichlorobenzene	U		0.101	0.500	1	04/25/2019 18:09	WG1271705
1,3-Dichlorobenzene	U		0.130	0.500	1	04/25/2019 18:09	WG1271705
1,4-Dichlorobenzene	U		0.121	0.500	1	04/25/2019 18:09	WG1271705
Dichlorodifluoromethane	U		0.127	2.50	1	04/25/2019 18:09	WG1271705
1,1-Dichloroethane	U		0.114	0.500	1	04/25/2019 18:09	WG1271705
1,2-Dichloroethane	U		0.108	0.500	1	04/25/2019 18:09	WG1271705
1,1-Dichloroethene	0.249 J	J	0.188	0.500	1	04/25/2019 18:09	WG1271705
cis-1,2-Dichloroethene	71.9		0.0933	0.500	1	04/25/2019 18:09	WG1271705
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/25/2019 18:09	WG1271705
1,2-Dichloropropane	U		0.190	0.500	1	04/25/2019 18:09	WG1271705
1,1-Dichloropropene	U		0.128	0.500	1	04/25/2019 18:09	WG1271705
1,3-Dichloropropane	U		0.147	1.00	1	04/25/2019 18:09	WG1271705
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/25/2019 18:09	WG1271705
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/25/2019 18:09	WG1271705
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/25/2019 18:09	WG1271705
2,2-Dichloropropane	U		0.0929	0.500	1	04/25/2019 18:09	WG1271705
Di-isopropyl ether	U		0.0924	0.500	1	04/25/2019 18:09	WG1271705
Ethylbenzene	U		0.158	0.500	1	04/25/2019 18:09	WG1271705
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/25/2019 18:09	WG1271705
2-Hexanone	U		0.757	5.00	1	04/25/2019 18:09	WG1271705
n-Hexane	U		0.305	5.00	1	04/25/2019 18:09	WG1271705
Iodomethane	U		0.377	10.0	1	04/25/2019 18:09	WG1271705
Isopropylbenzene	U		0.126	0.500	1	04/25/2019 18:09	WG1271705
p-Isopropyltoluene	U		0.138	0.500	1	04/25/2019 18:09	WG1271705
2-Butanone (MEK)	U		1.28	5.00	1	04/25/2019 18:09	WG1271705

JC 5/13/19

MW-155-042319

Collected date/time: 04/23/19 11:45

SAMPLE RESULTS - 03

L1091958

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	04/25/2019 18:09	WG1271705
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/25/2019 18:09	WG1271705
Methyl tert-butyl ether	U		0.102	0.500	1	04/25/2019 18:09	WG1271705
Naphthalene	U		0.174	2.50	1	04/25/2019 18:09	WG1271705
n-Propylbenzene	U		0.162	0.500	1	04/25/2019 18:09	WG1271705
Styrene	U		0.117	0.500	1	04/25/2019 18:09	WG1271705
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/25/2019 18:09	WG1271705
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/25/2019 18:09	WG1271705
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/25/2019 18:09	WG1271705
Tetrachloroethene	14.6		0.199	0.500	1	04/25/2019 18:09	WG1271705
Toluene	U		0.412	0.500	1	04/25/2019 18:09	WG1271705
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/25/2019 18:09	WG1271705
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/25/2019 18:09	WG1271705
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/25/2019 18:09	WG1271705
1,1,2-Trichloroethane	U		0.186	0.500	1	04/25/2019 18:09	WG1271705
Trichloroethene	4.75		0.153	0.500	1	04/25/2019 18:09	WG1271705
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/25/2019 18:09	WG1271705
1,2,3-Trichloropropane	U		0.247	2.50	1	04/25/2019 18:09	WG1271705
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/25/2019 18:09	WG1271705
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/25/2019 18:09	WG1271705
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/25/2019 18:09	WG1271705
Vinyl acetate	U		0.645	5.00	1	04/25/2019 18:09	WG1271705
Vinyl chloride	6.54 J	J0	0.118	0.500	1	04/25/2019 18:09	WG1271705
Xylenes, Total	U		0.316	1.50	1	04/25/2019 18:09	WG1271705
(S) Toluene-d8	*101*			*80.0-120*		*04/25/2019 18:09*	WG1271705
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/25/2019 18:09*	WG1271705
(S) 1,2-Dichloroethane-d4	*93.4*			*70.0-130*		*04/25/2019 18:09*	WG1271705

JC 5/13/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	733000		2710	20000	1	04/30/2019 17:37	WG1273427

Sample Narrative:

L1091958-04 WG1273427: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	144000		260	5000	5	04/25/2019 00:37	WG1271082
Nitrate	U		22.7	100	1	04/25/2019 00:23	WG1271082
Sulfate	U		77.4	5000	1	04/25/2019 00:23	WG1271082

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	11400		102	1000	1	04/24/2019 19:53	WG1271096

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1220		15.0	100	1	05/06/2019 00:14	WG1271171
Manganese	1480		2.50	50.0	10	05/07/2019 00:53	WG1271171

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/25/2019 16:55	WG1271515
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/25/2019 16:55*	WG1271515

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	13000		5.74	13.6	20	05/02/2019 08:44	WG1274563
Ethane	771		0.296	1.29	1	04/26/2019 14:56	WG1271298
Ethene	699		0.422	1.27	1	04/26/2019 14:56	WG1271298

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.38 J	J J0 J3 J4	1.05	25.0	1	04/25/2019 18:29	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 18:29	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 18:29	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 18:29	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 18:29	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 18:29	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 18:29	WG1271705
Bromomethane	U UJ	J0	0.157	2.50	1	04/25/2019 18:29	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 18:29	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 18:29	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 18:29	WG1271705
Carbon disulfide	0.210 J	J	0.101	0.500	1	04/25/2019 18:29	WG1271705 JC 5/13/19
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 18:29	WG1271705

MW144-042319

Collected date/time: 04/23/19 14:05

SAMPLE RESULTS - 04

L1091958

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/25/2019 18:29	WG1271705
Chlorodibromomethane	U		0.128	0.500	1	04/25/2019 18:29	WG1271705
Chloroethane	U UJ	J0	0.141	2.50	1	04/25/2019 18:29	WG1271705
Chloroform	U		0.0860	0.500	1	04/25/2019 18:29	WG1271705
Chloromethane	U		0.153	1.25	1	04/25/2019 18:29	WG1271705
2-Chlorotoluene	U		0.111	0.500	1	04/25/2019 18:29	WG1271705
4-Chlorotoluene	U		0.0972	0.500	1	04/25/2019 18:29	WG1271705
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/25/2019 18:29	WG1271705
1,2-Dibromoethane	U		0.193	0.500	1	04/25/2019 18:29	WG1271705
Dibromomethane	U		0.117	0.500	1	04/25/2019 18:29	WG1271705
1,2-Dichlorobenzene	U		0.101	0.500	1	04/25/2019 18:29	WG1271705
1,3-Dichlorobenzene	U		0.130	0.500	1	04/25/2019 18:29	WG1271705
1,4-Dichlorobenzene	U		0.121	0.500	1	04/25/2019 18:29	WG1271705
Dichlorodifluoromethane	U		0.127	2.50	1	04/25/2019 18:29	WG1271705
1,1-Dichloroethane	U		0.114	0.500	1	04/25/2019 18:29	WG1271705
1,2-Dichloroethane	U		0.108	0.500	1	04/25/2019 18:29	WG1271705
1,1-Dichloroethene	U		0.188	0.500	1	04/25/2019 18:29	WG1271705
cis-1,2-Dichloroethene	4.09		0.0933	0.500	1	04/25/2019 18:29	WG1271705
trans-1,2-Dichloroethene	0.472 J	J	0.152	0.500	1	04/25/2019 18:29	WG1271705
1,2-Dichloropropane	U		0.190	0.500	1	04/25/2019 18:29	WG1271705
1,1-Dichloropropene	U		0.128	0.500	1	04/25/2019 18:29	WG1271705
1,3-Dichloropropane	U		0.147	1.00	1	04/25/2019 18:29	WG1271705
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/25/2019 18:29	WG1271705
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/25/2019 18:29	WG1271705
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/25/2019 18:29	WG1271705
2,2-Dichloropropane	U		0.0929	0.500	1	04/25/2019 18:29	WG1271705
Di-isopropyl ether	U		0.0924	0.500	1	04/25/2019 18:29	WG1271705
Ethylbenzene	U		0.158	0.500	1	04/25/2019 18:29	WG1271705
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/25/2019 18:29	WG1271705
2-Hexanone	U		0.757	5.00	1	04/25/2019 18:29	WG1271705
n-Hexane	U		0.305	5.00	1	04/25/2019 18:29	WG1271705
Iodomethane	U		0.377	10.0	1	04/25/2019 18:29	WG1271705
Isopropylbenzene	U		0.126	0.500	1	04/25/2019 18:29	WG1271705
p-Isopropyltoluene	U		0.138	0.500	1	04/25/2019 18:29	WG1271705
2-Butanone (MEK)	U		1.28	5.00	1	04/25/2019 18:29	WG1271705
Methylene Chloride	U		1.07	2.50	1	04/25/2019 18:29	WG1271705
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/25/2019 18:29	WG1271705
Methyl tert-butyl ether	U		0.102	0.500	1	04/25/2019 18:29	WG1271705
Naphthalene	U		0.174	2.50	1	04/25/2019 18:29	WG1271705
n-Propylbenzene	U		0.162	0.500	1	04/25/2019 18:29	WG1271705
Styrene	U		0.117	0.500	1	04/25/2019 18:29	WG1271705
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/25/2019 18:29	WG1271705
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/25/2019 18:29	WG1271705
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/25/2019 18:29	WG1271705
Tetrachloroethene	U		0.199	0.500	1	04/25/2019 18:29	WG1271705
Toluene	U		0.412	0.500	1	04/25/2019 18:29	WG1271705
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/25/2019 18:29	WG1271705
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/25/2019 18:29	WG1271705
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/25/2019 18:29	WG1271705
1,1,2-Trichloroethane	U		0.186	0.500	1	04/25/2019 18:29	WG1271705
Trichloroethene	0.158 J	J	0.153	0.500	1	04/25/2019 18:29	WG1271705
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/25/2019 18:29	WG1271705
1,2,3-Trichloropropane	U		0.247	2.50	1	04/25/2019 18:29	WG1271705
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/25/2019 18:29	WG1271705
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/25/2019 18:29	WG1271705
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/25/2019 18:29	WG1271705

JC 5/13/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	04/25/2019 18:29	WG1271705
Vinyl chloride	7.30 J	J0	0.118	0.500	1	04/25/2019 18:29	WG1271705
Xylenes, Total	U		0.316	1.50	1	04/25/2019 18:29	WG1271705
(S) Toluene-d8	*101*			*80.0-120*		*04/25/2019 18:29*	WG1271705
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/25/2019 18:29*	WG1271705
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*		*04/25/2019 18:29*	WG1271705

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 5/13/19

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/25/2019 12:56	WG1271515
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/25/2019 12:56*	WG1271515

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	J3 J4	1.05	25.0	1	04/25/2019 16:08	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 16:08	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 16:08	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 16:08	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 16:08	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 16:08	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 16:08	WG1271705
Bromomethane	U	UJ J0	0.157	2.50	1	04/25/2019 16:08	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 16:08	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 16:08	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 16:08	WG1271705
Carbon disulfide	U		0.101	0.500	1	04/25/2019 16:08	WG1271705
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 16:08	WG1271705
Chlorobenzene	U		0.140	0.500	1	04/25/2019 16:08	WG1271705
Chlorodibromomethane	U		0.128	0.500	1	04/25/2019 16:08	WG1271705
Chloroethane	U	UJ J0	0.141	2.50	1	04/25/2019 16:08	WG1271705
Chloroform	U		0.0860	0.500	1	04/25/2019 16:08	WG1271705
Chloromethane	U		0.153	1.25	1	04/25/2019 16:08	WG1271705
2-Chlorotoluene	U		0.111	0.500	1	04/25/2019 16:08	WG1271705
4-Chlorotoluene	U		0.0972	0.500	1	04/25/2019 16:08	WG1271705
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/25/2019 16:08	WG1271705
1,2-Dibromoethane	U		0.193	0.500	1	04/25/2019 16:08	WG1271705
Dibromomethane	U		0.117	0.500	1	04/25/2019 16:08	WG1271705
1,2-Dichlorobenzene	U		0.101	0.500	1	04/25/2019 16:08	WG1271705
1,3-Dichlorobenzene	U		0.130	0.500	1	04/25/2019 16:08	WG1271705
1,4-Dichlorobenzene	U		0.121	0.500	1	04/25/2019 16:08	WG1271705
Dichlorodifluoromethane	U		0.127	2.50	1	04/25/2019 16:08	WG1271705
1,1-Dichloroethane	U		0.114	0.500	1	04/25/2019 16:08	WG1271705
1,2-Dichloroethane	U		0.108	0.500	1	04/25/2019 16:08	WG1271705
1,1-Dichloroethene	U		0.188	0.500	1	04/25/2019 16:08	WG1271705
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/25/2019 16:08	WG1271705
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/25/2019 16:08	WG1271705
1,2-Dichloropropane	U		0.190	0.500	1	04/25/2019 16:08	WG1271705
1,1-Dichloropropene	U		0.128	0.500	1	04/25/2019 16:08	WG1271705
1,3-Dichloropropane	U		0.147	1.00	1	04/25/2019 16:08	WG1271705
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/25/2019 16:08	WG1271705
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/25/2019 16:08	WG1271705
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/25/2019 16:08	WG1271705
2,2-Dichloropropane	U		0.0929	0.500	1	04/25/2019 16:08	WG1271705
Di-isopropyl ether	U		0.0924	0.500	1	04/25/2019 16:08	WG1271705
Ethylbenzene	U		0.158	0.500	1	04/25/2019 16:08	WG1271705
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/25/2019 16:08	WG1271705
2-Hexanone	U		0.757	5.00	1	04/25/2019 16:08	WG1271705
n-Hexane	U		0.305	5.00	1	04/25/2019 16:08	WG1271705
Iodomethane	U		0.377	10.0	1	04/25/2019 16:08	WG1271705
Isopropylbenzene	U		0.126	0.500	1	04/25/2019 16:08	WG1271705
p-Isopropyltoluene	U		0.138	0.500	1	04/25/2019 16:08	WG1271705
2-Butanone (MEK)	U		1.28	5.00	1	04/25/2019 16:08	WG1271705

JC 5/13/19

TRIP BLANK-042319

Collected date/time: 04/23/19 00:00

SAMPLE RESULTS - 05

L1091958

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	04/25/2019 16:08	WG1271705
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/25/2019 16:08	WG1271705
Methyl tert-butyl ether	U		0.102	0.500	1	04/25/2019 16:08	WG1271705
Naphthalene	U		0.174	2.50	1	04/25/2019 16:08	WG1271705
n-Propylbenzene	U		0.162	0.500	1	04/25/2019 16:08	WG1271705
Styrene	U		0.117	0.500	1	04/25/2019 16:08	WG1271705
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/25/2019 16:08	WG1271705
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/25/2019 16:08	WG1271705
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/25/2019 16:08	WG1271705
Tetrachloroethene	U		0.199	0.500	1	04/25/2019 16:08	WG1271705
Toluene	U		0.412	0.500	1	04/25/2019 16:08	WG1271705
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/25/2019 16:08	WG1271705
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/25/2019 16:08	WG1271705
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/25/2019 16:08	WG1271705
1,1,2-Trichloroethane	U		0.186	0.500	1	04/25/2019 16:08	WG1271705
Trichloroethene	U		0.153	0.500	1	04/25/2019 16:08	WG1271705
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/25/2019 16:08	WG1271705
1,2,3-Trichloropropane	U		0.247	2.50	1	04/25/2019 16:08	WG1271705
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/25/2019 16:08	WG1271705
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/25/2019 16:08	WG1271705
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/25/2019 16:08	WG1271705
Vinyl acetate	U		0.645	5.00	1	04/25/2019 16:08	WG1271705
Vinyl chloride	U UJ	J0	0.118	0.500	1	04/25/2019 16:08	WG1271705
Xylenes, Total	U		0.316	1.50	1	04/25/2019 16:08	WG1271705
(S) Toluene-d8	*100*			*80.0-120*		*04/25/2019 16:08*	WG1271705
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/25/2019 16:08*	WG1271705
(S) 1,2-Dichloroethane-d4	*92.3*			*70.0-130*		*04/25/2019 16:08*	WG1271705

JC 5/13/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	170000		2710	20000	1	04/30/2019 14:55	WG1273429

Sample Narrative:

L1092400-01 WG1273429: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	9160		51.9	1000	1	04/26/2019 02:48	WG1271706
Nitrate	U		22.7	100	1	04/26/2019 02:48	WG1271706
Sulfate	8910		77.4	5000	1	04/26/2019 02:48	WG1271706

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4620	~~B~~	102	1000	1	04/29/2019 19:31	WG1272243

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	1590 J		15.0	100	1	04/29/2019 15:46	WG1271843
Manganese	305		1.25	25.0	5	04/29/2019 17:16	WG1271843

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/26/2019 02:05	WG1272107
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/26/2019 02:05*	WG1272107

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	434		0.287	0.678	1	05/02/2019 14:17	WG1272501
Ethane	U		0.296	1.29	1	05/02/2019 14:17	WG1272501
Ethene	U		0.422	1.27	1	05/02/2019 14:17	WG1272501

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.21 U	J J0 J3 J4	1.05	25.0	1	04/25/2019 18:49	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 18:49	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 18:49	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 18:49	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 18:49	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 18:49	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 18:49	WG1271705
Bromomethane	U UJ	J0	0.157	2.50	1	04/25/2019 18:49	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 18:49	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 18:49	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 18:49	WG1271705
Carbon disulfide	0.303 J	J	0.101	0.500	1	04/25/2019 18:49	WG1271705
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 18:49	WG1271705

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	04/25/2019 18:49	WG1271705
Chlorodibromomethane	U		0.128	0.500	1	04/25/2019 18:49	WG1271705
Chloroethane	U UJ	J0	0.141	2.50	1	04/25/2019 18:49	WG1271705
Chloroform	U		0.0860	0.500	1	04/25/2019 18:49	WG1271705
Chloromethane	U		0.153	1.25	1	04/25/2019 18:49	WG1271705
2-Chlorotoluene	U		0.111	0.500	1	04/25/2019 18:49	WG1271705
4-Chlorotoluene	U		0.0972	0.500	1	04/25/2019 18:49	WG1271705
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/25/2019 18:49	WG1271705
1,2-Dibromoethane	U		0.193	0.500	1	04/25/2019 18:49	WG1271705
Dibromomethane	U		0.117	0.500	1	04/25/2019 18:49	WG1271705
1,2-Dichlorobenzene	U		0.101	0.500	1	04/25/2019 18:49	WG1271705
1,3-Dichlorobenzene	U		0.130	0.500	1	04/25/2019 18:49	WG1271705
1,4-Dichlorobenzene	U		0.121	0.500	1	04/25/2019 18:49	WG1271705
Dichlorodifluoromethane	U		0.127	2.50	1	04/25/2019 18:49	WG1271705
1,1-Dichloroethane	U		0.114	0.500	1	04/25/2019 18:49	WG1271705
1,2-Dichloroethane	U		0.108	0.500	1	04/25/2019 18:49	WG1271705
1,1-Dichloroethene	U		0.188	0.500	1	04/25/2019 18:49	WG1271705
cis-1,2-Dichloroethene	0.975		0.0933	0.500	1	04/25/2019 18:49	WG1271705
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/25/2019 18:49	WG1271705
1,2-Dichloropropane	U		0.190	0.500	1	04/25/2019 18:49	WG1271705
1,1-Dichloropropene	U		0.128	0.500	1	04/25/2019 18:49	WG1271705
1,3-Dichloropropane	U		0.147	1.00	1	04/25/2019 18:49	WG1271705
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/25/2019 18:49	WG1271705
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/25/2019 18:49	WG1271705
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/25/2019 18:49	WG1271705
2,2-Dichloropropane	U		0.0929	0.500	1	04/25/2019 18:49	WG1271705
Di-isopropyl ether	U		0.0924	0.500	1	04/25/2019 18:49	WG1271705
Ethylbenzene	U		0.158	0.500	1	04/25/2019 18:49	WG1271705
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/25/2019 18:49	WG1271705
2-Hexanone	U		0.757	5.00	1	04/25/2019 18:49	WG1271705
n-Hexane	U		0.305	5.00	1	04/25/2019 18:49	WG1271705
Iodomethane	U		0.377	10.0	1	04/25/2019 18:49	WG1271705
Isopropylbenzene	U		0.126	0.500	1	04/25/2019 18:49	WG1271705
p-Isopropyltoluene	U		0.138	0.500	1	04/25/2019 18:49	WG1271705
2-Butanone (MEK)	U		1.28	5.00	1	04/25/2019 18:49	WG1271705
Methylene Chloride	U		1.07	2.50	1	04/25/2019 18:49	WG1271705
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/25/2019 18:49	WG1271705
Methyl tert-butyl ether	U		0.102	0.500	1	04/25/2019 18:49	WG1271705
Naphthalene	U		0.174	2.50	1	04/25/2019 18:49	WG1271705
n-Propylbenzene	U		0.162	0.500	1	04/25/2019 18:49	WG1271705
Styrene	U		0.117	0.500	1	04/25/2019 18:49	WG1271705
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/25/2019 18:49	WG1271705
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/25/2019 18:49	WG1271705
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/25/2019 18:49	WG1271705
Tetrachloroethene	U		0.199	0.500	1	04/25/2019 18:49	WG1271705
Toluene	U		0.412	0.500	1	04/25/2019 18:49	WG1271705
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/25/2019 18:49	WG1271705
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/25/2019 18:49	WG1271705
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/25/2019 18:49	WG1271705
1,1,2-Trichloroethane	U		0.186	0.500	1	04/25/2019 18:49	WG1271705
Trichloroethene	U		0.153	0.500	1	04/25/2019 18:49	WG1271705
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/25/2019 18:49	WG1271705
1,2,3-Trichloropropane	U		0.247	2.50	1	04/25/2019 18:49	WG1271705
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/25/2019 18:49	WG1271705
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/25/2019 18:49	WG1271705
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/25/2019 18:49	WG1271705

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U			0.645	5.00	1	04/25/2019 18:49	WG1271705
Vinyl chloride	1.66	J	J0	0.118	0.500	1	04/25/2019 18:49	WG1271705
Xylenes, Total	U			0.316	1.50	1	04/25/2019 18:49	WG1271705
(S) Toluene-d8	*101*				*80.0-120*		*04/25/2019 18:49*	WG1271705
(S) 4-Bromofluorobenzene	*106*				*77.0-126*		*04/25/2019 18:49*	WG1271705
(S) 1,2-Dichloroethane-d4	*93.8*				*70.0-130*		*04/25/2019 18:49*	WG1271705

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	310000		2710	20000	1	04/30/2019 15:03	WG1273429

Sample Narrative:

L1092400-02 WG1273429: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	14800		51.9	1000	1	04/26/2019 02:59	WG1271706
Nitrate	U		22.7	100	1	04/26/2019 02:59	WG1271706
Sulfate	23300		77.4	5000	1	04/26/2019 02:59	WG1271706

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4950	~~B~~	102	1000	1	04/29/2019 19:49	WG1272243

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2870		75.0	500	5	04/29/2019 17:21	WG1271843
Manganese	770		1.25	25.0	5	04/29/2019 17:21	WG1271843

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	88.0 J	J	31.6	100	1	04/26/2019 02:29	WG1272107
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/26/2019 02:29*	WG1272107

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	5090		0.287	0.678	1	05/02/2019 14:20	WG1272501
Ethane	4.00		0.296	1.29	1	05/02/2019 14:20	WG1272501
Ethene	347		0.422	1.27	1	05/02/2019 14:20	WG1272501

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.58 U	J J0 J3 J4	1.05	25.0	1	04/25/2019 19:09	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 19:09	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 19:09	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 19:09	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 19:09	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 19:09	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 19:09	WG1271705
Bromomethane	U UJ	J0	0.157	2.50	1	04/25/2019 19:09	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 19:09	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 19:09	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 19:09	WG1271705
Carbon disulfide	U		0.101	0.500	1	04/25/2019 19:09	WG1271705
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 19:09	WG1271705

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Chlorobenzene	U			0.140	0.500	1	04/25/2019 19:09	WG1271705
Chlorodibromomethane	U			0.128	0.500	1	04/25/2019 19:09	WG1271705
Chloroethane	0.719	J	J J0	0.141	2.50	1	04/25/2019 19:09	WG1271705
Chloroform	U			0.0860	0.500	1	04/25/2019 19:09	WG1271705
Chloromethane	U			0.153	1.25	1	04/25/2019 19:09	WG1271705
2-Chlorotoluene	U			0.111	0.500	1	04/25/2019 19:09	WG1271705
4-Chlorotoluene	U			0.0972	0.500	1	04/25/2019 19:09	WG1271705
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	04/25/2019 19:09	WG1271705
1,2-Dibromoethane	U			0.193	0.500	1	04/25/2019 19:09	WG1271705
Dibromomethane	U			0.117	0.500	1	04/25/2019 19:09	WG1271705
1,2-Dichlorobenzene	U			0.101	0.500	1	04/25/2019 19:09	WG1271705
1,3-Dichlorobenzene	U			0.130	0.500	1	04/25/2019 19:09	WG1271705
1,4-Dichlorobenzene	U			0.121	0.500	1	04/25/2019 19:09	WG1271705
Dichlorodifluoromethane	U			0.127	2.50	1	04/25/2019 19:09	WG1271705
1,1-Dichloroethane	U			0.114	0.500	1	04/25/2019 19:09	WG1271705
1,2-Dichloroethane	U			0.108	0.500	1	04/25/2019 19:09	WG1271705
1,1-Dichloroethene	1.04			0.188	0.500	1	04/25/2019 19:09	WG1271705
cis-1,2-Dichloroethene	257			0.933	5.00	10	05/01/2019 03:04	WG1274056
trans-1,2-Dichloroethene	1.94			0.152	0.500	1	04/25/2019 19:09	WG1271705
1,2-Dichloropropane	U			0.190	0.500	1	04/25/2019 19:09	WG1271705
1,1-Dichloropropene	U			0.128	0.500	1	04/25/2019 19:09	WG1271705
1,3-Dichloropropane	U			0.147	1.00	1	04/25/2019 19:09	WG1271705
cis-1,3-Dichloropropene	U			0.0976	0.500	1	04/25/2019 19:09	WG1271705
trans-1,3-Dichloropropene	U			0.222	0.500	1	04/25/2019 19:09	WG1271705
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	04/25/2019 19:09	WG1271705
2,2-Dichloropropane	U			0.0929	0.500	1	04/25/2019 19:09	WG1271705
Di-isopropyl ether	U			0.0924	0.500	1	04/25/2019 19:09	WG1271705
Ethylbenzene	U			0.158	0.500	1	04/25/2019 19:09	WG1271705
Hexachloro-1,3-butadiene	U			0.157	1.00	1	04/25/2019 19:09	WG1271705
2-Hexanone	U			0.757	5.00	1	04/25/2019 19:09	WG1271705
n-Hexane	U			0.305	5.00	1	04/25/2019 19:09	WG1271705
Iodomethane	U			0.377	10.0	1	04/25/2019 19:09	WG1271705
Isopropylbenzene	U			0.126	0.500	1	04/25/2019 19:09	WG1271705
p-Isopropyltoluene	U			0.138	0.500	1	04/25/2019 19:09	WG1271705
2-Butanone (MEK)	U			1.28	5.00	1	04/25/2019 19:09	WG1271705
Methylene Chloride	U			1.07	2.50	1	04/25/2019 19:09	WG1271705
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	04/25/2019 19:09	WG1271705
Methyl tert-butyl ether	U			0.102	0.500	1	04/25/2019 19:09	WG1271705
Naphthalene	U			0.174	2.50	1	04/25/2019 19:09	WG1271705
n-Propylbenzene	U			0.162	0.500	1	04/25/2019 19:09	WG1271705
Styrene	U			0.117	0.500	1	04/25/2019 19:09	WG1271705
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	04/25/2019 19:09	WG1271705
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	04/25/2019 19:09	WG1271705
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	04/25/2019 19:09	WG1271705
Tetrachloroethene	1.50			0.199	0.500	1	04/25/2019 19:09	WG1271705
Toluene	U			0.412	0.500	1	04/25/2019 19:09	WG1271705
1,2,3-Trichlorobenzene	U			0.164	0.500	1	04/25/2019 19:09	WG1271705
1,2,4-Trichlorobenzene	U			0.355	0.500	1	04/25/2019 19:09	WG1271705
1,1,1-Trichloroethane	U			0.0940	0.500	1	04/25/2019 19:09	WG1271705
1,1,2-Trichloroethane	U			0.186	0.500	1	04/25/2019 19:09	WG1271705
Trichloroethene	12.4			0.153	0.500	1	04/25/2019 19:09	WG1271705
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	04/25/2019 19:09	WG1271705
1,2,3-Trichloropropane	U			0.247	2.50	1	04/25/2019 19:09	WG1271705
1,2,4-Trimethylbenzene	U			0.123	0.500	1	04/25/2019 19:09	WG1271705
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	04/25/2019 19:09	WG1271705
1,3,5-Trimethylbenzene	U			0.124	0.500	1	04/25/2019 19:09	WG1271705

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	04/25/2019 19:09	WG1271705
Vinyl chloride	383		1.18	5.00	10	05/01/2019 03:04	WG1274056
Xylenes, Total	U		0.316	1.50	1	04/25/2019 19:09	WG1271705
(S) Toluene-d8	*97.1*			*80.0-120*		*04/25/2019 19:09*	WG1271705
(S) Toluene-d8	*103*			*80.0-120*		*05/01/2019 03:04*	WG1274056
(S) 4-Bromofluorobenzene	*99.8*			*77.0-126*		*04/25/2019 19:09*	WG1271705
(S) 4-Bromofluorobenzene	*99.5*			*77.0-126*		*05/01/2019 03:04*	WG1274056
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/25/2019 19:09*	WG1271705
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*05/01/2019 03:04*	WG1274056

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MW-154-042419

Collected date/time: 04/24/19 11:40

SAMPLE RESULTS - 03

L1092400

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/26/2019 02:53	WG1272107
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/26/2019 02:53*	WG1272107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.68 U	J J0 J3 J4	1.05	25.0	1	04/25/2019 19:29	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 19:29	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 19:29	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 19:29	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 19:29	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 19:29	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 19:29	WG1271705
Bromomethane	U UJ	J0	0.157	2.50	1	04/25/2019 19:29	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 19:29	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 19:29	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 19:29	WG1271705
Carbon disulfide	U		0.101	0.500	1	04/25/2019 19:29	WG1271705
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 19:29	WG1271705
Chlorobenzene	U		0.140	0.500	1	04/25/2019 19:29	WG1271705
Chlorodibromomethane	U		0.128	0.500	1	04/25/2019 19:29	WG1271705
Chloroethane	0.369 J	J J0	0.141	2.50	1	04/25/2019 19:29	WG1271705
Chloroform	U		0.0860	0.500	1	04/25/2019 19:29	WG1271705
Chloromethane	U		0.153	1.25	1	04/25/2019 19:29	WG1271705
2-Chlorotoluene	U		0.111	0.500	1	04/25/2019 19:29	WG1271705
4-Chlorotoluene	U		0.0972	0.500	1	04/25/2019 19:29	WG1271705
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/25/2019 19:29	WG1271705
1,2-Dibromoethane	U		0.193	0.500	1	04/25/2019 19:29	WG1271705
Dibromomethane	U		0.117	0.500	1	04/25/2019 19:29	WG1271705
1,2-Dichlorobenzene	U		0.101	0.500	1	04/25/2019 19:29	WG1271705
1,3-Dichlorobenzene	U		0.130	0.500	1	04/25/2019 19:29	WG1271705
1,4-Dichlorobenzene	U		0.121	0.500	1	04/25/2019 19:29	WG1271705
Dichlorodifluoromethane	U		0.127	2.50	1	04/25/2019 19:29	WG1271705
1,1-Dichloroethane	U		0.114	0.500	1	04/25/2019 19:29	WG1271705
1,2-Dichloroethane	U		0.108	0.500	1	04/25/2019 19:29	WG1271705
1,1-Dichloroethene	U		0.188	0.500	1	04/25/2019 19:29	WG1271705
cis-1,2-Dichloroethene	1.76		0.0933	0.500	1	05/01/2019 01:58	WG1274056
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/25/2019 19:29	WG1271705
1,2-Dichloropropane	U		0.190	0.500	1	04/25/2019 19:29	WG1271705
1,1-Dichloropropene	U		0.128	0.500	1	04/25/2019 19:29	WG1271705
1,3-Dichloropropane	U		0.147	1.00	1	04/25/2019 19:29	WG1271705
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/25/2019 19:29	WG1271705
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/25/2019 19:29	WG1271705
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/25/2019 19:29	WG1271705
2,2-Dichloropropane	U		0.0929	0.500	1	04/25/2019 19:29	WG1271705
Di-isopropyl ether	U		0.0924	0.500	1	04/25/2019 19:29	WG1271705
Ethylbenzene	U		0.158	0.500	1	04/25/2019 19:29	WG1271705
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/25/2019 19:29	WG1271705
2-Hexanone	U		0.757	5.00	1	04/25/2019 19:29	WG1271705
n-Hexane	U		0.305	5.00	1	04/25/2019 19:29	WG1271705
Iodomethane	U		0.377	10.0	1	04/25/2019 19:29	WG1271705
Isopropylbenzene	U		0.126	0.500	1	04/25/2019 19:29	WG1271705
p-Isopropyltoluene	U		0.138	0.500	1	04/25/2019 19:29	WG1271705
2-Butanone (MEK)	U		1.28	5.00	1	04/25/2019 19:29	WG1271705

JC 5/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	04/25/2019 19:29	WG1271705
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/25/2019 19:29	WG1271705
Methyl tert-butyl ether	U		0.102	0.500	1	04/25/2019 19:29	WG1271705
Naphthalene	U		0.174	2.50	1	04/25/2019 19:29	WG1271705
n-Propylbenzene	U		0.162	0.500	1	04/25/2019 19:29	WG1271705
Styrene	U		0.117	0.500	1	04/25/2019 19:29	WG1271705
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/25/2019 19:29	WG1271705
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/25/2019 19:29	WG1271705
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/25/2019 19:29	WG1271705
Tetrachloroethene	1.02		0.199	0.500	1	04/25/2019 19:29	WG1271705
Toluene	U		0.412	0.500	1	04/25/2019 19:29	WG1271705
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/25/2019 19:29	WG1271705
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/25/2019 19:29	WG1271705
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/25/2019 19:29	WG1271705
1,1,2-Trichloroethane	U		0.186	0.500	1	04/25/2019 19:29	WG1271705
Trichloroethene	0.214	J J	0.153	0.500	1	04/25/2019 19:29	WG1271705
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/25/2019 19:29	WG1271705
1,2,3-Trichloropropane	U		0.247	2.50	1	04/25/2019 19:29	WG1271705
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/25/2019 19:29	WG1271705
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/25/2019 19:29	WG1271705
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/25/2019 19:29	WG1271705
Vinyl acetate	U		0.645	5.00	1	04/25/2019 19:29	WG1271705
Vinyl chloride	0.797		0.118	0.500	1	05/01/2019 01:58	WG1274056
Xylenes, Total	U		0.316	1.50	1	04/25/2019 19:29	WG1271705
(S) Toluene-d8	*94.9*			*80.0-120*		*04/25/2019 19:29*	WG1271705
(S) Toluene-d8	*103*			*80.0-120*		*05/01/2019 01:58*	WG1274056
(S) 4-Bromofluorobenzene	*98.6*			*77.0-126*		*04/25/2019 19:29*	WG1271705
(S) 4-Bromofluorobenzene	*99.7*			*77.0-126*		*05/01/2019 01:58*	WG1274056
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/25/2019 19:29*	WG1271705
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*05/01/2019 01:58*	WG1274056

JC 5/9/19

MW-153-042419
Collected date/time: 04/24/19 12:55

SAMPLE RESULTS - 04

L1092400

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	174000		2710	20000	1	04/30/2019 15:10	WG1273429

Sample Narrative:

L1092400-04 WG1273429: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	9400		51.9	1000	1	04/26/2019 03:10	WG1271706
Nitrate	U		22.7	100	1	04/26/2019 03:10	WG1271706
Sulfate	9230		77.4	5000	1	04/26/2019 03:10	WG1271706

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3860	~~B~~	102	1000	1	04/29/2019 20:49	WG1272243

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3600 J		75.0	500	5	04/29/2019 17:27	WG1271843
Manganese	385		1.25	25.0	5	04/29/2019 17:27	WG1271843

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/26/2019 03:17	WG1272107
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/26/2019 03:17*	WG1272107

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	412		0.287	0.678	1	05/02/2019 15:36	WG1272501
Ethane	U		0.296	1.29	1	05/02/2019 15:36	WG1272501
Ethene	1.79		0.422	1.27	1	05/02/2019 15:36	WG1272501

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.82 U	J J0 J3 J4	1.05	25.0	1	04/25/2019 19:49	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 19:49	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 19:49	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 19:49	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 19:49	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 19:49	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 19:49	WG1271705
Bromomethane	U UJ	J0	0.157	2.50	1	04/25/2019 19:49	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 19:49	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 19:49	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 19:49	WG1271705
Carbon disulfide	0.394 J	J	0.101	0.500	1	04/25/2019 19:49	WG1271705 JC 5/9/19
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 19:49	WG1271705

Volatile Organic Compounds (GC/MS) by Method 8260C

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/25/2019 19:49	WG1271705
Chlorodibromomethane	U		0.128	0.500	1	04/25/2019 19:49	WG1271705
Chloroethane	U UJ	J0	0.141	2.50	1	04/25/2019 19:49	WG1271705
Chloroform	U		0.0860	0.500	1	04/25/2019 19:49	WG1271705
Chloromethane	U		0.153	1.25	1	04/25/2019 19:49	WG1271705
2-Chlorotoluene	U		0.111	0.500	1	04/25/2019 19:49	WG1271705
4-Chlorotoluene	U		0.0972	0.500	1	04/25/2019 19:49	WG1271705
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/25/2019 19:49	WG1271705
1,2-Dibromoethane	U		0.193	0.500	1	04/25/2019 19:49	WG1271705
Dibromomethane	U		0.117	0.500	1	04/25/2019 19:49	WG1271705
1,2-Dichlorobenzene	U		0.101	0.500	1	04/25/2019 19:49	WG1271705
1,3-Dichlorobenzene	U		0.130	0.500	1	04/25/2019 19:49	WG1271705
1,4-Dichlorobenzene	U		0.121	0.500	1	04/25/2019 19:49	WG1271705
Dichlorodifluoromethane	U		0.127	2.50	1	04/25/2019 19:49	WG1271705
1,1-Dichloroethane	U		0.114	0.500	1	04/25/2019 19:49	WG1271705
1,2-Dichloroethane	U		0.108	0.500	1	04/25/2019 19:49	WG1271705
1,1-Dichloroethene	U		0.188	0.500	1	04/25/2019 19:49	WG1271705
cis-1,2-Dichloroethene	1.07		0.0933	0.500	1	05/01/2019 02:20	WG1274056
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/25/2019 19:49	WG1271705
1,2-Dichloropropane	U		0.190	0.500	1	04/25/2019 19:49	WG1271705
1,1-Dichloropropene	U		0.128	0.500	1	04/25/2019 19:49	WG1271705
1,3-Dichloropropane	U		0.147	1.00	1	04/25/2019 19:49	WG1271705
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/25/2019 19:49	WG1271705
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/25/2019 19:49	WG1271705
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/25/2019 19:49	WG1271705
2,2-Dichloropropane	U		0.0929	0.500	1	04/25/2019 19:49	WG1271705
Di-isopropyl ether	U		0.0924	0.500	1	04/25/2019 19:49	WG1271705
Ethylbenzene	U		0.158	0.500	1	04/25/2019 19:49	WG1271705
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/25/2019 19:49	WG1271705
2-Hexanone	U		0.757	5.00	1	04/25/2019 19:49	WG1271705
n-Hexane	U		0.305	5.00	1	04/25/2019 19:49	WG1271705
Iodomethane	U		0.377	10.0	1	04/25/2019 19:49	WG1271705
Isopropylbenzene	U		0.126	0.500	1	04/25/2019 19:49	WG1271705
p-Isopropyltoluene	U		0.138	0.500	1	04/25/2019 19:49	WG1271705
2-Butanone (MEK)	U		1.28	5.00	1	04/25/2019 19:49	WG1271705
Methylene Chloride	U		1.07	2.50	1	04/25/2019 19:49	WG1271705
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/25/2019 19:49	WG1271705
Methyl tert-butyl ether	U		0.102	0.500	1	04/25/2019 19:49	WG1271705
Naphthalene	U		0.174	2.50	1	04/25/2019 19:49	WG1271705
n-Propylbenzene	U		0.162	0.500	1	04/25/2019 19:49	WG1271705
Styrene	U		0.117	0.500	1	04/25/2019 19:49	WG1271705
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/25/2019 19:49	WG1271705
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/25/2019 19:49	WG1271705
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/25/2019 19:49	WG1271705
Tetrachloroethene	U		0.199	0.500	1	04/25/2019 19:49	WG1271705
Toluene	U		0.412	0.500	1	04/25/2019 19:49	WG1271705
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/25/2019 19:49	WG1271705
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/25/2019 19:49	WG1271705
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/25/2019 19:49	WG1271705
1,1,2-Trichloroethane	U		0.186	0.500	1	04/25/2019 19:49	WG1271705
Trichloroethene	U		0.153	0.500	1	04/25/2019 19:49	WG1271705
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/25/2019 19:49	WG1271705
1,2,3-Trichloropropane	U		0.247	2.50	1	04/25/2019 19:49	WG1271705
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/25/2019 19:49	WG1271705
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/25/2019 19:49	WG1271705
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/25/2019 19:49	WG1271705

JC 5/9/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	04/25/2019 19:49	WG1271705
Vinyl chloride	2.69	J	0.118	0.500	1	05/01/2019 02:20	WG1274056
Xylenes, Total	U		0.316	1.50	1	04/25/2019 19:49	WG1271705
(S) Toluene-d8	*103*			*80.0-120*		*04/25/2019 19:49*	WG1271705
(S) Toluene-d8	*103*			*80.0-120*		*05/01/2019 02:20*	WG1274056
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*04/25/2019 19:49*	WG1271705
(S) 4-Bromofluorobenzene	*97.4*			*77.0-126*		*05/01/2019 02:20*	WG1274056
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*04/25/2019 19:49*	WG1271705
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*05/01/2019 02:20*	WG1274056

JC 5/9/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/26/2019 01:41	WG1272107
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/26/2019 01:41*	WG1272107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.76	J J0 J3 J4	1.05	25.0	1	04/25/2019 16:28	WG1271705
Acrylonitrile	U		0.873	5.00	1	04/25/2019 16:28	WG1271705
Benzene	U		0.0896	0.500	1	04/25/2019 16:28	WG1271705
Bromobenzene	U		0.133	0.500	1	04/25/2019 16:28	WG1271705
Bromodichloromethane	U		0.0800	0.500	1	04/25/2019 16:28	WG1271705
Bromochloromethane	U		0.145	0.500	1	04/25/2019 16:28	WG1271705
Bromoform	U		0.186	0.500	1	04/25/2019 16:28	WG1271705
Bromomethane	U UJ	J0	0.157	2.50	1	04/25/2019 16:28	WG1271705
n-Butylbenzene	U		0.143	0.500	1	04/25/2019 16:28	WG1271705
sec-Butylbenzene	U		0.134	0.500	1	04/25/2019 16:28	WG1271705
tert-Butylbenzene	U		0.183	0.500	1	04/25/2019 16:28	WG1271705
Carbon disulfide	U		0.101	0.500	1	04/25/2019 16:28	WG1271705
Carbon tetrachloride	U		0.159	0.500	1	04/25/2019 16:28	WG1271705
Chlorobenzene	U		0.140	0.500	1	04/25/2019 16:28	WG1271705
Chlorodibromomethane	U		0.128	0.500	1	04/25/2019 16:28	WG1271705
Chloroethane	U UJ	J0	0.141	2.50	1	04/25/2019 16:28	WG1271705
Chloroform	U		0.0860	0.500	1	04/25/2019 16:28	WG1271705
Chloromethane	U		0.153	1.25	1	04/25/2019 16:28	WG1271705
2-Chlorotoluene	U		0.111	0.500	1	04/25/2019 16:28	WG1271705
4-Chlorotoluene	U		0.0972	0.500	1	04/25/2019 16:28	WG1271705
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/25/2019 16:28	WG1271705
1,2-Dibromoethane	U		0.193	0.500	1	04/25/2019 16:28	WG1271705
Dibromomethane	U		0.117	0.500	1	04/25/2019 16:28	WG1271705
1,2-Dichlorobenzene	U		0.101	0.500	1	04/25/2019 16:28	WG1271705
1,3-Dichlorobenzene	U		0.130	0.500	1	04/25/2019 16:28	WG1271705
1,4-Dichlorobenzene	U		0.121	0.500	1	04/25/2019 16:28	WG1271705
Dichlorodifluoromethane	U		0.127	2.50	1	04/25/2019 16:28	WG1271705
1,1-Dichloroethane	U		0.114	0.500	1	04/25/2019 16:28	WG1271705
1,2-Dichloroethane	U		0.108	0.500	1	04/25/2019 16:28	WG1271705
1,1-Dichloroethene	U		0.188	0.500	1	04/25/2019 16:28	WG1271705
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/25/2019 16:28	WG1271705
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/25/2019 16:28	WG1271705
1,2-Dichloropropane	U		0.190	0.500	1	04/25/2019 16:28	WG1271705
1,1-Dichloropropene	U		0.128	0.500	1	04/25/2019 16:28	WG1271705
1,3-Dichloropropane	U		0.147	1.00	1	04/25/2019 16:28	WG1271705
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/25/2019 16:28	WG1271705
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/25/2019 16:28	WG1271705
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/25/2019 16:28	WG1271705
2,2-Dichloropropane	U		0.0929	0.500	1	04/25/2019 16:28	WG1271705
Di-isopropyl ether	U		0.0924	0.500	1	04/25/2019 16:28	WG1271705
Ethylbenzene	U		0.158	0.500	1	04/25/2019 16:28	WG1271705
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/25/2019 16:28	WG1271705
2-Hexanone	U		0.757	5.00	1	04/25/2019 16:28	WG1271705
n-Hexane	U		0.305	5.00	1	04/25/2019 16:28	WG1271705
Iodomethane	U		0.377	10.0	1	04/25/2019 16:28	WG1271705
Isopropylbenzene	U		0.126	0.500	1	04/25/2019 16:28	WG1271705
p-Isopropyltoluene	U		0.138	0.500	1	04/25/2019 16:28	WG1271705
2-Butanone (MEK)	U		1.28	5.00	1	04/25/2019 16:28	WG1271705

JC 5/9/19

TRIP BLANK-042419

Collected date/time: 04/24/19 00:00

SAMPLE RESULTS - 05

L1092400

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	04/25/2019 16:28	WG1271705
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/25/2019 16:28	WG1271705
Methyl tert-butyl ether	U		0.102	0.500	1	04/25/2019 16:28	WG1271705
Naphthalene	U		0.174	2.50	1	04/25/2019 16:28	WG1271705
n-Propylbenzene	U		0.162	0.500	1	04/25/2019 16:28	WG1271705
Styrene	U		0.117	0.500	1	04/25/2019 16:28	WG1271705
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/25/2019 16:28	WG1271705
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/25/2019 16:28	WG1271705
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/25/2019 16:28	WG1271705
Tetrachloroethene	U		0.199	0.500	1	04/25/2019 16:28	WG1271705
Toluene	U		0.412	0.500	1	04/25/2019 16:28	WG1271705
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/25/2019 16:28	WG1271705
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/25/2019 16:28	WG1271705
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/25/2019 16:28	WG1271705
1,1,2-Trichloroethane	U		0.186	0.500	1	04/25/2019 16:28	WG1271705
Trichloroethene	U		0.153	0.500	1	04/25/2019 16:28	WG1271705
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/25/2019 16:28	WG1271705
1,2,3-Trichloropropane	U		0.247	2.50	1	04/25/2019 16:28	WG1271705
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/25/2019 16:28	WG1271705
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/25/2019 16:28	WG1271705
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/25/2019 16:28	WG1271705
Vinyl acetate	U		0.645	5.00	1	04/25/2019 16:28	WG1271705
Vinyl chloride	U	UJ J0	0.118	0.500	1	04/25/2019 16:28	WG1271705
Xylenes, Total	U		0.316	1.50	1	04/25/2019 16:28	WG1271705
(S) Toluene-d8	*101*			*80.0-120*		*04/25/2019 16:28*	WG1271705
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/25/2019 16:28*	WG1271705
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*04/25/2019 16:28*	WG1271705

JC 5/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/26/2019 04:05	WG1272107
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/26/2019 04:05*	WG1272107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	6.93 U	J J0	1.05	25.0	1	04/26/2019 18:07	WG1272563
Acrylonitrile	U		0.873	5.00	1	04/26/2019 18:07	WG1272563
Benzene	U		0.0896	0.500	1	04/26/2019 18:07	WG1272563
Bromobenzene	U		0.133	0.500	1	04/26/2019 18:07	WG1272563
Bromodichloromethane	U		0.0800	0.500	1	04/26/2019 18:07	WG1272563
Bromochloromethane	U		0.145	0.500	1	04/26/2019 18:07	WG1272563
Bromoform	U		0.186	0.500	1	04/26/2019 18:07	WG1272563
Bromomethane	U UJ	J0	0.157	2.50	1	04/26/2019 18:07	WG1272563
n-Butylbenzene	U		0.143	0.500	1	04/26/2019 18:07	WG1272563
sec-Butylbenzene	U		0.134	0.500	1	04/26/2019 18:07	WG1272563
tert-Butylbenzene	U		0.183	0.500	1	04/26/2019 18:07	WG1272563
Carbon disulfide	U		0.101	0.500	1	04/26/2019 18:07	WG1272563
Carbon tetrachloride	U		0.159	0.500	1	04/26/2019 18:07	WG1272563
Chlorobenzene	U		0.140	0.500	1	04/26/2019 18:07	WG1272563
Chlorodibromomethane	U		0.128	0.500	1	04/26/2019 18:07	WG1272563
Chloroethane	U UJ	J0	0.141	2.50	1	04/26/2019 18:07	WG1272563
Chloroform	U		0.0860	0.500	1	04/26/2019 18:07	WG1272563
Chloromethane	U		0.153	1.25	1	04/26/2019 18:07	WG1272563
2-Chlorotoluene	U		0.111	0.500	1	04/26/2019 18:07	WG1272563
4-Chlorotoluene	U		0.0972	0.500	1	04/26/2019 18:07	WG1272563
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/26/2019 18:07	WG1272563
1,2-Dibromoethane	U		0.193	0.500	1	04/26/2019 18:07	WG1272563
Dibromomethane	U		0.117	0.500	1	04/26/2019 18:07	WG1272563
1,2-Dichlorobenzene	U		0.101	0.500	1	04/26/2019 18:07	WG1272563
1,3-Dichlorobenzene	U		0.130	0.500	1	04/26/2019 18:07	WG1272563
1,4-Dichlorobenzene	U		0.121	0.500	1	04/26/2019 18:07	WG1272563
Dichlorodifluoromethane	U		0.127	2.50	1	04/26/2019 18:07	WG1272563
1,1-Dichloroethane	U		0.114	0.500	1	04/26/2019 18:07	WG1272563
1,2-Dichloroethane	U		0.108	0.500	1	04/26/2019 18:07	WG1272563
1,1-Dichloroethene	U		0.188	0.500	1	04/26/2019 18:07	WG1272563
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/26/2019 18:07	WG1272563
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/26/2019 18:07	WG1272563
1,2-Dichloropropane	U		0.190	0.500	1	04/26/2019 18:07	WG1272563
1,1-Dichloropropene	U		0.128	0.500	1	04/26/2019 18:07	WG1272563
1,3-Dichloropropane	U		0.147	1.00	1	04/26/2019 18:07	WG1272563
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/26/2019 18:07	WG1272563
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/26/2019 18:07	WG1272563
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/26/2019 18:07	WG1272563
2,2-Dichloropropane	U		0.0929	0.500	1	04/26/2019 18:07	WG1272563
Di-isopropyl ether	U		0.0924	0.500	1	04/26/2019 18:07	WG1272563
Ethylbenzene	U		0.158	0.500	1	04/26/2019 18:07	WG1272563
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/26/2019 18:07	WG1272563
2-Hexanone	U	~~J3~~	0.757	5.00	1	04/26/2019 18:07	WG1272563
n-Hexane	U		0.305	5.00	1	04/26/2019 18:07	WG1272563
Iodomethane	U		0.377	10.0	1	04/26/2019 18:07	WG1272563
Isopropylbenzene	U		0.126	0.500	1	04/26/2019 18:07	WG1272563
p-Isopropyltoluene	U		0.138	0.500	1	04/26/2019 18:07	WG1272563
2-Butanone (MEK)	U		1.28	5.00	1	04/26/2019 18:07	WG1272563

JC 5/13/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	04/26/2019 18:07	WG1272563
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/26/2019 18:07	WG1272563
Methyl tert-butyl ether	U		0.102	0.500	1	04/26/2019 18:07	WG1272563
Naphthalene	U		0.174	2.50	1	04/26/2019 18:07	WG1272563
n-Propylbenzene	U		0.162	0.500	1	04/26/2019 18:07	WG1272563
Styrene	U		0.117	0.500	1	04/26/2019 18:07	WG1272563
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/26/2019 18:07	WG1272563
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/26/2019 18:07	WG1272563
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/26/2019 18:07	WG1272563
Tetrachloroethene	U		0.199	0.500	1	04/26/2019 18:07	WG1272563
Toluene	U		0.412	0.500	1	04/26/2019 18:07	WG1272563
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/26/2019 18:07	WG1272563
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/26/2019 18:07	WG1272563
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/26/2019 18:07	WG1272563
1,1,2-Trichloroethane	U		0.186	0.500	1	04/26/2019 18:07	WG1272563
Trichloroethene	U		0.153	0.500	1	04/26/2019 18:07	WG1272563
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/26/2019 18:07	WG1272563
1,2,3-Trichloropropane	U		0.247	2.50	1	04/26/2019 18:07	WG1272563
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/26/2019 18:07	WG1272563
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/26/2019 18:07	WG1272563
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/26/2019 18:07	WG1272563
Vinyl acetate	U		0.645	5.00	1	04/26/2019 18:07	WG1272563
Vinyl chloride	U	UJ J0	0.118	0.500	1	04/26/2019 18:07	WG1272563
Xylenes, Total	U		0.316	1.50	1	04/26/2019 18:07	WG1272563
(S) Toluene-d8	*96.5*			*80.0-120*		*04/26/2019 18:07*	WG1272563
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/26/2019 18:07*	WG1272563
(S) 1,2-Dichloroethane-d4	*92.7*			*70.0-130*		*04/26/2019 18:07*	WG1272563

JC 5/13/19

MW-143-042419
Collected date/time: 04/24/19 09:10

SAMPLE RESULTS - 02

L1092440

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	393000		2710	20000	1	05/02/2019 02:46	WG1273787

Sample Narrative:

L1092440-02 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	56200		51.9	1000	1	04/25/2019 17:52	WG1271815
Nitrate	U		22.7	100	1	04/25/2019 17:52	WG1271815
Sulfate	8530		77.4	5000	1	04/25/2019 17:52	WG1271815

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	7190		102	1000	1	04/26/2019 14:22	WG1272254

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	687	~~B~~	15.0	100	1	05/07/2019 21:51	WG1271844
Manganese	317		0.250	5.00	1	05/07/2019 21:51	WG1271844

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/26/2019 04:29	WG1272107
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/26/2019 04:29*	WG1272107

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	6940		5.74	13.6	20	05/02/2019 17:40	WG1275114
Ethane	125		0.296	1.29	1	05/02/2019 10:54	WG1274563
Ethene	U		0.422	1.27	1	05/02/2019 10:54	WG1274563

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.44 U	J J0	1.05	25.0	1	04/26/2019 18:27	WG1272563
Acrylonitrile	U		0.873	5.00	1	04/26/2019 18:27	WG1272563
Benzene	U		0.0896	0.500	1	04/26/2019 18:27	WG1272563
Bromobenzene	U		0.133	0.500	1	04/26/2019 18:27	WG1272563
Bromodichloromethane	U		0.0800	0.500	1	04/26/2019 18:27	WG1272563
Bromochloromethane	U		0.145	0.500	1	04/26/2019 18:27	WG1272563
Bromoform	U		0.186	0.500	1	04/26/2019 18:27	WG1272563
Bromomethane	U UJ	J0	0.157	2.50	1	04/26/2019 18:27	WG1272563
n-Butylbenzene	U		0.143	0.500	1	04/26/2019 18:27	WG1272563
sec-Butylbenzene	U		0.134	0.500	1	04/26/2019 18:27	WG1272563
tert-Butylbenzene	U		0.183	0.500	1	04/26/2019 18:27	WG1272563
Carbon disulfide	0.308 J	J J0	0.101	0.500	1	04/26/2019 18:27	WG1272563
Carbon tetrachloride	U		0.159	0.500	1	04/26/2019 18:27	WG1272563

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/26/2019 18:27	WG1272563
Chlorodibromomethane	U		0.128	0.500	1	04/26/2019 18:27	WG1272563
Chloroethane	U UJ	J0	0.141	2.50	1	04/26/2019 18:27	WG1272563
Chloroform	U		0.0860	0.500	1	04/26/2019 18:27	WG1272563
Chloromethane	U		0.153	1.25	1	04/26/2019 18:27	WG1272563
2-Chlorotoluene	U		0.111	0.500	1	04/26/2019 18:27	WG1272563
4-Chlorotoluene	U		0.0972	0.500	1	04/26/2019 18:27	WG1272563
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/26/2019 18:27	WG1272563
1,2-Dibromoethane	U		0.193	0.500	1	04/26/2019 18:27	WG1272563
Dibromomethane	U		0.117	0.500	1	04/26/2019 18:27	WG1272563
1,2-Dichlorobenzene	U		0.101	0.500	1	04/26/2019 18:27	WG1272563
1,3-Dichlorobenzene	U		0.130	0.500	1	04/26/2019 18:27	WG1272563
1,4-Dichlorobenzene	U		0.121	0.500	1	04/26/2019 18:27	WG1272563
Dichlorodifluoromethane	U		0.127	2.50	1	04/26/2019 18:27	WG1272563
1,1-Dichloroethane	U		0.114	0.500	1	04/26/2019 18:27	WG1272563
1,2-Dichloroethane	U		0.108	0.500	1	04/26/2019 18:27	WG1272563
1,1-Dichloroethene	U		0.188	0.500	1	04/26/2019 18:27	WG1272563
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/26/2019 18:27	WG1272563
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/26/2019 18:27	WG1272563
1,2-Dichloropropane	U		0.190	0.500	1	04/26/2019 18:27	WG1272563
1,1-Dichloropropene	U		0.128	0.500	1	04/26/2019 18:27	WG1272563
1,3-Dichloropropane	U		0.147	1.00	1	04/26/2019 18:27	WG1272563
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/26/2019 18:27	WG1272563
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/26/2019 18:27	WG1272563
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/26/2019 18:27	WG1272563
2,2-Dichloropropane	U		0.0929	0.500	1	04/26/2019 18:27	WG1272563
Di-isopropyl ether	U		0.0924	0.500	1	04/26/2019 18:27	WG1272563
Ethylbenzene	U		0.158	0.500	1	04/26/2019 18:27	WG1272563
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/26/2019 18:27	WG1272563
2-Hexanone	U	~~J3~~	0.757	5.00	1	04/26/2019 18:27	WG1272563
n-Hexane	U		0.305	5.00	1	04/26/2019 18:27	WG1272563
Iodomethane	U		0.377	10.0	1	04/26/2019 18:27	WG1272563
Isopropylbenzene	U		0.126	0.500	1	04/26/2019 18:27	WG1272563
p-Isopropyltoluene	U		0.138	0.500	1	04/26/2019 18:27	WG1272563
2-Butanone (MEK)	U		1.28	5.00	1	04/26/2019 18:27	WG1272563
Methylene Chloride	U		1.07	2.50	1	04/26/2019 18:27	WG1272563
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/26/2019 18:27	WG1272563
Methyl tert-butyl ether	U		0.102	0.500	1	04/26/2019 18:27	WG1272563
Naphthalene	U		0.174	2.50	1	04/26/2019 18:27	WG1272563
n-Propylbenzene	U		0.162	0.500	1	04/26/2019 18:27	WG1272563
Styrene	U		0.117	0.500	1	04/26/2019 18:27	WG1272563
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/26/2019 18:27	WG1272563
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/26/2019 18:27	WG1272563
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/26/2019 18:27	WG1272563
Tetrachloroethene	U		0.199	0.500	1	04/26/2019 18:27	WG1272563
Toluene	U		0.412	0.500	1	04/26/2019 18:27	WG1272563
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/26/2019 18:27	WG1272563
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/26/2019 18:27	WG1272563
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/26/2019 18:27	WG1272563
1,1,2-Trichloroethane	U		0.186	0.500	1	04/26/2019 18:27	WG1272563
Trichloroethene	U		0.153	0.500	1	04/26/2019 18:27	WG1272563
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/26/2019 18:27	WG1272563
1,2,3-Trichloropropane	U		0.247	2.50	1	04/26/2019 18:27	WG1272563
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/26/2019 18:27	WG1272563
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/26/2019 18:27	WG1272563
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/26/2019 18:27	WG1272563

JC 5/13/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	04/26/2019 18:27	WG1272563
Vinyl chloride	U UJ	J0	0.118	0.500	1	04/26/2019 18:27	WG1272563
Xylenes, Total	U		0.316	1.50	1	04/26/2019 18:27	WG1272563
(S) Toluene-d8	*101*			*80.0-120*		*04/26/2019 18:27*	WG1272563
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/26/2019 18:27*	WG1272563
(S) 1,2-Dichloroethane-d4	*92.2*			*70.0-130*		*04/26/2019 18:27*	WG1272563

JC 5/13/19

MW-908-042419
Collected date/time: 04/24/19 07:00

SAMPLE RESULTS - 03

L1092440

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	612000		2710	20000	1	05/02/2019 02:54	WG1273787

Sample Narrative:

L1092440-03 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	19300		51.9	1000	1	04/25/2019 18:10	WG1271815
Nitrate	259		22.7	100	1	04/25/2019 18:10	WG1271815
Sulfate	145000		387	25000	5	04/26/2019 01:16	WG1271815

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	56000		102	1000	1	04/26/2019 15:44	WG1272254

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	4760		15.0	100	1	05/07/2019 21:56	WG1271844
Manganese	9750		0.250	5.00	1	05/07/2019 21:56	WG1271844

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2600		31.6	100	1	04/26/2019 04:53	WG1272107
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*04/26/2019 04:53*	WG1272107

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1590		0.287	0.678	1	05/02/2019 10:59	WG1274563
Ethane	28.4		0.296	1.29	1	05/02/2019 10:59	WG1274563
Ethene	U		0.422	1.27	1	05/02/2019 10:59	WG1274563

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.50 U	J J0	1.05	25.0	1	04/26/2019 18:47	WG1272563
Acrylonitrile	U		0.873	5.00	1	04/26/2019 18:47	WG1272563
Benzene	0.330 J	J	0.0896	0.500	1	04/26/2019 18:47	WG1272563
Bromobenzene	U		0.133	0.500	1	04/26/2019 18:47	WG1272563
Bromodichloromethane	U		0.0800	0.500	1	04/26/2019 18:47	WG1272563
Bromochloromethane	U		0.145	0.500	1	04/26/2019 18:47	WG1272563
Bromoform	U		0.186	0.500	1	04/26/2019 18:47	WG1272563
Bromomethane	U UJ	J0	0.157	2.50	1	04/26/2019 18:47	WG1272563
n-Butylbenzene	U		0.143	0.500	1	04/26/2019 18:47	WG1272563
sec-Butylbenzene	U		0.134	0.500	1	04/26/2019 18:47	WG1272563
tert-Butylbenzene	U		0.183	0.500	1	04/26/2019 18:47	WG1272563
Carbon disulfide	U		0.101	0.500	1	04/26/2019 18:47	WG1272563
Carbon tetrachloride	U		0.159	0.500	1	04/26/2019 18:47	WG1272563

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/26/2019 18:47	WG1272563
Chlorodibromomethane	U		0.128	0.500	1	04/26/2019 18:47	WG1272563
Chloroethane	U	UJ J0	0.141	2.50	1	04/26/2019 18:47	WG1272563
Chloroform	U		0.0860	0.500	1	04/26/2019 18:47	WG1272563
Chloromethane	U		0.153	1.25	1	04/26/2019 18:47	WG1272563
2-Chlorotoluene	U		0.111	0.500	1	04/26/2019 18:47	WG1272563
4-Chlorotoluene	U		0.0972	0.500	1	04/26/2019 18:47	WG1272563
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/26/2019 18:47	WG1272563
1,2-Dibromoethane	U		0.193	0.500	1	04/26/2019 18:47	WG1272563
Dibromomethane	U		0.117	0.500	1	04/26/2019 18:47	WG1272563
1,2-Dichlorobenzene	U		0.101	0.500	1	04/26/2019 18:47	WG1272563
1,3-Dichlorobenzene	U		0.130	0.500	1	04/26/2019 18:47	WG1272563
1,4-Dichlorobenzene	U		0.121	0.500	1	04/26/2019 18:47	WG1272563
Dichlorodifluoromethane	U		0.127	2.50	1	04/26/2019 18:47	WG1272563
1,1-Dichloroethane	U		0.114	0.500	1	04/26/2019 18:47	WG1272563
1,2-Dichloroethane	U		0.108	0.500	1	04/26/2019 18:47	WG1272563
1,1-Dichloroethene	11.8		0.188	0.500	1	04/26/2019 18:47	WG1272563
cis-1,2-Dichloroethene	1760		4.66	25.0	50	05/02/2019 10:41	WG1274830
trans-1,2-Dichloroethene	9.31		0.152	0.500	1	04/26/2019 18:47	WG1272563
1,2-Dichloropropane	U		0.190	0.500	1	04/26/2019 18:47	WG1272563
1,1-Dichloropropene	U		0.128	0.500	1	04/26/2019 18:47	WG1272563
1,3-Dichloropropane	U		0.147	1.00	1	04/26/2019 18:47	WG1272563
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/26/2019 18:47	WG1272563
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/26/2019 18:47	WG1272563
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/26/2019 18:47	WG1272563
2,2-Dichloropropane	U		0.0929	0.500	1	04/26/2019 18:47	WG1272563
Di-isopropyl ether	U		0.0924	0.500	1	04/26/2019 18:47	WG1272563
Ethylbenzene	U		0.158	0.500	1	04/26/2019 18:47	WG1272563
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/26/2019 18:47	WG1272563
2-Hexanone	U	~~J3~~	0.757	5.00	1	04/26/2019 18:47	WG1272563
n-Hexane	U		0.305	5.00	1	04/26/2019 18:47	WG1272563
Iodomethane	U		0.377	10.0	1	04/26/2019 18:47	WG1272563
Isopropylbenzene	U		0.126	0.500	1	04/26/2019 18:47	WG1272563
p-Isopropyltoluene	U		0.138	0.500	1	04/26/2019 18:47	WG1272563
2-Butanone (MEK)	U		1.28	5.00	1	04/26/2019 18:47	WG1272563
Methylene Chloride	U		1.07	2.50	1	04/26/2019 18:47	WG1272563
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/26/2019 18:47	WG1272563
Methyl tert-butyl ether	U		0.102	0.500	1	04/26/2019 18:47	WG1272563
Naphthalene	U		0.174	2.50	1	04/26/2019 18:47	WG1272563
n-Propylbenzene	U		0.162	0.500	1	04/26/2019 18:47	WG1272563
Styrene	U		0.117	0.500	1	04/26/2019 18:47	WG1272563
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/26/2019 18:47	WG1272563
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/26/2019 18:47	WG1272563
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/26/2019 18:47	WG1272563
Tetrachloroethene	1440		9.95	25.0	50	05/02/2019 10:41	WG1274830
Toluene	U		0.412	0.500	1	04/26/2019 18:47	WG1272563
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/26/2019 18:47	WG1272563
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/26/2019 18:47	WG1272563
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/26/2019 18:47	WG1272563
1,1,2-Trichloroethane	U		0.186	0.500	1	04/26/2019 18:47	WG1272563
Trichloroethene	717		7.65	25.0	50	05/02/2019 10:41	WG1274830
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/26/2019 18:47	WG1272563
1,2,3-Trichloropropane	U		0.247	2.50	1	04/26/2019 18:47	WG1272563
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/26/2019 18:47	WG1272563
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/26/2019 18:47	WG1272563
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/26/2019 18:47	WG1272563

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	04/26/2019 18:47	WG1272563
Vinyl chloride	3.34 J	J0	0.118	0.500	1	04/26/2019 18:47	WG1272563
Xylenes, Total	U		0.316	1.50	1	04/26/2019 18:47	WG1272563
(S) Toluene-d8	*100*			*80.0-120*		*04/26/2019 18:47*	WG1272563
(S) Toluene-d8	*108*			*80.0-120*		*05/02/2019 10:41*	WG1274830
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/26/2019 18:47*	WG1272563
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*05/02/2019 10:41*	WG1274830
(S) 1,2-Dichloroethane-d4	*90.2*			*70.0-130*		*04/26/2019 18:47*	WG1272563
(S) 1,2-Dichloroethane-d4	*90.2*			*70.0-130*		*05/02/2019 10:41*	WG1274830

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Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	798000		2710	20000	1	05/02/2019 03:00	WG1273787

Sample Narrative:

L1092440-04 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	9760		51.9	1000	1	04/25/2019 18:28	WG1271815
Nitrate	U		22.7	100	1	04/25/2019 18:28	WG1271815
Sulfate	27300		77.4	5000	1	04/25/2019 18:28	WG1271815

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	31700		102	1000	1	04/26/2019 16:00	WG1272254

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	3500		15.0	100	1	05/07/2019 22:01	WG1271844
Manganese	1990		0.250	5.00	1	05/07/2019 22:01	WG1271844

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	04/26/2019 05:17	WG1272107
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*04/26/2019 05:17*	WG1272107

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	3560		0.287	0.678	1	05/02/2019 11:08	WG1274563
Ethane	19.2		0.296	1.29	1	05/02/2019 11:08	WG1274563
Ethene	U		0.422	1.27	1	05/02/2019 11:08	WG1274563

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l			ug/l	ug/l		date / time		
Acetone	2.52	U	J J0	1.05	25.0	1	04/26/2019 19:07	WG1272563	
Acrylonitrile	U			0.873	5.00	1	04/26/2019 19:07	WG1272563	
Benzene	0.361	J	J	0.0896	0.500	1	04/26/2019 19:07	WG1272563	
Bromobenzene	U			0.133	0.500	1	04/26/2019 19:07	WG1272563	
Bromodichloromethane	U			0.0800	0.500	1	04/26/2019 19:07	WG1272563	
Bromochloromethane	U			0.145	0.500	1	04/26/2019 19:07	WG1272563	
Bromoform	U			0.186	0.500	1	04/26/2019 19:07	WG1272563	
Bromomethane	U	UJ	J0	0.157	2.50	1	04/26/2019 19:07	WG1272563	
n-Butylbenzene	U			0.143	0.500	1	04/26/2019 19:07	WG1272563	
sec-Butylbenzene	U			0.134	0.500	1	04/26/2019 19:07	WG1272563	JC 5/13/19
tert-Butylbenzene	U			0.183	0.500	1	04/26/2019 19:07	WG1272563	
Carbon disulfide	U			0.101	0.500	1	04/26/2019 19:07	WG1272563	
Carbon tetrachloride	U			0.159	0.500	1	04/26/2019 19:07	WG1272563	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/26/2019 19:07	WG1272563
Chlorodibromomethane	U		0.128	0.500	1	04/26/2019 19:07	WG1272563
Chloroethane	U	UJ J0	0.141	2.50	1	04/26/2019 19:07	WG1272563
Chloroform	U		0.0860	0.500	1	04/26/2019 19:07	WG1272563
Chloromethane	U		0.153	1.25	1	04/26/2019 19:07	WG1272563
2-Chlorotoluene	U		0.111	0.500	1	04/26/2019 19:07	WG1272563
4-Chlorotoluene	U		0.0972	0.500	1	04/26/2019 19:07	WG1272563
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/26/2019 19:07	WG1272563
1,2-Dibromoethane	U		0.193	0.500	1	04/26/2019 19:07	WG1272563
Dibromomethane	U		0.117	0.500	1	04/26/2019 19:07	WG1272563
1,2-Dichlorobenzene	U		0.101	0.500	1	04/26/2019 19:07	WG1272563
1,3-Dichlorobenzene	U		0.130	0.500	1	04/26/2019 19:07	WG1272563
1,4-Dichlorobenzene	U		0.121	0.500	1	04/26/2019 19:07	WG1272563
Dichlorodifluoromethane	U		0.127	2.50	1	04/26/2019 19:07	WG1272563
1,1-Dichloroethane	U		0.114	0.500	1	04/26/2019 19:07	WG1272563
1,2-Dichloroethane	U		0.108	0.500	1	04/26/2019 19:07	WG1272563
1,1-Dichloroethene	U		0.188	0.500	1	04/26/2019 19:07	WG1272563
cis-1,2-Dichloroethene	5.67		0.0933	0.500	1	05/02/2019 10:21	WG1274830
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/26/2019 19:07	WG1272563
1,2-Dichloropropane	U		0.190	0.500	1	04/26/2019 19:07	WG1272563
1,1-Dichloropropene	U		0.128	0.500	1	04/26/2019 19:07	WG1272563
1,3-Dichloropropane	U		0.147	1.00	1	04/26/2019 19:07	WG1272563
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/26/2019 19:07	WG1272563
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/26/2019 19:07	WG1272563
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/26/2019 19:07	WG1272563
2,2-Dichloropropane	U		0.0929	0.500	1	04/26/2019 19:07	WG1272563
Di-isopropyl ether	U		0.0924	0.500	1	04/26/2019 19:07	WG1272563
Ethylbenzene	U		0.158	0.500	1	04/26/2019 19:07	WG1272563
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/26/2019 19:07	WG1272563
2-Hexanone	U	~~J3~~	0.757	5.00	1	04/26/2019 19:07	WG1272563
n-Hexane	U		0.305	5.00	1	04/26/2019 19:07	WG1272563
Iodomethane	U		0.377	10.0	1	04/26/2019 19:07	WG1272563
Isopropylbenzene	U		0.126	0.500	1	04/26/2019 19:07	WG1272563
p-Isopropyltoluene	U		0.138	0.500	1	04/26/2019 19:07	WG1272563
2-Butanone (MEK)	U		1.28	5.00	1	04/26/2019 19:07	WG1272563
Methylene Chloride	U		1.07	2.50	1	04/26/2019 19:07	WG1272563
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/26/2019 19:07	WG1272563
Methyl tert-butyl ether	U		0.102	0.500	1	04/26/2019 19:07	WG1272563
Naphthalene	U		0.174	2.50	1	04/26/2019 19:07	WG1272563
n-Propylbenzene	U		0.162	0.500	1	04/26/2019 19:07	WG1272563
Styrene	U		0.117	0.500	1	04/26/2019 19:07	WG1272563
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/26/2019 19:07	WG1272563
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/26/2019 19:07	WG1272563
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/26/2019 19:07	WG1272563
Tetrachloroethene	U		0.199	0.500	1	05/02/2019 10:21	WG1274830
Toluene	U		0.412	0.500	1	04/26/2019 19:07	WG1272563
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/26/2019 19:07	WG1272563
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/26/2019 19:07	WG1272563
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/26/2019 19:07	WG1272563
1,1,2-Trichloroethane	U		0.186	0.500	1	04/26/2019 19:07	WG1272563
Trichloroethene	0.156	J J	0.153	0.500	1	05/02/2019 10:21	WG1274830
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/26/2019 19:07	WG1272563
1,2,3-Trichloropropane	U		0.247	2.50	1	04/26/2019 19:07	WG1272563
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/26/2019 19:07	WG1272563
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/26/2019 19:07	WG1272563
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/26/2019 19:07	WG1272563

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U			0.645	5.00	1	04/26/2019 19:07	WG1272563
Vinyl chloride	4.39	J	J0	0.118	0.500	1	04/26/2019 19:07	WG1272563
Xylenes, Total	U			0.316	1.50	1	04/26/2019 19:07	WG1272563
(S) Toluene-d8	*100*				*80.0-120*		*04/26/2019 19:07*	WG1272563
(S) Toluene-d8	*107*				*80.0-120*		*05/02/2019 10:21*	WG1274830
(S) 4-Bromofluorobenzene	*107*				*77.0-126*		*04/26/2019 19:07*	WG1272563
(S) 4-Bromofluorobenzene	*97.3*				*77.0-126*		*05/02/2019 10:21*	WG1274830
(S) 1,2-Dichloroethane-d4	*92.9*				*70.0-130*		*04/26/2019 19:07*	WG1272563
(S) 1,2-Dichloroethane-d4	*89.2*				*70.0-130*		*05/02/2019 10:21*	WG1274830

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	618000		2710	20000	1	05/02/2019 03:08	WG1273787

Sample Narrative:

L1092440-05 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	18600		51.9	1000	1	04/25/2019 19:21	WG1271815
Nitrate	U		22.7	100	1	04/25/2019 19:21	WG1271815
Sulfate	145000		387	25000	5	04/26/2019 01:34	WG1271815

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	57300		102	1000	1	04/26/2019 16:20	WG1272254

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3810		15.0	100	1	05/07/2019 22:05	WG1271844
Manganese	9010		0.250	5.00	1	05/07/2019 22:05	WG1271844

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2570		31.6	100	1	04/26/2019 05:41	WG1272107
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*04/26/2019 05:41*	WG1272107

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1720		0.287	0.678	1	05/02/2019 11:12	WG1274563
Ethane	31.2		0.296	1.29	1	05/02/2019 11:12	WG1274563
Ethene	U		0.422	1.27	1	05/02/2019 11:12	WG1274563

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.00	U	J J0	1.05	25.0	1	04/26/2019 19:27	WG1272563
Acrylonitrile	U			0.873	5.00	1	04/26/2019 19:27	WG1272563
Benzene	0.339	J	J	0.0896	0.500	1	04/26/2019 19:27	WG1272563
Bromobenzene	U			0.133	0.500	1	04/26/2019 19:27	WG1272563
Bromodichloromethane	U			0.0800	0.500	1	04/26/2019 19:27	WG1272563
Bromochloromethane	U			0.145	0.500	1	04/26/2019 19:27	WG1272563
Bromoform	U			0.186	0.500	1	04/26/2019 19:27	WG1272563
Bromomethane	U	UJ	J0	0.157	2.50	1	04/26/2019 19:27	WG1272563
n-Butylbenzene	U			0.143	0.500	1	04/26/2019 19:27	WG1272563
sec-Butylbenzene	U			0.134	0.500	1	04/26/2019 19:27	WG1272563
tert-Butylbenzene	U			0.183	0.500	1	04/26/2019 19:27	WG1272563
Carbon disulfide	U			0.101	0.500	1	04/26/2019 19:27	WG1272563
Carbon tetrachloride	U			0.159	0.500	1	04/26/2019 19:27	WG1272563

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MW-156-042419
Collected date/time: 04/24/19 12:30

SAMPLE RESULTS - 05

L1092440

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/26/2019 19:27	WG1272563
Chlorodibromomethane	U		0.128	0.500	1	04/26/2019 19:27	WG1272563
Chloroethane	U	UJ J0	0.141	2.50	1	04/26/2019 19:27	WG1272563
Chloroform	U		0.0860	0.500	1	04/26/2019 19:27	WG1272563
Chloromethane	U		0.153	1.25	1	04/26/2019 19:27	WG1272563
2-Chlorotoluene	U		0.111	0.500	1	04/26/2019 19:27	WG1272563
4-Chlorotoluene	U		0.0972	0.500	1	04/26/2019 19:27	WG1272563
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/26/2019 19:27	WG1272563
1,2-Dibromoethane	U		0.193	0.500	1	04/26/2019 19:27	WG1272563
Dibromomethane	U		0.117	0.500	1	04/26/2019 19:27	WG1272563
1,2-Dichlorobenzene	U		0.101	0.500	1	04/26/2019 19:27	WG1272563
1,3-Dichlorobenzene	U		0.130	0.500	1	04/26/2019 19:27	WG1272563
1,4-Dichlorobenzene	U		0.121	0.500	1	04/26/2019 19:27	WG1272563
Dichlorodifluoromethane	U		0.127	2.50	1	04/26/2019 19:27	WG1272563
1,1-Dichloroethane	U		0.114	0.500	1	04/26/2019 19:27	WG1272563
1,2-Dichloroethane	U		0.108	0.500	1	04/26/2019 19:27	WG1272563
1,1-Dichloroethene	12.3		0.188	0.500	1	04/26/2019 19:27	WG1272563
cis-1,2-Dichloroethene	1770		4.66	25.0	50	05/02/2019 11:00	WG1274830
trans-1,2-Dichloroethene	9.41		0.152	0.500	1	04/26/2019 19:27	WG1272563
1,2-Dichloropropane	U		0.190	0.500	1	04/26/2019 19:27	WG1272563
1,1-Dichloropropene	U		0.128	0.500	1	04/26/2019 19:27	WG1272563
1,3-Dichloropropane	U		0.147	1.00	1	04/26/2019 19:27	WG1272563
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/26/2019 19:27	WG1272563
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/26/2019 19:27	WG1272563
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/26/2019 19:27	WG1272563
2,2-Dichloropropane	U		0.0929	0.500	1	04/26/2019 19:27	WG1272563
Di-isopropyl ether	U		0.0924	0.500	1	04/26/2019 19:27	WG1272563
Ethylbenzene	U		0.158	0.500	1	04/26/2019 19:27	WG1272563
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/26/2019 19:27	WG1272563
2-Hexanone	U	~~J3~~	0.757	5.00	1	04/26/2019 19:27	WG1272563
n-Hexane	U		0.305	5.00	1	04/26/2019 19:27	WG1272563
Iodomethane	U		0.377	10.0	1	04/26/2019 19:27	WG1272563
Isopropylbenzene	U		0.126	0.500	1	04/26/2019 19:27	WG1272563
p-Isopropyltoluene	U		0.138	0.500	1	04/26/2019 19:27	WG1272563
2-Butanone (MEK)	U		1.28	5.00	1	04/26/2019 19:27	WG1272563
Methylene Chloride	U		1.07	2.50	1	04/26/2019 19:27	WG1272563
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/26/2019 19:27	WG1272563
Methyl tert-butyl ether	U		0.102	0.500	1	04/26/2019 19:27	WG1272563
Naphthalene	U		0.174	2.50	1	04/26/2019 19:27	WG1272563
n-Propylbenzene	U		0.162	0.500	1	04/26/2019 19:27	WG1272563
Styrene	U		0.117	0.500	1	04/26/2019 19:27	WG1272563
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/26/2019 19:27	WG1272563
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/26/2019 19:27	WG1272563
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/26/2019 19:27	WG1272563
Tetrachloroethene	1430		9.95	25.0	50	05/02/2019 11:00	WG1274830
Toluene	U		0.412	0.500	1	04/26/2019 19:27	WG1272563
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/26/2019 19:27	WG1272563
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/26/2019 19:27	WG1272563
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/26/2019 19:27	WG1272563
1,1,2-Trichloroethane	U		0.186	0.500	1	04/26/2019 19:27	WG1272563
Trichloroethene	727		7.65	25.0	50	05/02/2019 11:00	WG1274830
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/26/2019 19:27	WG1272563
1,2,3-Trichloropropane	U		0.247	2.50	1	04/26/2019 19:27	WG1272563
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/26/2019 19:27	WG1272563
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/26/2019 19:27	WG1272563
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/26/2019 19:27	WG1272563

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U			0.645	5.00	1	04/26/2019 19:27	WG1272563
Vinyl chloride	3.21	J	J0	0.118	0.500	1	04/26/2019 19:27	WG1272563
Xylenes, Total	U			0.316	1.50	1	04/26/2019 19:27	WG1272563
(S) Toluene-d8	*96.4*				*80.0-120*		*04/26/2019 19:27*	WG1272563
(S) Toluene-d8	*106*				*80.0-120*		*05/02/2019 11:00*	WG1274830
(S) 4-Bromofluorobenzene	*99.4*				*77.0-126*		*04/26/2019 19:27*	WG1272563
(S) 4-Bromofluorobenzene	*99.5*				*77.0-126*		*05/02/2019 11:00*	WG1274830
(S) 1,2-Dichloroethane-d4	*105*				*70.0-130*		*04/26/2019 19:27*	WG1272563
(S) 1,2-Dichloroethane-d4	*91.1*				*70.0-130*		*05/02/2019 11:00*	WG1274830

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	513000		2710	20000	1	05/02/2019 03:22	WG1273787

Sample Narrative:

L1092440-06 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	34100		51.9	1000	1	04/25/2019 19:39	WG1271815
Nitrate	U		22.7	100	1	04/25/2019 19:39	WG1271815
Sulfate	95000		77.4	5000	1	04/25/2019 19:39	WG1271815

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	39500		102	1000	1	04/26/2019 16:35	WG1272254

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	9400		15.0	100	1	05/07/2019 22:58	WG1271844
Manganese	2130		0.250	5.00	1	05/07/2019 22:58	WG1271844

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3210		31.6	100	1	04/26/2019 06:05	WG1272107
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*04/26/2019 06:05*	WG1272107

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	5510		0.287	0.678	1	05/02/2019 11:25	WG1274563
Ethane	36.0		0.296	1.29	1	05/02/2019 11:25	WG1274563
Ethene	119		0.422	1.27	1	05/02/2019 11:25	WG1274563

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	3.28 U	J J0	1.05	25.0	1	04/26/2019 19:47	WG1272563	
Acrylonitrile	U		0.873	5.00	1	04/26/2019 19:47	WG1272563	
Benzene	0.254 J	J	0.0896	0.500	1	04/26/2019 19:47	WG1272563	
Bromobenzene	U		0.133	0.500	1	04/26/2019 19:47	WG1272563	
Bromodichloromethane	U		0.0800	0.500	1	04/26/2019 19:47	WG1272563	
Bromochloromethane	U		0.145	0.500	1	04/26/2019 19:47	WG1272563	
Bromoform	U		0.186	0.500	1	04/26/2019 19:47	WG1272563	
Bromomethane	U UJ	J0	0.157	2.50	1	04/26/2019 19:47	WG1272563	JC 5/13/19
n-Butylbenzene	U		0.143	0.500	1	04/26/2019 19:47	WG1272563	
sec-Butylbenzene	U		0.134	0.500	1	04/26/2019 19:47	WG1272563	
tert-Butylbenzene	U		0.183	0.500	1	04/26/2019 19:47	WG1272563	
Carbon disulfide	0.137 J	J	0.101	0.500	1	04/26/2019 19:47	WG1272563	
Carbon tetrachloride	U		0.159	0.500	1	04/26/2019 19:47	WG1272563	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U			0.140	0.500	1	04/26/2019 19:47	WG1272563
Chlorodibromomethane	U			0.128	0.500	1	04/26/2019 19:47	WG1272563
Chloroethane	0.752	J	J J0	0.141	2.50	1	04/26/2019 19:47	WG1272563
Chloroform	U			0.0860	0.500	1	04/26/2019 19:47	WG1272563
Chloromethane	U			0.153	1.25	1	04/26/2019 19:47	WG1272563
2-Chlorotoluene	U			0.111	0.500	1	04/26/2019 19:47	WG1272563
4-Chlorotoluene	U			0.0972	0.500	1	04/26/2019 19:47	WG1272563
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	04/26/2019 19:47	WG1272563
1,2-Dibromoethane	U			0.193	0.500	1	04/26/2019 19:47	WG1272563
Dibromomethane	U			0.117	0.500	1	04/26/2019 19:47	WG1272563
1,2-Dichlorobenzene	U			0.101	0.500	1	04/26/2019 19:47	WG1272563
1,3-Dichlorobenzene	U			0.130	0.500	1	04/26/2019 19:47	WG1272563
1,4-Dichlorobenzene	U			0.121	0.500	1	04/26/2019 19:47	WG1272563
Dichlorodifluoromethane	U			0.127	2.50	1	04/26/2019 19:47	WG1272563
1,1-Dichloroethane	U			0.114	0.500	1	04/26/2019 19:47	WG1272563
1,2-Dichloroethane	U			0.108	0.500	1	04/26/2019 19:47	WG1272563
1,1-Dichloroethene	11.7			0.188	0.500	1	04/26/2019 19:47	WG1272563
cis-1,2-Dichloroethene	3550			4.66	25.0	50	05/02/2019 11:20	WG1274830
trans-1,2-Dichloroethene	15.9			0.152	0.500	1	04/26/2019 19:47	WG1272563
1,2-Dichloropropane	U			0.190	0.500	1	04/26/2019 19:47	WG1272563
1,1-Dichloropropene	U			0.128	0.500	1	04/26/2019 19:47	WG1272563
1,3-Dichloropropane	U			0.147	1.00	1	04/26/2019 19:47	WG1272563
cis-1,3-Dichloropropene	U			0.0976	0.500	1	04/26/2019 19:47	WG1272563
trans-1,3-Dichloropropene	U			0.222	0.500	1	04/26/2019 19:47	WG1272563
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	04/26/2019 19:47	WG1272563
2,2-Dichloropropane	U			0.0929	0.500	1	04/26/2019 19:47	WG1272563
Di-isopropyl ether	U			0.0924	0.500	1	04/26/2019 19:47	WG1272563
Ethylbenzene	U			0.158	0.500	1	04/26/2019 19:47	WG1272563
Hexachloro-1,3-butadiene	U			0.157	1.00	1	04/26/2019 19:47	WG1272563
2-Hexanone	U		~~J3~~	0.757	5.00	1	04/26/2019 19:47	WG1272563
n-Hexane	U			0.305	5.00	1	04/26/2019 19:47	WG1272563
Iodomethane	U			0.377	10.0	1	04/26/2019 19:47	WG1272563
Isopropylbenzene	U			0.126	0.500	1	04/26/2019 19:47	WG1272563
p-Isopropyltoluene	U			0.138	0.500	1	04/26/2019 19:47	WG1272563
2-Butanone (MEK)	U			1.28	5.00	1	04/26/2019 19:47	WG1272563
Methylene Chloride	U			1.07	2.50	1	04/26/2019 19:47	WG1272563
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	04/26/2019 19:47	WG1272563
Methyl tert-butyl ether	U			0.102	0.500	1	04/26/2019 19:47	WG1272563
Naphthalene	U			0.174	2.50	1	04/26/2019 19:47	WG1272563
n-Propylbenzene	U			0.162	0.500	1	04/26/2019 19:47	WG1272563
Styrene	U			0.117	0.500	1	04/26/2019 19:47	WG1272563
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	04/26/2019 19:47	WG1272563
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	04/26/2019 19:47	WG1272563
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	04/26/2019 19:47	WG1272563
Tetrachloroethene	U			9.95	25.0	50	05/02/2019 11:20	WG1274830
Toluene	U			0.412	0.500	1	04/26/2019 19:47	WG1272563
1,2,3-Trichlorobenzene	U			0.164	0.500	1	04/26/2019 19:47	WG1272563
1,2,4-Trichlorobenzene	U			0.355	0.500	1	04/26/2019 19:47	WG1272563
1,1,1-Trichloroethane	U			0.0940	0.500	1	04/26/2019 19:47	WG1272563
1,1,2-Trichloroethane	U			0.186	0.500	1	04/26/2019 19:47	WG1272563
Trichloroethene	8.52	J	J	7.65	25.0	50	05/02/2019 11:20	WG1274830
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	04/26/2019 19:47	WG1272563
1,2,3-Trichloropropane	U			0.247	2.50	1	04/26/2019 19:47	WG1272563
1,2,4-Trimethylbenzene	U			0.123	0.500	1	04/26/2019 19:47	WG1272563
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	04/26/2019 19:47	WG1272563
1,3,5-Trimethylbenzene	U			0.124	0.500	1	04/26/2019 19:47	WG1272563

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	04/26/2019 19:47	WG1272563
Vinyl chloride	622		5.90	25.0	50	05/02/2019 11:20	WG1274830
Xylenes, Total	U		0.316	1.50	1	04/26/2019 19:47	WG1272563
(S) Toluene-d8	*101*			*80.0-120*		*04/26/2019 19:47*	WG1272563
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2019 11:20*	WG1274830
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/26/2019 19:47*	WG1272563
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*05/02/2019 11:20*	WG1274830
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*04/26/2019 19:47*	WG1272563
(S) 1,2-Dichloroethane-d4	*91.4*			*70.0-130*		*05/02/2019 11:20*	WG1274830

Sample Narrative:

L1092440-06 WG1272563, WG1274830: Not all compounds reportable at lower dilution.

L1092440-06 WG1272563, WG1274830: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/02/2019 15:18	WG1275218
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*78.0-120*		*05/02/2019 15:18*	WG1275218

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.58	J J0	1.05	25.0	1	04/26/2019 17:27	WG1272563
Acrylonitrile	U		0.873	5.00	1	04/26/2019 17:27	WG1272563
Benzene	U		0.0896	0.500	1	04/26/2019 17:27	WG1272563
Bromobenzene	U		0.133	0.500	1	04/26/2019 17:27	WG1272563
Bromodichloromethane	U		0.0800	0.500	1	04/26/2019 17:27	WG1272563
Bromochloromethane	U		0.145	0.500	1	04/26/2019 17:27	WG1272563
Bromoform	U		0.186	0.500	1	04/26/2019 17:27	WG1272563
Bromomethane	U	UJ J0	0.157	2.50	1	04/26/2019 17:27	WG1272563
n-Butylbenzene	U		0.143	0.500	1	04/26/2019 17:27	WG1272563
sec-Butylbenzene	U		0.134	0.500	1	04/26/2019 17:27	WG1272563
tert-Butylbenzene	U		0.183	0.500	1	04/26/2019 17:27	WG1272563
Carbon disulfide	U		0.101	0.500	1	04/26/2019 17:27	WG1272563
Carbon tetrachloride	U		0.159	0.500	1	04/26/2019 17:27	WG1272563
Chlorobenzene	U		0.140	0.500	1	04/26/2019 17:27	WG1272563
Chlorodibromomethane	U		0.128	0.500	1	04/26/2019 17:27	WG1272563
Chloroethane	U	UJ J0	0.141	2.50	1	04/26/2019 17:27	WG1272563
Chloroform	U		0.0860	0.500	1	04/26/2019 17:27	WG1272563
Chloromethane	U		0.153	1.25	1	04/26/2019 17:27	WG1272563
2-Chlorotoluene	U		0.111	0.500	1	04/26/2019 17:27	WG1272563
4-Chlorotoluene	U		0.0972	0.500	1	04/26/2019 17:27	WG1272563
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/26/2019 17:27	WG1272563
1,2-Dibromoethane	U		0.193	0.500	1	04/26/2019 17:27	WG1272563
Dibromomethane	U		0.117	0.500	1	04/26/2019 17:27	WG1272563
1,2-Dichlorobenzene	U		0.101	0.500	1	04/26/2019 17:27	WG1272563
1,3-Dichlorobenzene	U		0.130	0.500	1	04/26/2019 17:27	WG1272563
1,4-Dichlorobenzene	U		0.121	0.500	1	04/26/2019 17:27	WG1272563
Dichlorodifluoromethane	U		0.127	2.50	1	04/26/2019 17:27	WG1272563
1,1-Dichloroethane	U		0.114	0.500	1	04/26/2019 17:27	WG1272563
1,2-Dichloroethane	U		0.108	0.500	1	04/26/2019 17:27	WG1272563
1,1-Dichloroethene	U		0.188	0.500	1	04/26/2019 17:27	WG1272563
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/26/2019 17:27	WG1272563
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/26/2019 17:27	WG1272563
1,2-Dichloropropane	U		0.190	0.500	1	04/26/2019 17:27	WG1272563
1,1-Dichloropropene	U		0.128	0.500	1	04/26/2019 17:27	WG1272563
1,3-Dichloropropane	U		0.147	1.00	1	04/26/2019 17:27	WG1272563
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/26/2019 17:27	WG1272563
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/26/2019 17:27	WG1272563
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/26/2019 17:27	WG1272563
2,2-Dichloropropane	U		0.0929	0.500	1	04/26/2019 17:27	WG1272563
Di-isopropyl ether	U		0.0924	0.500	1	04/26/2019 17:27	WG1272563
Ethylbenzene	U		0.158	0.500	1	04/26/2019 17:27	WG1272563
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/26/2019 17:27	WG1272563
2-Hexanone	U	~~J3~~	0.757	5.00	1	04/26/2019 17:27	WG1272563
n-Hexane	U		0.305	5.00	1	04/26/2019 17:27	WG1272563
Iodomethane	U		0.377	10.0	1	04/26/2019 17:27	WG1272563
Isopropylbenzene	U		0.126	0.500	1	04/26/2019 17:27	WG1272563
p-Isopropyltoluene	U		0.138	0.500	1	04/26/2019 17:27	WG1272563
2-Butanone (MEK)	U		1.28	5.00	1	04/26/2019 17:27	WG1272563

JC 5/13/19

TRIP BLANK-042419

Collected date/time: 04/24/19 00:00

SAMPLE RESULTS - 07

L1092440

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	04/26/2019 17:27	WG1272563
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/26/2019 17:27	WG1272563
Methyl tert-butyl ether	U		0.102	0.500	1	04/26/2019 17:27	WG1272563
Naphthalene	U		0.174	2.50	1	04/26/2019 17:27	WG1272563
n-Propylbenzene	U		0.162	0.500	1	04/26/2019 17:27	WG1272563
Styrene	U		0.117	0.500	1	04/26/2019 17:27	WG1272563
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/26/2019 17:27	WG1272563
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/26/2019 17:27	WG1272563
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/26/2019 17:27	WG1272563
Tetrachloroethene	U		0.199	0.500	1	04/26/2019 17:27	WG1272563
Toluene	U		0.412	0.500	1	04/26/2019 17:27	WG1272563
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/26/2019 17:27	WG1272563
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/26/2019 17:27	WG1272563
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/26/2019 17:27	WG1272563
1,1,2-Trichloroethane	U		0.186	0.500	1	04/26/2019 17:27	WG1272563
Trichloroethene	U		0.153	0.500	1	04/26/2019 17:27	WG1272563
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/26/2019 17:27	WG1272563
1,2,3-Trichloropropane	U		0.247	2.50	1	04/26/2019 17:27	WG1272563
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/26/2019 17:27	WG1272563
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/26/2019 17:27	WG1272563
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/26/2019 17:27	WG1272563
Vinyl acetate	U		0.645	5.00	1	04/26/2019 17:27	WG1272563
Vinyl chloride	U UJ	J0	0.118	0.500	1	04/26/2019 17:27	WG1272563
Xylenes, Total	U		0.316	1.50	1	04/26/2019 17:27	WG1272563
(S) Toluene-d8	*97.1*			*80.0-120*		*04/26/2019 17:27*	WG1272563
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/26/2019 17:27*	WG1272563
(S) 1,2-Dichloroethane-d4	*90.1*			*70.0-130*		*04/26/2019 17:27*	WG1272563

JC 5/13/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	345000		2710	20000	1	05/03/2019 21:09	WG1274856

Sample Narrative:

L1092880-01 WG1274856: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	26700		51.9	1000	1	04/26/2019 22:31	WG1272235
Nitrate	U		22.7	100	1	04/26/2019 22:31	WG1272235
Sulfate	21100		77.4	5000	1	04/26/2019 22:31	WG1272235

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8110		204	2000	2	04/29/2019 17:13	WG1273394

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	12400 J	O1 V	15.0	100	1	05/07/2019 20:31	WG1271844
Manganese	393 J	O1	0.250	5.00	1	05/07/2019 20:31	WG1271844

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/01/2019 14:16	WG1274492
(S) a,a,a-Trifluorotoluene(FID)	*93.7*			*78.0-120*		*05/01/2019 14:16*	WG1274492

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	177		0.287	0.678	1	05/03/2019 13:37	WG1275530
Ethane	U		0.296	1.29	1	05/03/2019 13:37	WG1275530
Ethene	4.74		0.422	1.27	1	05/03/2019 13:37	WG1275530

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.23 U	J J0	1.05	25.0	1	04/26/2019 23:06	WG1272563
Acrylonitrile	U		0.873	5.00	1	04/26/2019 23:06	WG1272563
Benzene	U		0.0896	0.500	1	04/26/2019 23:06	WG1272563
Bromobenzene	U		0.133	0.500	1	04/26/2019 23:06	WG1272563
Bromodichloromethane	U		0.0800	0.500	1	04/26/2019 23:06	WG1272563
Bromochloromethane	U		0.145	0.500	1	04/26/2019 23:06	WG1272563
Bromoform	U		0.186	0.500	1	04/26/2019 23:06	WG1272563
Bromomethane	U UJ	J0	0.157	2.50	1	04/26/2019 23:06	WG1272563
n-Butylbenzene	U		0.143	0.500	1	04/26/2019 23:06	WG1272563
sec-Butylbenzene	U		0.134	0.500	1	04/26/2019 23:06	WG1272563
tert-Butylbenzene	U		0.183	0.500	1	04/26/2019 23:06	WG1272563
Carbon disulfide	0.351 J	J J0	0.101	0.500	1	04/26/2019 23:06	WG1272563
Carbon tetrachloride	U		0.159	0.500	1	04/26/2019 23:06	WG1272563

JC 5/13/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	04/26/2019 23:06	WG1272563	
Chlorodibromomethane	U		0.128	0.500	1	04/26/2019 23:06	WG1272563	
Chloroethane	U UJ	J0	0.141	2.50	1	04/26/2019 23:06	WG1272563	
Chloroform	U		0.0860	0.500	1	04/26/2019 23:06	WG1272563	
Chloromethane	U		0.153	1.25	1	04/26/2019 23:06	WG1272563	
2-Chlorotoluene	U		0.111	0.500	1	04/26/2019 23:06	WG1272563	
4-Chlorotoluene	U		0.0972	0.500	1	04/26/2019 23:06	WG1272563	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/26/2019 23:06	WG1272563	
1,2-Dibromoethane	U		0.193	0.500	1	04/26/2019 23:06	WG1272563	
Dibromomethane	U		0.117	0.500	1	04/26/2019 23:06	WG1272563	
1,2-Dichlorobenzene	U		0.101	0.500	1	04/26/2019 23:06	WG1272563	
1,3-Dichlorobenzene	U		0.130	0.500	1	04/26/2019 23:06	WG1272563	
1,4-Dichlorobenzene	U		0.121	0.500	1	04/26/2019 23:06	WG1272563	
Dichlorodifluoromethane	U		0.127	2.50	1	04/26/2019 23:06	WG1272563	
1,1-Dichloroethane	U		0.114	0.500	1	04/26/2019 23:06	WG1272563	
1,2-Dichloroethane	U		0.108	0.500	1	04/26/2019 23:06	WG1272563	
1,1-Dichloroethene	U		0.188	0.500	1	04/26/2019 23:06	WG1272563	
cis-1,2-Dichloroethene	0.974		0.0933	0.500	1	04/26/2019 23:06	WG1272563	
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/26/2019 23:06	WG1272563	
1,2-Dichloropropane	U		0.190	0.500	1	04/26/2019 23:06	WG1272563	
1,1-Dichloropropene	U		0.128	0.500	1	04/26/2019 23:06	WG1272563	
1,3-Dichloropropane	U		0.147	1.00	1	04/26/2019 23:06	WG1272563	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/26/2019 23:06	WG1272563	
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/26/2019 23:06	WG1272563	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/26/2019 23:06	WG1272563	
2,2-Dichloropropane	U		0.0929	0.500	1	04/26/2019 23:06	WG1272563	
Di-isopropyl ether	U		0.0924	0.500	1	04/26/2019 23:06	WG1272563	
Ethylbenzene	U		0.158	0.500	1	04/26/2019 23:06	WG1272563	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/26/2019 23:06	WG1272563	
2-Hexanone	U	~~J3~~	0.757	5.00	1	04/26/2019 23:06	WG1272563	
n-Hexane	U		0.305	5.00	1	04/26/2019 23:06	WG1272563	
Iodomethane	U		0.377	10.0	1	04/26/2019 23:06	WG1272563	
Isopropylbenzene	U		0.126	0.500	1	04/26/2019 23:06	WG1272563	
p-Isopropyltoluene	U		0.138	0.500	1	04/26/2019 23:06	WG1272563	
2-Butanone (MEK)	U		1.28	5.00	1	04/26/2019 23:06	WG1272563	
Methylene Chloride	U		1.07	2.50	1	04/26/2019 23:06	WG1272563	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/26/2019 23:06	WG1272563	
Methyl tert-butyl ether	U		0.102	0.500	1	04/26/2019 23:06	WG1272563	
Naphthalene	U		0.174	2.50	1	04/26/2019 23:06	WG1272563	
n-Propylbenzene	U		0.162	0.500	1	04/26/2019 23:06	WG1272563	
Styrene	U		0.117	0.500	1	04/26/2019 23:06	WG1272563	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/26/2019 23:06	WG1272563	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/26/2019 23:06	WG1272563	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/26/2019 23:06	WG1272563	
Tetrachloroethene	U		0.199	0.500	1	04/26/2019 23:06	WG1272563	
Toluene	U		0.412	0.500	1	04/26/2019 23:06	WG1272563	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/26/2019 23:06	WG1272563	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/26/2019 23:06	WG1272563	
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/26/2019 23:06	WG1272563	
1,1,2-Trichloroethane	U		0.186	0.500	1	04/26/2019 23:06	WG1272563	
Trichloroethene	0.240 J	J	0.153	0.500	1	04/26/2019 23:06	WG1272563	
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/26/2019 23:06	WG1272563	
1,2,3-Trichloropropane	U		0.247	2.50	1	04/26/2019 23:06	WG1272563	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/26/2019 23:06	WG1272563	JC 5/13/19
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/26/2019 23:06	WG1272563	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/26/2019 23:06	WG1272563	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U			0.645	5.00	1	04/26/2019 23:06	WG1272563
Vinyl chloride	3.08	J	J0	0.118	0.500	1	04/26/2019 23:06	WG1272563
Xylenes, Total	U			0.316	1.50	1	04/26/2019 23:06	WG1272563
(S) Toluene-d8	*100*				*80.0-120*		*04/26/2019 23:06*	WG1272563
(S) 4-Bromofluorobenzene	*104*				*77.0-126*		*04/26/2019 23:06*	WG1272563
(S) 1,2-Dichloroethane-d4	*93.0*				*70.0-130*		*04/26/2019 23:06*	WG1272563

JC 5/13/19

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	246000		2710	20000	1	05/03/2019 21:16	WG1274856

Sample Narrative:

L1092880-02 WG1274856: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	33700		51.9	1000	1	04/26/2019 23:00	WG1272235
Nitrate	397		22.7	100	1	04/26/2019 23:00	WG1272235
Sulfate	80000		77.4	5000	1	04/26/2019 23:00	WG1272235

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5410		102	1000	1	04/29/2019 17:25	WG1273394

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2020		15.0	100	1	05/07/2019 23:03	WG1271844
Manganese	330		0.250	5.00	1	05/07/2019 23:03	WG1271844

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/01/2019 14:37	WG1274492
(S) a,a,a-Trifluorotoluene(FID)	*94.1*			*78.0-120*		*05/01/2019 14:37*	WG1274492

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	10.2		0.287	0.678	1	05/03/2019 13:39	WG1275530
Ethane	U		0.296	1.29	1	05/03/2019 13:39	WG1275530
Ethene	U		0.422	1.27	1	05/03/2019 13:39	WG1275530

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.03 U	J J0	1.05	25.0	1	04/26/2019 23:26	WG1272563
Acrylonitrile	U		0.873	5.00	1	04/26/2019 23:26	WG1272563
Benzene	U		0.0896	0.500	1	04/26/2019 23:26	WG1272563
Bromobenzene	U		0.133	0.500	1	04/26/2019 23:26	WG1272563
Bromodichloromethane	U		0.0800	0.500	1	04/26/2019 23:26	WG1272563
Bromochloromethane	U		0.145	0.500	1	04/26/2019 23:26	WG1272563
Bromoform	U		0.186	0.500	1	04/26/2019 23:26	WG1272563
Bromomethane	U UJ	J0	0.157	2.50	1	04/26/2019 23:26	WG1272563
n-Butylbenzene	U		0.143	0.500	1	04/26/2019 23:26	WG1272563
sec-Butylbenzene	U		0.134	0.500	1	04/26/2019 23:26	WG1272563
tert-Butylbenzene	U		0.183	0.500	1	04/26/2019 23:26	WG1272563
Carbon disulfide	U		0.101	0.500	1	04/26/2019 23:26	WG1272563
Carbon tetrachloride	U		0.159	0.500	1	04/26/2019 23:26	WG1272563

JC 5/13/19

W-MW-01-042519

Collected date/time: 04/25/19 12:15

SAMPLE RESULTS - 02

L1092880

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/26/2019 23:26	WG1272563
Chlorodibromomethane	U		0.128	0.500	1	04/26/2019 23:26	WG1272563
Chloroethane	U UJ	J0	0.141	2.50	1	04/26/2019 23:26	WG1272563
Chloroform	U		0.0860	0.500	1	04/26/2019 23:26	WG1272563
Chloromethane	U		0.153	1.25	1	04/26/2019 23:26	WG1272563
2-Chlorotoluene	U		0.111	0.500	1	04/26/2019 23:26	WG1272563
4-Chlorotoluene	U		0.0972	0.500	1	04/26/2019 23:26	WG1272563
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/26/2019 23:26	WG1272563
1,2-Dibromoethane	U		0.193	0.500	1	04/26/2019 23:26	WG1272563
Dibromomethane	U		0.117	0.500	1	04/26/2019 23:26	WG1272563
1,2-Dichlorobenzene	U		0.101	0.500	1	04/26/2019 23:26	WG1272563
1,3-Dichlorobenzene	U		0.130	0.500	1	04/26/2019 23:26	WG1272563
1,4-Dichlorobenzene	U		0.121	0.500	1	04/26/2019 23:26	WG1272563
Dichlorodifluoromethane	U		0.127	2.50	1	04/26/2019 23:26	WG1272563
1,1-Dichloroethane	U		0.114	0.500	1	04/26/2019 23:26	WG1272563
1,2-Dichloroethane	U		0.108	0.500	1	04/26/2019 23:26	WG1272563
1,1-Dichloroethene	U		0.188	0.500	1	04/26/2019 23:26	WG1272563
cis-1,2-Dichloroethene	0.572		0.0933	0.500	1	04/26/2019 23:26	WG1272563
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/26/2019 23:26	WG1272563
1,2-Dichloropropane	U		0.190	0.500	1	04/26/2019 23:26	WG1272563
1,1-Dichloropropene	U		0.128	0.500	1	04/26/2019 23:26	WG1272563
1,3-Dichloropropane	U		0.147	1.00	1	04/26/2019 23:26	WG1272563
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/26/2019 23:26	WG1272563
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/26/2019 23:26	WG1272563
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/26/2019 23:26	WG1272563
2,2-Dichloropropane	U		0.0929	0.500	1	04/26/2019 23:26	WG1272563
Di-isopropyl ether	U		0.0924	0.500	1	04/26/2019 23:26	WG1272563
Ethylbenzene	U		0.158	0.500	1	04/26/2019 23:26	WG1272563
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/26/2019 23:26	WG1272563
2-Hexanone	U	~~J3~~	0.757	5.00	1	04/26/2019 23:26	WG1272563
n-Hexane	U		0.305	5.00	1	04/26/2019 23:26	WG1272563
Iodomethane	U		0.377	10.0	1	04/26/2019 23:26	WG1272563
Isopropylbenzene	U		0.126	0.500	1	04/26/2019 23:26	WG1272563
p-Isopropyltoluene	U		0.138	0.500	1	04/26/2019 23:26	WG1272563
2-Butanone (MEK)	U		1.28	5.00	1	04/26/2019 23:26	WG1272563
Methylene Chloride	U		1.07	2.50	1	04/26/2019 23:26	WG1272563
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/26/2019 23:26	WG1272563
Methyl tert-butyl ether	U		0.102	0.500	1	04/26/2019 23:26	WG1272563
Naphthalene	0.211 J	J	0.174	2.50	1	04/26/2019 23:26	WG1272563
n-Propylbenzene	U		0.162	0.500	1	04/26/2019 23:26	WG1272563
Styrene	U		0.117	0.500	1	04/26/2019 23:26	WG1272563
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/26/2019 23:26	WG1272563
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/26/2019 23:26	WG1272563
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/26/2019 23:26	WG1272563
Tetrachloroethene	U		0.199	0.500	1	04/26/2019 23:26	WG1272563
Toluene	U		0.412	0.500	1	04/26/2019 23:26	WG1272563
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/26/2019 23:26	WG1272563
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/26/2019 23:26	WG1272563
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/26/2019 23:26	WG1272563
1,1,2-Trichloroethane	U		0.186	0.500	1	04/26/2019 23:26	WG1272563
Trichloroethene	0.373 J	J	0.153	0.500	1	04/26/2019 23:26	WG1272563
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/26/2019 23:26	WG1272563
1,2,3-Trichloropropane	U		0.247	2.50	1	04/26/2019 23:26	WG1272563
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/26/2019 23:26	WG1272563
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/26/2019 23:26	WG1272563
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/26/2019 23:26	WG1272563

JC 5/13/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	04/26/2019 23:26	WG1272563
Vinyl chloride	6.61 J	J0	0.118	0.500	1	04/26/2019 23:26	WG1272563
Xylenes, Total	U		0.316	1.50	1	04/26/2019 23:26	WG1272563
(S) Toluene-d8	*98.9*			*80.0-120*		*04/26/2019 23:26*	WG1272563
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/26/2019 23:26*	WG1272563
(S) 1,2-Dichloroethane-d4	*93.8*			*70.0-130*		*04/26/2019 23:26*	WG1272563

JC 5/13/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/01/2019 14:57	WG1274492
(S) a,a,a-Trifluorotoluene(FID)	*93.6*			*78.0-120*		*05/01/2019 14:57*	WG1274492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	2.91	U	J J0	1.05	25.0	1	04/26/2019 23:46	WG1272563	
Acrylonitrile	U			0.873	5.00	1	04/26/2019 23:46	WG1272563	
Benzene	U			0.0896	0.500	1	04/26/2019 23:46	WG1272563	
Bromobenzene	U			0.133	0.500	1	04/26/2019 23:46	WG1272563	
Bromodichloromethane	U			0.0800	0.500	1	04/26/2019 23:46	WG1272563	
Bromochloromethane	U			0.145	0.500	1	04/26/2019 23:46	WG1272563	
Bromoform	U			0.186	0.500	1	04/26/2019 23:46	WG1272563	
Bromomethane	U	UJ	J0	0.157	2.50	1	04/26/2019 23:46	WG1272563	
n-Butylbenzene	U			0.143	0.500	1	04/26/2019 23:46	WG1272563	
sec-Butylbenzene	U			0.134	0.500	1	04/26/2019 23:46	WG1272563	
tert-Butylbenzene	U			0.183	0.500	1	04/26/2019 23:46	WG1272563	
Carbon disulfide	U			0.101	0.500	1	04/26/2019 23:46	WG1272563	
Carbon tetrachloride	U			0.159	0.500	1	04/26/2019 23:46	WG1272563	
Chlorobenzene	U			0.140	0.500	1	04/26/2019 23:46	WG1272563	
Chlorodibromomethane	U			0.128	0.500	1	04/26/2019 23:46	WG1272563	
Chloroethane	U	UJ	J0	0.141	2.50	1	04/26/2019 23:46	WG1272563	
Chloroform	U			0.0860	0.500	1	04/26/2019 23:46	WG1272563	
Chloromethane	U			0.153	1.25	1	04/26/2019 23:46	WG1272563	
2-Chlorotoluene	U			0.111	0.500	1	04/26/2019 23:46	WG1272563	
4-Chlorotoluene	U			0.0972	0.500	1	04/26/2019 23:46	WG1272563	
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	04/26/2019 23:46	WG1272563	
1,2-Dibromoethane	U			0.193	0.500	1	04/26/2019 23:46	WG1272563	
Dibromomethane	U			0.117	0.500	1	04/26/2019 23:46	WG1272563	
1,2-Dichlorobenzene	U			0.101	0.500	1	04/26/2019 23:46	WG1272563	
1,3-Dichlorobenzene	U			0.130	0.500	1	04/26/2019 23:46	WG1272563	
1,4-Dichlorobenzene	U			0.121	0.500	1	04/26/2019 23:46	WG1272563	
Dichlorodifluoromethane	U			0.127	2.50	1	04/26/2019 23:46	WG1272563	
1,1-Dichloroethane	U			0.114	0.500	1	04/26/2019 23:46	WG1272563	
1,2-Dichloroethane	U			0.108	0.500	1	04/26/2019 23:46	WG1272563	
1,1-Dichloroethene	U			0.188	0.500	1	04/26/2019 23:46	WG1272563	
cis-1,2-Dichloroethene	11.8			0.0933	0.500	1	04/26/2019 23:46	WG1272563	
trans-1,2-Dichloroethene	0.168	J	J	0.152	0.500	1	04/26/2019 23:46	WG1272563	
1,2-Dichloropropane	U			0.190	0.500	1	04/26/2019 23:46	WG1272563	
1,1-Dichloropropene	U			0.128	0.500	1	04/26/2019 23:46	WG1272563	
1,3-Dichloropropane	U			0.147	1.00	1	04/26/2019 23:46	WG1272563	
cis-1,3-Dichloropropene	U			0.0976	0.500	1	04/26/2019 23:46	WG1272563	
trans-1,3-Dichloropropene	U			0.222	0.500	1	04/26/2019 23:46	WG1272563	
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	04/26/2019 23:46	WG1272563	
2,2-Dichloropropane	U			0.0929	0.500	1	04/26/2019 23:46	WG1272563	
Di-isopropyl ether	U			0.0924	0.500	1	04/26/2019 23:46	WG1272563	
Ethylbenzene	U			0.158	0.500	1	04/26/2019 23:46	WG1272563	JC 5/13/19
Hexachloro-1,3-butadiene	U			0.157	1.00	1	04/26/2019 23:46	WG1272563	
2-Hexanone	U		~~J3~~	0.757	5.00	1	04/26/2019 23:46	WG1272563	
n-Hexane	U			0.305	5.00	1	04/26/2019 23:46	WG1272563	
Iodomethane	U			0.377	10.0	1	04/26/2019 23:46	WG1272563	
Isopropylbenzene	U			0.126	0.500	1	04/26/2019 23:46	WG1272563	
p-Isopropyltoluene	U			0.138	0.500	1	04/26/2019 23:46	WG1272563	
2-Butanone (MEK)	U			1.28	5.00	1	04/26/2019 23:46	WG1272563	

R-MW6-042519

Collected date/time: 04/25/19 13:20

SAMPLE RESULTS - 03

L1092880

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	04/26/2019 23:46	WG1272563
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	04/26/2019 23:46	WG1272563
Methyl tert-butyl ether	U			0.102	0.500	1	04/26/2019 23:46	WG1272563
Naphthalene	U			0.174	2.50	1	04/26/2019 23:46	WG1272563
n-Propylbenzene	U			0.162	0.500	1	04/26/2019 23:46	WG1272563
Styrene	U			0.117	0.500	1	04/26/2019 23:46	WG1272563
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	04/26/2019 23:46	WG1272563
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	04/26/2019 23:46	WG1272563
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	04/26/2019 23:46	WG1272563
Tetrachloroethene	U			0.199	0.500	1	04/26/2019 23:46	WG1272563
Toluene	U			0.412	0.500	1	04/26/2019 23:46	WG1272563
1,2,3-Trichlorobenzene	U			0.164	0.500	1	04/26/2019 23:46	WG1272563
1,2,4-Trichlorobenzene	U			0.355	0.500	1	04/26/2019 23:46	WG1272563
1,1,1-Trichloroethane	U			0.0940	0.500	1	04/26/2019 23:46	WG1272563
1,1,2-Trichloroethane	U			0.186	0.500	1	04/26/2019 23:46	WG1272563
Trichloroethene	0.370	J	J	0.153	0.500	1	04/26/2019 23:46	WG1272563
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	04/26/2019 23:46	WG1272563
1,2,3-Trichloropropane	U			0.247	2.50	1	04/26/2019 23:46	WG1272563
1,2,4-Trimethylbenzene	U			0.123	0.500	1	04/26/2019 23:46	WG1272563
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	04/26/2019 23:46	WG1272563
1,3,5-Trimethylbenzene	U			0.124	0.500	1	04/26/2019 23:46	WG1272563
Vinyl acetate	U			0.645	5.00	1	04/26/2019 23:46	WG1272563
Vinyl chloride	7.16	J	J0	0.118	0.500	1	04/26/2019 23:46	WG1272563
Xylenes, Total	U			0.316	1.50	1	04/26/2019 23:46	WG1272563
(S) Toluene-d8	*95.8*				*80.0-120*		*04/26/2019 23:46*	WG1272563
(S) 4-Bromofluorobenzene	*98.9*				*77.0-126*		*04/26/2019 23:46*	WG1272563
(S) 1,2-Dichloroethane-d4	*93.2*				*70.0-130*		*04/26/2019 23:46*	WG1272563

JC 5/13/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/01/2019 13:14	WG1274492
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*78.0-120*		*05/01/2019 13:14*	WG1274492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.62	J J0	1.05	25.0	1	04/26/2019 17:47	WG1272563
Acrylonitrile	U		0.873	5.00	1	04/26/2019 17:47	WG1272563
Benzene	U		0.0896	0.500	1	04/26/2019 17:47	WG1272563
Bromobenzene	U		0.133	0.500	1	04/26/2019 17:47	WG1272563
Bromodichloromethane	U		0.0800	0.500	1	04/26/2019 17:47	WG1272563
Bromochloromethane	U		0.145	0.500	1	04/26/2019 17:47	WG1272563
Bromoform	U		0.186	0.500	1	04/26/2019 17:47	WG1272563
Bromomethane	U	UJ J0	0.157	2.50	1	04/26/2019 17:47	WG1272563
n-Butylbenzene	U		0.143	0.500	1	04/26/2019 17:47	WG1272563
sec-Butylbenzene	U		0.134	0.500	1	04/26/2019 17:47	WG1272563
tert-Butylbenzene	U		0.183	0.500	1	04/26/2019 17:47	WG1272563
Carbon disulfide	U		0.101	0.500	1	04/26/2019 17:47	WG1272563
Carbon tetrachloride	U		0.159	0.500	1	04/26/2019 17:47	WG1272563
Chlorobenzene	U		0.140	0.500	1	04/26/2019 17:47	WG1272563
Chlorodibromomethane	U		0.128	0.500	1	04/26/2019 17:47	WG1272563
Chloroethane	U	UJ J0	0.141	2.50	1	04/26/2019 17:47	WG1272563
Chloroform	U		0.0860	0.500	1	04/26/2019 17:47	WG1272563
Chloromethane	U		0.153	1.25	1	04/26/2019 17:47	WG1272563
2-Chlorotoluene	U		0.111	0.500	1	04/26/2019 17:47	WG1272563
4-Chlorotoluene	U		0.0972	0.500	1	04/26/2019 17:47	WG1272563
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/26/2019 17:47	WG1272563
1,2-Dibromoethane	U		0.193	0.500	1	04/26/2019 17:47	WG1272563
Dibromomethane	U		0.117	0.500	1	04/26/2019 17:47	WG1272563
1,2-Dichlorobenzene	U		0.101	0.500	1	04/26/2019 17:47	WG1272563
1,3-Dichlorobenzene	U		0.130	0.500	1	04/26/2019 17:47	WG1272563
1,4-Dichlorobenzene	U		0.121	0.500	1	04/26/2019 17:47	WG1272563
Dichlorodifluoromethane	U		0.127	2.50	1	04/26/2019 17:47	WG1272563
1,1-Dichloroethane	U		0.114	0.500	1	04/26/2019 17:47	WG1272563
1,2-Dichloroethane	U		0.108	0.500	1	04/26/2019 17:47	WG1272563
1,1-Dichloroethene	U		0.188	0.500	1	04/26/2019 17:47	WG1272563
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/26/2019 17:47	WG1272563
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/26/2019 17:47	WG1272563
1,2-Dichloropropane	U		0.190	0.500	1	04/26/2019 17:47	WG1272563
1,1-Dichloropropene	U		0.128	0.500	1	04/26/2019 17:47	WG1272563
1,3-Dichloropropane	U		0.147	1.00	1	04/26/2019 17:47	WG1272563
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/26/2019 17:47	WG1272563
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/26/2019 17:47	WG1272563
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/26/2019 17:47	WG1272563
2,2-Dichloropropane	U		0.0929	0.500	1	04/26/2019 17:47	WG1272563
Di-isopropyl ether	U		0.0924	0.500	1	04/26/2019 17:47	WG1272563
Ethylbenzene	U		0.158	0.500	1	04/26/2019 17:47	WG1272563
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/26/2019 17:47	WG1272563
2-Hexanone	U	~~J3~~	0.757	5.00	1	04/26/2019 17:47	WG1272563
n-Hexane	U		0.305	5.00	1	04/26/2019 17:47	WG1272563
Iodomethane	U		0.377	10.0	1	04/26/2019 17:47	WG1272563
Isopropylbenzene	U		0.126	0.500	1	04/26/2019 17:47	WG1272563
p-Isopropyltoluene	U		0.138	0.500	1	04/26/2019 17:47	WG1272563
2-Butanone (MEK)	U		1.28	5.00	1	04/26/2019 17:47	WG1272563

JC 5/13/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	04/26/2019 17:47	WG1272563
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/26/2019 17:47	WG1272563
Methyl tert-butyl ether	U		0.102	0.500	1	04/26/2019 17:47	WG1272563
Naphthalene	U		0.174	2.50	1	04/26/2019 17:47	WG1272563
n-Propylbenzene	U		0.162	0.500	1	04/26/2019 17:47	WG1272563
Styrene	U		0.117	0.500	1	04/26/2019 17:47	WG1272563
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/26/2019 17:47	WG1272563
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/26/2019 17:47	WG1272563
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/26/2019 17:47	WG1272563
Tetrachloroethene	U		0.199	0.500	1	04/26/2019 17:47	WG1272563
Toluene	U		0.412	0.500	1	04/26/2019 17:47	WG1272563
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/26/2019 17:47	WG1272563
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/26/2019 17:47	WG1272563
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/26/2019 17:47	WG1272563
1,1,2-Trichloroethane	U		0.186	0.500	1	04/26/2019 17:47	WG1272563
Trichloroethene	U		0.153	0.500	1	04/26/2019 17:47	WG1272563
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/26/2019 17:47	WG1272563
1,2,3-Trichloropropane	U		0.247	2.50	1	04/26/2019 17:47	WG1272563
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/26/2019 17:47	WG1272563
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/26/2019 17:47	WG1272563
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/26/2019 17:47	WG1272563
Vinyl acetate	U		0.645	5.00	1	04/26/2019 17:47	WG1272563
Vinyl chloride	U UJ	J0	0.118	0.500	1	04/26/2019 17:47	WG1272563
Xylenes, Total	U		0.316	1.50	1	04/26/2019 17:47	WG1272563
(S) Toluene-d8	*101*			*80.0-120*		*04/26/2019 17:47*	WG1272563
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/26/2019 17:47*	WG1272563
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*04/26/2019 17:47*	WG1272563

JC 5/13/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	267000		2710	20000	1	05/04/2019 20:24	WG1275809

Sample Narrative:

L1093242-01 WG1275809: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	23600		51.9	1000	1	04/27/2019 13:06	WG1272741
Nitrate	U		22.7	100	1	04/27/2019 13:06	WG1272741
Sulfate	15900		77.4	5000	1	04/27/2019 13:06	WG1272741

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3320		102	1000	1	04/29/2019 19:55	WG1273394

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3420		15.0	100	1	05/07/2019 23:12	WG1271844
Manganese	695		0.250	5.00	1	05/07/2019 23:12	WG1271844

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/01/2019 15:18	WG1274492
(S) a,a,a-Trifluorotoluene(FID)	*92.9*			*78.0-120*		*05/01/2019 15:18*	WG1274492

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	42.1		0.287	0.678	1	05/03/2019 15:01	WG1275531
Ethane	U		0.296	1.29	1	05/03/2019 15:01	WG1275531
Ethene	U		0.422	1.27	1	05/03/2019 15:01	WG1275531

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.65 U	J	1.05	25.0	1	04/27/2019 16:01	WG1272804
Acrylonitrile	U		0.873	5.00	1	04/27/2019 16:01	WG1272804
Benzene	U		0.0896	0.500	1	04/27/2019 16:01	WG1272804
Bromobenzene	U		0.133	0.500	1	04/27/2019 16:01	WG1272804
Bromodichloromethane	U		0.0800	0.500	1	04/27/2019 16:01	WG1272804
Bromochloromethane	U		0.145	0.500	1	04/27/2019 16:01	WG1272804
Bromoform	U		0.186	0.500	1	04/27/2019 16:01	WG1272804
Bromomethane	U UJ	J0	0.157	2.50	1	04/27/2019 16:01	WG1272804
n-Butylbenzene	U		0.143	0.500	1	04/27/2019 16:01	WG1272804
sec-Butylbenzene	U		0.134	0.500	1	04/27/2019 16:01	WG1272804
tert-Butylbenzene	U		0.183	0.500	1	04/27/2019 16:01	WG1272804
Carbon disulfide	0.142 J	J	0.101	0.500	1	04/27/2019 16:01	WG1272804
Carbon tetrachloride	U		0.159	0.500	1	04/27/2019 16:01	WG1272804

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/27/2019 16:01	WG1272804
Chlorodibromomethane	U		0.128	0.500	1	04/27/2019 16:01	WG1272804
Chloroethane	U UJ	J0	0.141	2.50	1	05/03/2019 13:59	WG1275623
Chloroform	U		0.0860	0.500	1	04/27/2019 16:01	WG1272804
Chloromethane	U		0.153	1.25	1	04/27/2019 16:01	WG1272804
2-Chlorotoluene	U		0.111	0.500	1	04/27/2019 16:01	WG1272804
4-Chlorotoluene	U		0.0972	0.500	1	04/27/2019 16:01	WG1272804
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/27/2019 16:01	WG1272804
1,2-Dibromoethane	U		0.193	0.500	1	04/27/2019 16:01	WG1272804
Dibromomethane	U		0.117	0.500	1	04/27/2019 16:01	WG1272804
1,2-Dichlorobenzene	U		0.101	0.500	1	04/27/2019 16:01	WG1272804
1,3-Dichlorobenzene	U		0.130	0.500	1	04/27/2019 16:01	WG1272804
1,4-Dichlorobenzene	U		0.121	0.500	1	04/27/2019 16:01	WG1272804
Dichlorodifluoromethane	U		0.127	2.50	1	04/27/2019 16:01	WG1272804
1,1-Dichloroethane	U		0.114	0.500	1	05/03/2019 13:59	WG1275623
1,2-Dichloroethane	U		0.108	0.500	1	04/27/2019 16:01	WG1272804
1,1-Dichloroethene	U		0.188	0.500	1	04/27/2019 16:01	WG1272804
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/27/2019 16:01	WG1272804
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/27/2019 16:01	WG1272804
1,2-Dichloropropane	U		0.190	0.500	1	04/27/2019 16:01	WG1272804
1,1-Dichloropropene	U		0.128	0.500	1	04/27/2019 16:01	WG1272804
1,3-Dichloropropane	U		0.147	1.00	1	04/27/2019 16:01	WG1272804
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/27/2019 16:01	WG1272804
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/27/2019 16:01	WG1272804
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/27/2019 16:01	WG1272804
2,2-Dichloropropane	U		0.0929	0.500	1	04/27/2019 16:01	WG1272804
Di-isopropyl ether	U		0.0924	0.500	1	04/27/2019 16:01	WG1272804
Ethylbenzene	U		0.158	0.500	1	04/27/2019 16:01	WG1272804
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/27/2019 16:01	WG1272804
2-Hexanone	U		0.757	5.00	1	04/27/2019 16:01	WG1272804
n-Hexane	U		0.305	5.00	1	04/27/2019 16:01	WG1272804
Iodomethane	U		0.377	10.0	1	04/27/2019 16:01	WG1272804
Isopropylbenzene	U		0.126	0.500	1	04/27/2019 16:01	WG1272804
p-Isopropyltoluene	U		0.138	0.500	1	04/27/2019 16:01	WG1272804
2-Butanone (MEK)	U		1.28	5.00	1	04/27/2019 16:01	WG1272804
Methylene Chloride	U		1.07	2.50	1	04/27/2019 16:01	WG1272804
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/27/2019 16:01	WG1272804
Methyl tert-butyl ether	U		0.102	0.500	1	04/27/2019 16:01	WG1272804
Naphthalene	U		0.174	2.50	1	04/27/2019 16:01	WG1272804
n-Propylbenzene	U		0.162	0.500	1	04/27/2019 16:01	WG1272804
Styrene	U		0.117	0.500	1	04/27/2019 16:01	WG1272804
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/27/2019 16:01	WG1272804
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/27/2019 16:01	WG1272804
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/27/2019 16:01	WG1272804
Tetrachloroethene	U		0.199	0.500	1	04/27/2019 16:01	WG1272804
Toluene	U		0.412	0.500	1	04/27/2019 16:01	WG1272804
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/27/2019 16:01	WG1272804
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/27/2019 16:01	WG1272804
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/03/2019 13:59	WG1275623
1,1,2-Trichloroethane	U		0.186	0.500	1	04/27/2019 16:01	WG1272804
Trichloroethene	U		0.153	0.500	1	04/27/2019 16:01	WG1272804
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/27/2019 16:01	WG1272804
1,2,3-Trichloropropane	U		0.247	2.50	1	04/27/2019 16:01	WG1272804
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/27/2019 16:01	WG1272804
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/27/2019 16:01	WG1272804
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/27/2019 16:01	WG1272804

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	04/27/2019 16:01	WG1272804
Vinyl chloride	U UJ	J0	0.118	0.500	1	04/27/2019 16:01	WG1272804
Xylenes, Total	U		0.316	1.50	1	04/27/2019 16:01	WG1272804
(S) Toluene-d8	*97.8*			*80.0-120*		*04/27/2019 16:01*	WG1272804
(S) Toluene-d8	*96.7*			*80.0-120*		*05/03/2019 13:59*	WG1275623
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/27/2019 16:01*	WG1272804
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*05/03/2019 13:59*	WG1275623
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*04/27/2019 16:01*	WG1272804
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*		*05/03/2019 13:59*	WG1275623

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 5/13/19

MW145-042619

Collected date/time: 04/26/19 11:40

SAMPLE RESULTS - 02

L1093242

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	287000		2710	20000	1	05/04/2019 20:31	WG1275809

Sample Narrative:

L1093242-02 WG1275809: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	44700		51.9	1000	1	04/27/2019 13:21	WG1272741
Nitrate	U		22.7	100	1	04/27/2019 13:21	WG1272741
Sulfate	73900		77.4	5000	1	04/27/2019 13:21	WG1272741

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5290		102	1000	1	04/29/2019 20:10	WG1273394

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	5730		15.0	100	1	05/07/2019 23:17	WG1271844
Manganese	318		0.250	5.00	1	05/07/2019 23:17	WG1271844

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/01/2019 15:38	WG1274492
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*78.0-120*		*05/01/2019 15:38*	WG1274492

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	455		0.287	0.678	1	05/03/2019 15:15	WG1275531
Ethane	1.73		0.296	1.29	1	05/03/2019 15:15	WG1275531
Ethene	5.24		0.422	1.27	1	05/03/2019 15:15	WG1275531

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	3.01 U	J	1.05	25.0	1	04/27/2019 16:21	WG1272804
Acrylonitrile	U		0.873	5.00	1	04/27/2019 16:21	WG1272804
Benzene	U		0.0896	0.500	1	04/27/2019 16:21	WG1272804
Bromobenzene	U		0.133	0.500	1	04/27/2019 16:21	WG1272804
Bromodichloromethane	U		0.0800	0.500	1	04/27/2019 16:21	WG1272804
Bromochloromethane	U		0.145	0.500	1	04/27/2019 16:21	WG1272804
Bromoform	U		0.186	0.500	1	04/27/2019 16:21	WG1272804
Bromomethane	U UJ	J0	0.157	2.50	1	04/27/2019 16:21	WG1272804
n-Butylbenzene	U		0.143	0.500	1	04/27/2019 16:21	WG1272804
sec-Butylbenzene	U		0.134	0.500	1	04/27/2019 16:21	WG1272804
tert-Butylbenzene	U		0.183	0.500	1	04/27/2019 16:21	WG1272804
Carbon disulfide	0.365 J	J	0.101	0.500	1	04/27/2019 16:21	WG1272804
Carbon tetrachloride	U		0.159	0.500	1	04/27/2019 16:21	WG1272804

JC 5/13/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	04/27/2019 16:21	WG1272804
Chlorodibromomethane	U		0.128	0.500	1	04/27/2019 16:21	WG1272804
Chloroethane	U	UJ J0	0.141	2.50	1	05/03/2019 14:19	WG1275623
Chloroform	U		0.0860	0.500	1	04/27/2019 16:21	WG1272804
Chloromethane	U		0.153	1.25	1	04/27/2019 16:21	WG1272804
2-Chlorotoluene	U		0.111	0.500	1	04/27/2019 16:21	WG1272804
4-Chlorotoluene	U		0.0972	0.500	1	04/27/2019 16:21	WG1272804
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/27/2019 16:21	WG1272804
1,2-Dibromoethane	U		0.193	0.500	1	04/27/2019 16:21	WG1272804
Dibromomethane	U		0.117	0.500	1	04/27/2019 16:21	WG1272804
1,2-Dichlorobenzene	U		0.101	0.500	1	04/27/2019 16:21	WG1272804
1,3-Dichlorobenzene	U		0.130	0.500	1	04/27/2019 16:21	WG1272804
1,4-Dichlorobenzene	U		0.121	0.500	1	04/27/2019 16:21	WG1272804
Dichlorodifluoromethane	U		0.127	2.50	1	04/27/2019 16:21	WG1272804
1,1-Dichloroethane	U		0.114	0.500	1	05/03/2019 14:19	WG1275623
1,2-Dichloroethane	U		0.108	0.500	1	04/27/2019 16:21	WG1272804
1,1-Dichloroethene	U		0.188	0.500	1	04/27/2019 16:21	WG1272804
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/27/2019 16:21	WG1272804
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/27/2019 16:21	WG1272804
1,2-Dichloropropane	U		0.190	0.500	1	04/27/2019 16:21	WG1272804
1,1-Dichloropropene	U		0.128	0.500	1	04/27/2019 16:21	WG1272804
1,3-Dichloropropane	U		0.147	1.00	1	04/27/2019 16:21	WG1272804
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/27/2019 16:21	WG1272804
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/27/2019 16:21	WG1272804
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/27/2019 16:21	WG1272804
2,2-Dichloropropane	U		0.0929	0.500	1	04/27/2019 16:21	WG1272804
Di-isopropyl ether	U		0.0924	0.500	1	04/27/2019 16:21	WG1272804
Ethylbenzene	U		0.158	0.500	1	04/27/2019 16:21	WG1272804
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/27/2019 16:21	WG1272804
2-Hexanone	U		0.757	5.00	1	04/27/2019 16:21	WG1272804
n-Hexane	U		0.305	5.00	1	04/27/2019 16:21	WG1272804
Iodomethane	U		0.377	10.0	1	04/27/2019 16:21	WG1272804
Isopropylbenzene	U		0.126	0.500	1	04/27/2019 16:21	WG1272804
p-Isopropyltoluene	U		0.138	0.500	1	04/27/2019 16:21	WG1272804
2-Butanone (MEK)	U		1.28	5.00	1	04/27/2019 16:21	WG1272804
Methylene Chloride	U		1.07	2.50	1	04/27/2019 16:21	WG1272804
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/27/2019 16:21	WG1272804
Methyl tert-butyl ether	U		0.102	0.500	1	04/27/2019 16:21	WG1272804
Naphthalene	U		0.174	2.50	1	04/27/2019 16:21	WG1272804
n-Propylbenzene	U		0.162	0.500	1	04/27/2019 16:21	WG1272804
Styrene	U		0.117	0.500	1	04/27/2019 16:21	WG1272804
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/27/2019 16:21	WG1272804
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/27/2019 16:21	WG1272804
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/27/2019 16:21	WG1272804
Tetrachloroethene	U		0.199	0.500	1	04/27/2019 16:21	WG1272804
Toluene	U		0.412	0.500	1	04/27/2019 16:21	WG1272804
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/27/2019 16:21	WG1272804
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/27/2019 16:21	WG1272804
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/03/2019 14:19	WG1275623
1,1,2-Trichloroethane	U		0.186	0.500	1	04/27/2019 16:21	WG1272804
Trichloroethene	U		0.153	0.500	1	04/27/2019 16:21	WG1272804
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/27/2019 16:21	WG1272804
1,2,3-Trichloropropane	U		0.247	2.50	1	04/27/2019 16:21	WG1272804
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/27/2019 16:21	WG1272804
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/27/2019 16:21	WG1272804
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/27/2019 16:21	WG1272804

JC 5/13/19

MW145-042619

Collected date/time: 04/26/19 11:40

SAMPLE RESULTS - 02

L1093242

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	04/27/2019 16:21	WG1272804
Vinyl chloride	0.392 J	J J0	0.118	0.500	1	04/27/2019 16:21	WG1272804
Xylenes, Total	U		0.316	1.50	1	04/27/2019 16:21	WG1272804
(S) Toluene-d8	*99.1*			*80.0-120*		*04/27/2019 16:21*	WG1272804
(S) Toluene-d8	*99.5*			*80.0-120*		*05/03/2019 14:19*	WG1275623
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/27/2019 16:21*	WG1272804
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*05/03/2019 14:19*	WG1275623
(S) 1,2-Dichloroethane-d4	*96.0*			*70.0-130*		*04/27/2019 16:21*	WG1272804
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*05/03/2019 14:19*	WG1275623

JC 5/13/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	04/27/2019 16:41	WG1272804
Acrylonitrile	U		0.873	5.00	1	04/27/2019 16:41	WG1272804
Benzene	0.291 J	J	0.0896	0.500	1	04/27/2019 16:41	WG1272804
Bromobenzene	U		0.133	0.500	1	04/27/2019 16:41	WG1272804
Bromodichloromethane	U		0.0800	0.500	1	04/27/2019 16:41	WG1272804
Bromochloromethane	U		0.145	0.500	1	04/27/2019 16:41	WG1272804
Bromoform	U		0.186	0.500	1	04/27/2019 16:41	WG1272804
Bromomethane	U UJ	J0	0.157	2.50	1	04/27/2019 16:41	WG1272804
n-Butylbenzene	U		0.143	0.500	1	04/27/2019 16:41	WG1272804
sec-Butylbenzene	U		0.134	0.500	1	04/27/2019 16:41	WG1272804
tert-Butylbenzene	U		0.183	0.500	1	04/27/2019 16:41	WG1272804
Carbon disulfide	U		0.101	0.500	1	04/27/2019 16:41	WG1272804
Carbon tetrachloride	U		0.159	0.500	1	04/27/2019 16:41	WG1272804
Chlorobenzene	U		0.140	0.500	1	04/27/2019 16:41	WG1272804
Chlorodibromomethane	U		0.128	0.500	1	04/27/2019 16:41	WG1272804
Chloroethane	U UJ	J0	7.05	125	50	05/03/2019 16:20	WG1275623
Chloroform	U		0.0860	0.500	1	04/27/2019 16:41	WG1272804
Chloromethane	U		0.153	1.25	1	04/27/2019 16:41	WG1272804
2-Chlorotoluene	U		0.111	0.500	1	04/27/2019 16:41	WG1272804
4-Chlorotoluene	U		0.0972	0.500	1	04/27/2019 16:41	WG1272804
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/27/2019 16:41	WG1272804
1,2-Dibromoethane	U		0.193	0.500	1	04/27/2019 16:41	WG1272804
Dibromomethane	U		0.117	0.500	1	04/27/2019 16:41	WG1272804
1,2-Dichlorobenzene	U		0.101	0.500	1	04/27/2019 16:41	WG1272804
1,3-Dichlorobenzene	U		0.130	0.500	1	04/27/2019 16:41	WG1272804
1,4-Dichlorobenzene	U		0.121	0.500	1	04/27/2019 16:41	WG1272804
Dichlorodifluoromethane	U		0.127	2.50	1	04/27/2019 16:41	WG1272804
1,1-Dichloroethane	U		5.70	25.0	50	05/03/2019 16:20	WG1275623
1,2-Dichloroethane	U		0.108	0.500	1	04/27/2019 16:41	WG1272804
1,1-Dichloroethene	7.03		0.188	0.500	1	04/27/2019 16:41	WG1272804
cis-1,2-Dichloroethene	710		4.66	25.0	50	05/03/2019 16:20	WG1275623
trans-1,2-Dichloroethene	5.59		0.152	0.500	1	04/27/2019 16:41	WG1272804
1,2-Dichloropropane	U		0.190	0.500	1	04/27/2019 16:41	WG1272804
1,1-Dichloropropene	U		0.128	0.500	1	04/27/2019 16:41	WG1272804
1,3-Dichloropropane	U		0.147	1.00	1	04/27/2019 16:41	WG1272804
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/27/2019 16:41	WG1272804
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/27/2019 16:41	WG1272804
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/27/2019 16:41	WG1272804
2,2-Dichloropropane	U		0.0929	0.500	1	04/27/2019 16:41	WG1272804
Di-isopropyl ether	U		0.0924	0.500	1	04/27/2019 16:41	WG1272804
Ethylbenzene	U		0.158	0.500	1	04/27/2019 16:41	WG1272804
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/27/2019 16:41	WG1272804
2-Hexanone	U		0.757	5.00	1	04/27/2019 16:41	WG1272804
n-Hexane	U		0.305	5.00	1	04/27/2019 16:41	WG1272804
Iodomethane	U		0.377	10.0	1	04/27/2019 16:41	WG1272804
Isopropylbenzene	U		0.126	0.500	1	04/27/2019 16:41	WG1272804
p-Isopropyltoluene	U		0.138	0.500	1	04/27/2019 16:41	WG1272804
2-Butanone (MEK)	U		1.28	5.00	1	04/27/2019 16:41	WG1272804
Methylene Chloride	U		1.07	2.50	1	04/27/2019 16:41	WG1272804
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/27/2019 16:41	WG1272804
Methyl tert-butyl ether	U		0.102	0.500	1	04/27/2019 16:41	WG1272804
Naphthalene	U		0.174	2.50	1	04/27/2019 16:41	WG1272804
n-Propylbenzene	U		0.162	0.500	1	04/27/2019 16:41	WG1272804
Styrene	U		0.117	0.500	1	04/27/2019 16:41	WG1272804
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/27/2019 16:41	WG1272804
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/27/2019 16:41	WG1272804

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/27/2019 16:41	WG1272804
Tetrachloroethene	1500		9.95	25.0	50	05/03/2019 16:20	WG1275623
Toluene	U		0.412	0.500	1	04/27/2019 16:41	WG1272804
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/27/2019 16:41	WG1272804
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/27/2019 16:41	WG1272804
1,1,1-Trichloroethane	U		4.70	25.0	50	05/03/2019 16:20	WG1275623
1,1,2-Trichloroethane	U		0.186	0.500	1	04/27/2019 16:41	WG1272804
Trichloroethene	613		7.65	25.0	50	05/03/2019 16:20	WG1275623
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/27/2019 16:41	WG1272804
1,2,3-Trichloropropane	U		0.247	2.50	1	04/27/2019 16:41	WG1272804
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/27/2019 16:41	WG1272804
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/27/2019 16:41	WG1272804
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/27/2019 16:41	WG1272804
Vinyl acetate	U		0.645	5.00	1	04/27/2019 16:41	WG1272804
Vinyl chloride	0.900 J	J0	0.118	0.500	1	04/27/2019 16:41	WG1272804
Xylenes, Total	U		0.316	1.50	1	04/27/2019 16:41	WG1272804
(S) Toluene-d8	*99.1*			*80.0-120*		*04/27/2019 16:41*	WG1272804
(S) Toluene-d8	*98.7*			*80.0-120*		*05/03/2019 16:20*	WG1275623
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/27/2019 16:41*	WG1272804
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*05/03/2019 16:20*	WG1275623
(S) 1,2-Dichloroethane-d4	*92.1*			*70.0-130*		*04/27/2019 16:41*	WG1272804
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*05/03/2019 16:20*	WG1275623

Sample Narrative:

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L1093242-03 WG1272804, WG1275623: Not all compounds reportable at lower dilution.

L1093242-03 WG1272804, WG1275623: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/01/2019 13:35	WG1274492
(S) a,a,a-Trifluorotoluene(FID)	*92.8*			*78.0-120*		*05/01/2019 13:35*	WG1274492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.43	J	1.05	25.0	1	04/27/2019 11:51	WG1272804
Acrylonitrile	U		0.873	5.00	1	04/27/2019 11:51	WG1272804
Benzene	U		0.0896	0.500	1	04/27/2019 11:51	WG1272804
Bromobenzene	U		0.133	0.500	1	04/27/2019 11:51	WG1272804
Bromodichloromethane	U		0.0800	0.500	1	04/27/2019 11:51	WG1272804
Bromochloromethane	U		0.145	0.500	1	04/27/2019 11:51	WG1272804
Bromoform	U		0.186	0.500	1	04/27/2019 11:51	WG1272804
Bromomethane	U UJ	J0	0.157	2.50	1	04/27/2019 11:51	WG1272804
n-Butylbenzene	U		0.143	0.500	1	04/27/2019 11:51	WG1272804
sec-Butylbenzene	U		0.134	0.500	1	04/27/2019 11:51	WG1272804
tert-Butylbenzene	U		0.183	0.500	1	04/27/2019 11:51	WG1272804
Carbon disulfide	U		0.101	0.500	1	04/27/2019 11:51	WG1272804
Carbon tetrachloride	U		0.159	0.500	1	04/27/2019 11:51	WG1272804
Chlorobenzene	U		0.140	0.500	1	04/27/2019 11:51	WG1272804
Chlorodibromomethane	U		0.128	0.500	1	04/27/2019 11:51	WG1272804
Chloroethane	U UJ	J0	0.141	2.50	1	04/27/2019 11:51	WG1272804
Chloroform	U		0.0860	0.500	1	04/27/2019 11:51	WG1272804
Chloromethane	U		0.153	1.25	1	04/27/2019 11:51	WG1272804
2-Chlorotoluene	U		0.111	0.500	1	04/27/2019 11:51	WG1272804
4-Chlorotoluene	U		0.0972	0.500	1	04/27/2019 11:51	WG1272804
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/27/2019 11:51	WG1272804
1,2-Dibromoethane	U		0.193	0.500	1	04/27/2019 11:51	WG1272804
Dibromomethane	U		0.117	0.500	1	04/27/2019 11:51	WG1272804
1,2-Dichlorobenzene	U		0.101	0.500	1	04/27/2019 11:51	WG1272804
1,3-Dichlorobenzene	U		0.130	0.500	1	04/27/2019 11:51	WG1272804
1,4-Dichlorobenzene	U		0.121	0.500	1	04/27/2019 11:51	WG1272804
Dichlorodifluoromethane	U		0.127	2.50	1	04/27/2019 11:51	WG1272804
1,1-Dichloroethane	U		0.114	0.500	1	04/27/2019 11:51	WG1272804
1,2-Dichloroethane	U		0.108	0.500	1	04/27/2019 11:51	WG1272804
1,1-Dichloroethene	U		0.188	0.500	1	04/27/2019 11:51	WG1272804
cis-1,2-Dichloroethene	U		0.0933	0.500	1	04/27/2019 11:51	WG1272804
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/27/2019 11:51	WG1272804
1,2-Dichloropropane	U		0.190	0.500	1	04/27/2019 11:51	WG1272804
1,1-Dichloropropene	U		0.128	0.500	1	04/27/2019 11:51	WG1272804
1,3-Dichloropropane	U		0.147	1.00	1	04/27/2019 11:51	WG1272804
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/27/2019 11:51	WG1272804
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/27/2019 11:51	WG1272804
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/27/2019 11:51	WG1272804
2,2-Dichloropropane	U		0.0929	0.500	1	04/27/2019 11:51	WG1272804
Di-isopropyl ether	U		0.0924	0.500	1	04/27/2019 11:51	WG1272804
Ethylbenzene	U		0.158	0.500	1	04/27/2019 11:51	WG1272804
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/27/2019 11:51	WG1272804
2-Hexanone	U		0.757	5.00	1	04/27/2019 11:51	WG1272804
n-Hexane	U		0.305	5.00	1	04/27/2019 11:51	WG1272804
Iodomethane	U		0.377	10.0	1	04/27/2019 11:51	WG1272804
Isopropylbenzene	U		0.126	0.500	1	04/27/2019 11:51	WG1272804
p-Isopropyltoluene	U		0.138	0.500	1	04/27/2019 11:51	WG1272804
2-Butanone (MEK)	U		1.28	5.00	1	04/27/2019 11:51	WG1272804

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	04/27/2019 11:51	WG1272804
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/27/2019 11:51	WG1272804
Methyl tert-butyl ether	U		0.102	0.500	1	04/27/2019 11:51	WG1272804
Naphthalene	U		0.174	2.50	1	04/27/2019 11:51	WG1272804
n-Propylbenzene	U		0.162	0.500	1	04/27/2019 11:51	WG1272804
Styrene	U		0.117	0.500	1	04/27/2019 11:51	WG1272804
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/27/2019 11:51	WG1272804
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/27/2019 11:51	WG1272804
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/27/2019 11:51	WG1272804
Tetrachloroethene	U		0.199	0.500	1	04/27/2019 11:51	WG1272804
Toluene	U		0.412	0.500	1	04/27/2019 11:51	WG1272804
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/27/2019 11:51	WG1272804
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/27/2019 11:51	WG1272804
1,1,1-Trichloroethane	U		0.0940	0.500	1	04/27/2019 11:51	WG1272804
1,1,2-Trichloroethane	U		0.186	0.500	1	04/27/2019 11:51	WG1272804
Trichloroethene	U		0.153	0.500	1	04/27/2019 11:51	WG1272804
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/27/2019 11:51	WG1272804
1,2,3-Trichloropropane	U		0.247	2.50	1	04/27/2019 11:51	WG1272804
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/27/2019 11:51	WG1272804
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/27/2019 11:51	WG1272804
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/27/2019 11:51	WG1272804
Vinyl acetate	U		0.645	5.00	1	04/27/2019 11:51	WG1272804
Vinyl chloride	U	UJ J0	0.118	0.500	1	04/27/2019 11:51	WG1272804
Xylenes, Total	U		0.316	1.50	1	04/27/2019 11:51	WG1272804
(S) Toluene-d8	*106*			*80.0-120*		*04/27/2019 11:51*	WG1272804
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/27/2019 11:51*	WG1272804
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/27/2019 11:51*	WG1272804

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MW-910-042619
Collected date/time: 04/26/19 08:15

SAMPLE RESULTS - 05

L1093242

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/01/2019 15:59	WG1274492
(S) a,a,a-Trifluorotoluene(FID)	*93.2*			*78.0-120*		*05/01/2019 15:59*	WG1274492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.65 U	J	1.05	25.0	1	04/27/2019 17:01	WG1272804
Acrylonitrile	U		0.873	5.00	1	04/27/2019 17:01	WG1272804
Benzene	0.193 J	J	0.0896	0.500	1	04/27/2019 17:01	WG1272804
Bromobenzene	U		0.133	0.500	1	04/27/2019 17:01	WG1272804
Bromodichloromethane	U		0.0800	0.500	1	04/27/2019 17:01	WG1272804
Bromochloromethane	U		0.145	0.500	1	04/27/2019 17:01	WG1272804
Bromoform	U		0.186	0.500	1	04/27/2019 17:01	WG1272804
Bromomethane	U UJ	J0	0.157	2.50	1	04/27/2019 17:01	WG1272804
n-Butylbenzene	U		0.143	0.500	1	04/27/2019 17:01	WG1272804
sec-Butylbenzene	U		0.134	0.500	1	04/27/2019 17:01	WG1272804
tert-Butylbenzene	U		0.183	0.500	1	04/27/2019 17:01	WG1272804
Carbon disulfide	U		0.101	0.500	1	04/27/2019 17:01	WG1272804
Carbon tetrachloride	U		0.159	0.500	1	04/27/2019 17:01	WG1272804
Chlorobenzene	U		0.140	0.500	1	04/27/2019 17:01	WG1272804
Chlorodibromomethane	U		0.128	0.500	1	04/27/2019 17:01	WG1272804
Chloroethane	U UJ	J0	0.141	2.50	1	05/03/2019 14:59	WG1275623
Chloroform	U		0.0860	0.500	1	04/27/2019 17:01	WG1272804
Chloromethane	U		0.153	1.25	1	04/27/2019 17:01	WG1272804
2-Chlorotoluene	U		0.111	0.500	1	04/27/2019 17:01	WG1272804
4-Chlorotoluene	U		0.0972	0.500	1	04/27/2019 17:01	WG1272804
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/27/2019 17:01	WG1272804
1,2-Dibromoethane	U		0.193	0.500	1	04/27/2019 17:01	WG1272804
Dibromomethane	U		0.117	0.500	1	04/27/2019 17:01	WG1272804
1,2-Dichlorobenzene	U		0.101	0.500	1	04/27/2019 17:01	WG1272804
1,3-Dichlorobenzene	U		0.130	0.500	1	04/27/2019 17:01	WG1272804
1,4-Dichlorobenzene	U		0.121	0.500	1	04/27/2019 17:01	WG1272804
Dichlorodifluoromethane	U		0.127	2.50	1	04/27/2019 17:01	WG1272804
1,1-Dichloroethane	U		0.114	0.500	1	05/03/2019 14:59	WG1275623
1,2-Dichloroethane	U		0.108	0.500	1	04/27/2019 17:01	WG1272804
1,1-Dichloroethene	U		0.188	0.500	1	04/27/2019 17:01	WG1272804
cis-1,2-Dichloroethene	1.12		0.0933	0.500	1	05/03/2019 14:59	WG1275623
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/27/2019 17:01	WG1272804
1,2-Dichloropropane	U		0.190	0.500	1	04/27/2019 17:01	WG1272804
1,1-Dichloropropene	U		0.128	0.500	1	04/27/2019 17:01	WG1272804
1,3-Dichloropropane	U		0.147	1.00	1	04/27/2019 17:01	WG1272804
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/27/2019 17:01	WG1272804
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/27/2019 17:01	WG1272804
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/27/2019 17:01	WG1272804
2,2-Dichloropropane	U		0.0929	0.500	1	04/27/2019 17:01	WG1272804
Di-isopropyl ether	U		0.0924	0.500	1	04/27/2019 17:01	WG1272804
Ethylbenzene	U		0.158	0.500	1	04/27/2019 17:01	WG1272804
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/27/2019 17:01	WG1272804
2-Hexanone	U		0.757	5.00	1	04/27/2019 17:01	WG1272804
n-Hexane	U		0.305	5.00	1	04/27/2019 17:01	WG1272804
Iodomethane	U		0.377	10.0	1	04/27/2019 17:01	WG1272804
Isopropylbenzene	U		0.126	0.500	1	04/27/2019 17:01	WG1272804
p-Isopropyltoluene	U		0.138	0.500	1	04/27/2019 17:01	WG1272804
2-Butanone (MEK)	U		1.28	5.00	1	04/27/2019 17:01	WG1272804

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	04/27/2019 17:01	WG1272804
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/27/2019 17:01	WG1272804
Methyl tert-butyl ether	U		0.102	0.500	1	04/27/2019 17:01	WG1272804
Naphthalene	U		0.174	2.50	1	04/27/2019 17:01	WG1272804
n-Propylbenzene	U		0.162	0.500	1	04/27/2019 17:01	WG1272804
Styrene	U		0.117	0.500	1	04/27/2019 17:01	WG1272804
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/27/2019 17:01	WG1272804
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/27/2019 17:01	WG1272804
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/27/2019 17:01	WG1272804
Tetrachloroethene	U		0.199	0.500	1	05/03/2019 14:59	WG1275623
Toluene	U		0.412	0.500	1	04/27/2019 17:01	WG1272804
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/27/2019 17:01	WG1272804
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/27/2019 17:01	WG1272804
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/03/2019 14:59	WG1275623
1,1,2-Trichloroethane	U		0.186	0.500	1	04/27/2019 17:01	WG1272804
Trichloroethene	U		0.153	0.500	1	05/03/2019 14:59	WG1275623
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/27/2019 17:01	WG1272804
1,2,3-Trichloropropane	U		0.247	2.50	1	04/27/2019 17:01	WG1272804
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/27/2019 17:01	WG1272804
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/27/2019 17:01	WG1272804
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/27/2019 17:01	WG1272804
Vinyl acetate	U		0.645	5.00	1	04/27/2019 17:01	WG1272804
Vinyl chloride	1.04 J	J0	0.118	0.500	1	04/27/2019 17:01	WG1272804
Xylenes, Total	U		0.316	1.50	1	04/27/2019 17:01	WG1272804
(S) Toluene-d8	*99.1*			*80.0-120*		*04/27/2019 17:01*	WG1272804
(S) Toluene-d8	*98.3*			*80.0-120*		*05/03/2019 14:59*	WG1275623
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/27/2019 17:01*	WG1272804
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*05/03/2019 14:59*	WG1275623
(S) 1,2-Dichloroethane-d4	*94.7*			*70.0-130*		*04/27/2019 17:01*	WG1272804
(S) 1,2-Dichloroethane-d4	*93.6*			*70.0-130*		*05/03/2019 14:59*	WG1275623

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	161000		2710	20000	1	05/04/2019 20:39	WG1275809

Sample Narrative:

L1093242-06 WG1275809: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	17100		51.9	1000	1	04/27/2019 14:05	WG1272741
Nitrate	U		22.7	100	1	04/27/2019 14:05	WG1272741
Sulfate	175000		387	25000	5	04/27/2019 14:58	WG1272741

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5190		102	1000	1	04/29/2019 20:23	WG1273394

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2910		15.0	100	1	05/07/2019 23:21	WG1271844
Manganese	420		0.250	5.00	1	05/07/2019 23:21	WG1271844

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/01/2019 16:20	WG1274492
(S) a,a,a-Trifluorotoluene(FID)	*93.7*			*78.0-120*		*05/01/2019 16:20*	WG1274492

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1600		0.287	0.678	1	05/03/2019 15:20	WG1275531
Ethane	U		0.296	1.29	1	05/03/2019 15:20	WG1275531
Ethene	3.65		0.422	1.27	1	05/03/2019 15:20	WG1275531

Volatile Organic Compounds (GC/MS) by Method 8260C

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Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.70	U J	1.05	25.0	1	04/27/2019 17:21	WG1272804
Acrylonitrile	U		0.873	5.00	1	04/27/2019 17:21	WG1272804
Benzene	U		0.0896	0.500	1	04/27/2019 17:21	WG1272804
Bromobenzene	U		0.133	0.500	1	04/27/2019 17:21	WG1272804
Bromodichloromethane	U		0.0800	0.500	1	04/27/2019 17:21	WG1272804
Bromochloromethane	U		0.145	0.500	1	04/27/2019 17:21	WG1272804
Bromoform	U		0.186	0.500	1	04/27/2019 17:21	WG1272804
Bromomethane	U	UJ J0	0.157	2.50	1	04/27/2019 17:21	WG1272804
n-Butylbenzene	U		0.143	0.500	1	04/27/2019 17:21	WG1272804
sec-Butylbenzene	U		0.134	0.500	1	04/27/2019 17:21	WG1272804
tert-Butylbenzene	U		0.183	0.500	1	04/27/2019 17:21	WG1272804
Carbon disulfide	0.198	J J	0.101	0.500	1	04/27/2019 17:21	WG1272804
Carbon tetrachloride	U		0.159	0.500	1	04/27/2019 17:21	WG1272804

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	04/27/2019 17:21	WG1272804
Chlorodibromomethane	U		0.128	0.500	1	04/27/2019 17:21	WG1272804
Chloroethane	U UJ	J0	0.141	2.50	1	05/03/2019 15:19	WG1275623
Chloroform	U		0.0860	0.500	1	04/27/2019 17:21	WG1272804
Chloromethane	U		0.153	1.25	1	04/27/2019 17:21	WG1272804
2-Chlorotoluene	U		0.111	0.500	1	04/27/2019 17:21	WG1272804
4-Chlorotoluene	U		0.0972	0.500	1	04/27/2019 17:21	WG1272804
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/27/2019 17:21	WG1272804
1,2-Dibromoethane	U		0.193	0.500	1	04/27/2019 17:21	WG1272804
Dibromomethane	U		0.117	0.500	1	04/27/2019 17:21	WG1272804
1,2-Dichlorobenzene	U		0.101	0.500	1	04/27/2019 17:21	WG1272804
1,3-Dichlorobenzene	U		0.130	0.500	1	04/27/2019 17:21	WG1272804
1,4-Dichlorobenzene	U		0.121	0.500	1	04/27/2019 17:21	WG1272804
Dichlorodifluoromethane	U		0.127	2.50	1	04/27/2019 17:21	WG1272804
1,1-Dichloroethane	U		0.114	0.500	1	05/03/2019 15:19	WG1275623
1,2-Dichloroethane	U		0.108	0.500	1	04/27/2019 17:21	WG1272804
1,1-Dichloroethene	U		0.188	0.500	1	04/27/2019 17:21	WG1272804
cis-1,2-Dichloroethene	U		0.0933	0.500	1	05/03/2019 15:19	WG1275623
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/27/2019 17:21	WG1272804
1,2-Dichloropropane	U		0.190	0.500	1	04/27/2019 17:21	WG1272804
1,1-Dichloropropene	U		0.128	0.500	1	04/27/2019 17:21	WG1272804
1,3-Dichloropropane	U		0.147	1.00	1	04/27/2019 17:21	WG1272804
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/27/2019 17:21	WG1272804
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/27/2019 17:21	WG1272804
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/27/2019 17:21	WG1272804
2,2-Dichloropropane	U		0.0929	0.500	1	04/27/2019 17:21	WG1272804
Di-isopropyl ether	U		0.0924	0.500	1	04/27/2019 17:21	WG1272804
Ethylbenzene	U		0.158	0.500	1	04/27/2019 17:21	WG1272804
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/27/2019 17:21	WG1272804
2-Hexanone	U		0.757	5.00	1	04/27/2019 17:21	WG1272804
n-Hexane	U		0.305	5.00	1	04/27/2019 17:21	WG1272804
Iodomethane	U		0.377	10.0	1	04/27/2019 17:21	WG1272804
Isopropylbenzene	U		0.126	0.500	1	04/27/2019 17:21	WG1272804
p-Isopropyltoluene	U		0.138	0.500	1	04/27/2019 17:21	WG1272804
2-Butanone (MEK)	U		1.28	5.00	1	04/27/2019 17:21	WG1272804
Methylene Chloride	U		1.07	2.50	1	04/27/2019 17:21	WG1272804
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/27/2019 17:21	WG1272804
Methyl tert-butyl ether	U		0.102	0.500	1	04/27/2019 17:21	WG1272804
Naphthalene	U		0.174	2.50	1	04/27/2019 17:21	WG1272804
n-Propylbenzene	U		0.162	0.500	1	04/27/2019 17:21	WG1272804
Styrene	U		0.117	0.500	1	04/27/2019 17:21	WG1272804
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/27/2019 17:21	WG1272804
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/27/2019 17:21	WG1272804
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/27/2019 17:21	WG1272804
Tetrachloroethene	U		0.199	0.500	1	05/03/2019 15:19	WG1275623
Toluene	U		0.412	0.500	1	04/27/2019 17:21	WG1272804
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/27/2019 17:21	WG1272804
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/27/2019 17:21	WG1272804
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/03/2019 15:19	WG1275623
1,1,2-Trichloroethane	U		0.186	0.500	1	04/27/2019 17:21	WG1272804
Trichloroethene	U		0.153	0.500	1	04/27/2019 17:21	WG1272804
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	04/27/2019 17:21	WG1272804
1,2,3-Trichloropropane	U		0.247	2.50	1	04/27/2019 17:21	WG1272804
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/27/2019 17:21	WG1272804
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/27/2019 17:21	WG1272804
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/27/2019 17:21	WG1272804

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U			0.645	5.00	1	04/27/2019 17:21	WG1272804
Vinyl chloride	0.277	J	J J0	0.118	0.500	1	04/27/2019 17:21	WG1272804
Xylenes, Total	U			0.316	1.50	1	04/27/2019 17:21	WG1272804
(S) Toluene-d8	*97.2*				*80.0-120*		*04/27/2019 17:21*	WG1272804
(S) Toluene-d8	*98.2*				*80.0-120*		*05/03/2019 15:19*	WG1275623
(S) 4-Bromofluorobenzene	*103*				*77.0-126*		*04/27/2019 17:21*	WG1272804
(S) 4-Bromofluorobenzene	*99.8*				*77.0-126*		*05/03/2019 15:19*	WG1275623
(S) 1,2-Dichloroethane-d4	*96.1*				*70.0-130*		*04/27/2019 17:21*	WG1272804
(S) 1,2-Dichloroethane-d4	*99.3*				*70.0-130*		*05/03/2019 15:19*	WG1275623

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Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/01/2019 16:40	WG1274492
(S) a,a,a-Trifluorotoluene(FID)	*93.8*			*78.0-120*		*05/01/2019 16:40*	WG1274492

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	04/27/2019 17:41	WG1272804
Acrylonitrile	U		0.873	5.00	1	04/27/2019 17:41	WG1272804
Benzene	0.179 J	J	0.0896	0.500	1	04/27/2019 17:41	WG1272804
Bromobenzene	U		0.133	0.500	1	04/27/2019 17:41	WG1272804
Bromodichloromethane	U		0.0800	0.500	1	04/27/2019 17:41	WG1272804
Bromochloromethane	U		0.145	0.500	1	04/27/2019 17:41	WG1272804
Bromoform	U		0.186	0.500	1	04/27/2019 17:41	WG1272804
Bromomethane	U UJ	J0	0.157	2.50	1	04/27/2019 17:41	WG1272804
n-Butylbenzene	U		0.143	0.500	1	04/27/2019 17:41	WG1272804
sec-Butylbenzene	U		0.134	0.500	1	04/27/2019 17:41	WG1272804
tert-Butylbenzene	U		0.183	0.500	1	04/27/2019 17:41	WG1272804
Carbon disulfide	U		0.101	0.500	1	04/27/2019 17:41	WG1272804
Carbon tetrachloride	U		0.159	0.500	1	04/27/2019 17:41	WG1272804
Chlorobenzene	U		0.140	0.500	1	04/27/2019 17:41	WG1272804
Chlorodibromomethane	U		0.128	0.500	1	04/27/2019 17:41	WG1272804
Chloroethane	U UJ	J0	0.141	2.50	1	05/03/2019 15:39	WG1275623
Chloroform	U		0.0860	0.500	1	04/27/2019 17:41	WG1272804
Chloromethane	U		0.153	1.25	1	04/27/2019 17:41	WG1272804
2-Chlorotoluene	U		0.111	0.500	1	04/27/2019 17:41	WG1272804
4-Chlorotoluene	U		0.0972	0.500	1	04/27/2019 17:41	WG1272804
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/27/2019 17:41	WG1272804
1,2-Dibromoethane	U		0.193	0.500	1	04/27/2019 17:41	WG1272804
Dibromomethane	U		0.117	0.500	1	04/27/2019 17:41	WG1272804
1,2-Dichlorobenzene	U		0.101	0.500	1	04/27/2019 17:41	WG1272804
1,3-Dichlorobenzene	U		0.130	0.500	1	04/27/2019 17:41	WG1272804
1,4-Dichlorobenzene	U		0.121	0.500	1	04/27/2019 17:41	WG1272804
Dichlorodifluoromethane	U		0.127	2.50	1	04/27/2019 17:41	WG1272804
1,1-Dichloroethane	U		0.114	0.500	1	05/03/2019 15:39	WG1275623
1,2-Dichloroethane	U		0.108	0.500	1	04/27/2019 17:41	WG1272804
1,1-Dichloroethene	U		0.188	0.500	1	04/27/2019 17:41	WG1272804
cis-1,2-Dichloroethene	1.23		0.0933	0.500	1	05/03/2019 15:39	WG1275623
trans-1,2-Dichloroethene	U		0.152	0.500	1	04/27/2019 17:41	WG1272804
1,2-Dichloropropane	U		0.190	0.500	1	04/27/2019 17:41	WG1272804
1,1-Dichloropropene	U		0.128	0.500	1	04/27/2019 17:41	WG1272804
1,3-Dichloropropane	U		0.147	1.00	1	04/27/2019 17:41	WG1272804
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/27/2019 17:41	WG1272804
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/27/2019 17:41	WG1272804
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/27/2019 17:41	WG1272804
2,2-Dichloropropane	U		0.0929	0.500	1	04/27/2019 17:41	WG1272804
Di-isopropyl ether	U		0.0924	0.500	1	04/27/2019 17:41	WG1272804
Ethylbenzene	U		0.158	0.500	1	04/27/2019 17:41	WG1272804
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/27/2019 17:41	WG1272804
2-Hexanone	U		0.757	5.00	1	04/27/2019 17:41	WG1272804
n-Hexane	U		0.305	5.00	1	04/27/2019 17:41	WG1272804
Iodomethane	U		0.377	10.0	1	04/27/2019 17:41	WG1272804
Isopropylbenzene	U		0.126	0.500	1	04/27/2019 17:41	WG1272804
p-Isopropyltoluene	U		0.138	0.500	1	04/27/2019 17:41	WG1272804
2-Butanone (MEK)	U		1.28	5.00	1	04/27/2019 17:41	WG1272804

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	04/27/2019 17:41	WG1272804
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	04/27/2019 17:41	WG1272804
Methyl tert-butyl ether	U		0.102	0.500	1	04/27/2019 17:41	WG1272804
Naphthalene	U		0.174	2.50	1	04/27/2019 17:41	WG1272804
n-Propylbenzene	U		0.162	0.500	1	04/27/2019 17:41	WG1272804
Styrene	U		0.117	0.500	1	04/27/2019 17:41	WG1272804
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	04/27/2019 17:41	WG1272804
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	04/27/2019 17:41	WG1272804
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	04/27/2019 17:41	WG1272804
Tetrachloroethene	U		0.199	0.500	1	04/27/2019 17:41	WG1272804
Toluene	U		0.412	0.500	1	04/27/2019 17:41	WG1272804
1,2,3-Trichlorobenzene	U		0.164	0.500	1	04/27/2019 17:41	WG1272804
1,2,4-Trichlorobenzene	U		0.355	0.500	1	04/27/2019 17:41	WG1272804
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/03/2019 15:39	WG1275623
1,1,2-Trichloroethane	U		0.186	0.500	1	04/27/2019 17:41	WG1272804
Trichloroethene	U		0.153	0.500	1	04/27/2019 17:41	WG1272804
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	04/27/2019 17:41	WG1272804
1,2,3-Trichloropropane	U		0.247	2.50	1	04/27/2019 17:41	WG1272804
1,2,4-Trimethylbenzene	U		0.123	0.500	1	04/27/2019 17:41	WG1272804
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	04/27/2019 17:41	WG1272804
1,3,5-Trimethylbenzene	U		0.124	0.500	1	04/27/2019 17:41	WG1272804
Vinyl acetate	U		0.645	5.00	1	04/27/2019 17:41	WG1272804
Vinyl chloride	1.03	J J0	0.118	0.500	1	04/27/2019 17:41	WG1272804
Xylenes, Total	U		0.316	1.50	1	04/27/2019 17:41	WG1272804
(S) Toluene-d8	*99.9*			*80.0-120*		*04/27/2019 17:41*	WG1272804
(S) Toluene-d8	*102*			*80.0-120*		*05/03/2019 15:39*	WG1275623
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/27/2019 17:41*	WG1272804
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*05/03/2019 15:39*	WG1275623
(S) 1,2-Dichloroethane-d4	*96.5*			*70.0-130*		*04/27/2019 17:41*	WG1272804
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*05/03/2019 15:39*	WG1275623

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	121 J+		31.6	100	1	05/01/2019 17:01	WG1274492
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*		*05/01/2019 17:01*	WG1274492

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	04/27/2019 18:01	WG1272804
Acrylonitrile	U		0.873	5.00	1	04/27/2019 18:01	WG1272804
Benzene	U		0.0896	0.500	1	04/27/2019 18:01	WG1272804
Bromobenzene	U		0.133	0.500	1	04/27/2019 18:01	WG1272804
Bromodichloromethane	U		0.0800	0.500	1	04/27/2019 18:01	WG1272804
Bromochloromethane	U		0.145	0.500	1	04/27/2019 18:01	WG1272804
Bromoform	U		0.186	0.500	1	04/27/2019 18:01	WG1272804
Bromomethane	U UJ	J0	0.157	2.50	1	04/27/2019 18:01	WG1272804
n-Butylbenzene	U		0.143	0.500	1	04/27/2019 18:01	WG1272804
sec-Butylbenzene	U		0.134	0.500	1	04/27/2019 18:01	WG1272804
tert-Butylbenzene	U		0.183	0.500	1	04/27/2019 18:01	WG1272804
Carbon disulfide	U		0.101	0.500	1	04/27/2019 18:01	WG1272804
Carbon tetrachloride	U		0.159	0.500	1	04/27/2019 18:01	WG1272804
Chlorobenzene	U		0.140	0.500	1	04/27/2019 18:01	WG1272804
Chlorodibromomethane	U		0.128	0.500	1	04/27/2019 18:01	WG1272804
Chloroethane	U UJ	J0	0.141	2.50	1	05/03/2019 16:00	WG1275623
Chloroform	U		0.0860	0.500	1	04/27/2019 18:01	WG1272804
Chloromethane	U		0.153	1.25	1	04/27/2019 18:01	WG1272804
2-Chlorotoluene	U		0.111	0.500	1	04/27/2019 18:01	WG1272804
4-Chlorotoluene	U		0.0972	0.500	1	04/27/2019 18:01	WG1272804
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	04/27/2019 18:01	WG1272804
1,2-Dibromoethane	U		0.193	0.500	1	04/27/2019 18:01	WG1272804
Dibromomethane	U		0.117	0.500	1	04/27/2019 18:01	WG1272804
1,2-Dichlorobenzene	U		0.101	0.500	1	04/27/2019 18:01	WG1272804
1,3-Dichlorobenzene	U		0.130	0.500	1	04/27/2019 18:01	WG1272804
1,4-Dichlorobenzene	U		0.121	0.500	1	04/27/2019 18:01	WG1272804
Dichlorodifluoromethane	U		0.127	2.50	1	04/27/2019 18:01	WG1272804
1,1-Dichloroethane	1.57		0.114	0.500	1	05/03/2019 16:00	WG1275623
1,2-Dichloroethane	0.229 J	J	0.108	0.500	1	04/27/2019 18:01	WG1272804
1,1-Dichloroethene	0.893		0.188	0.500	1	04/27/2019 18:01	WG1272804
cis-1,2-Dichloroethene	75.1		0.0933	0.500	1	04/27/2019 18:01	WG1272804
trans-1,2-Dichloroethene	0.261 J	J	0.152	0.500	1	04/27/2019 18:01	WG1272804
1,2-Dichloropropane	0.878		0.190	0.500	1	04/27/2019 18:01	WG1272804
1,1-Dichloropropene	U		0.128	0.500	1	04/27/2019 18:01	WG1272804
1,3-Dichloropropane	U		0.147	1.00	1	04/27/2019 18:01	WG1272804
cis-1,3-Dichloropropene	U		0.0976	0.500	1	04/27/2019 18:01	WG1272804
trans-1,3-Dichloropropene	U		0.222	0.500	1	04/27/2019 18:01	WG1272804
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	04/27/2019 18:01	WG1272804
2,2-Dichloropropane	U		0.0929	0.500	1	04/27/2019 18:01	WG1272804
Di-isopropyl ether	U		0.0924	0.500	1	04/27/2019 18:01	WG1272804
Ethylbenzene	U		0.158	0.500	1	04/27/2019 18:01	WG1272804
Hexachloro-1,3-butadiene	U		0.157	1.00	1	04/27/2019 18:01	WG1272804
2-Hexanone	U		0.757	5.00	1	04/27/2019 18:01	WG1272804
n-Hexane	U		0.305	5.00	1	04/27/2019 18:01	WG1272804
Iodomethane	U		0.377	10.0	1	04/27/2019 18:01	WG1272804
Isopropylbenzene	U		0.126	0.500	1	04/27/2019 18:01	WG1272804
p-Isopropyltoluene	U		0.138	0.500	1	04/27/2019 18:01	WG1272804
2-Butanone (MEK)	U		1.28	5.00	1	04/27/2019 18:01	WG1272804

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	04/27/2019 18:01	WG1272804
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	04/27/2019 18:01	WG1272804
Methyl tert-butyl ether	U			0.102	0.500	1	04/27/2019 18:01	WG1272804
Naphthalene	U			0.174	2.50	1	04/27/2019 18:01	WG1272804
n-Propylbenzene	U			0.162	0.500	1	04/27/2019 18:01	WG1272804
Styrene	U			0.117	0.500	1	04/27/2019 18:01	WG1272804
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	04/27/2019 18:01	WG1272804
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	04/27/2019 18:01	WG1272804
1,1,2-Trichlorotrifluoroethane	0.465	J	J	0.164	0.500	1	04/27/2019 18:01	WG1272804
Tetrachloroethene	157			0.199	0.500	1	04/27/2019 18:01	WG1272804
Toluene	U			0.412	0.500	1	04/27/2019 18:01	WG1272804
1,2,3-Trichlorobenzene	U			0.164	0.500	1	04/27/2019 18:01	WG1272804
1,2,4-Trichlorobenzene	U			0.355	0.500	1	04/27/2019 18:01	WG1272804
1,1,1-Trichloroethane	0.298	J	J	0.0940	0.500	1	05/03/2019 16:00	WG1275623
1,1,2-Trichloroethane	U			0.186	0.500	1	04/27/2019 18:01	WG1272804
Trichloroethene	45.2			0.153	0.500	1	04/27/2019 18:01	WG1272804
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	04/27/2019 18:01	WG1272804
1,2,3-Trichloropropane	U			0.247	2.50	1	04/27/2019 18:01	WG1272804
1,2,4-Trimethylbenzene	U			0.123	0.500	1	04/27/2019 18:01	WG1272804
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	04/27/2019 18:01	WG1272804
1,3,5-Trimethylbenzene	U			0.124	0.500	1	04/27/2019 18:01	WG1272804
Vinyl acetate	U			0.645	5.00	1	04/27/2019 18:01	WG1272804
Vinyl chloride	0.861	UJ	J0	0.118	0.500	1	04/27/2019 18:01	WG1272804
Xylenes, Total	U			0.316	1.50	1	04/27/2019 18:01	WG1272804
(S) Toluene-d8	*98.3*				*80.0-120*		*04/27/2019 18:01*	WG1272804
(S) Toluene-d8	*98.2*				*80.0-120*		*05/03/2019 16:00*	WG1275623
(S) 4-Bromofluorobenzene	*103*				*77.0-126*		*04/27/2019 18:01*	WG1272804
(S) 4-Bromofluorobenzene	*103*				*77.0-126*		*05/03/2019 16:00*	WG1275623
(S) 1,2-Dichloroethane-d4	*93.7*				*70.0-130*		*04/27/2019 18:01*	WG1272804
(S) 1,2-Dichloroethane-d4	*94.9*				*70.0-130*		*05/03/2019 16:00*	WG1275623

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MW109-042919
Collected date/time: 04/29/19 08:45

SAMPLE RESULTS - 01

L1094387

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.78 U	J J4	1.05	25.0	1	05/03/2019 18:20	WG1275813
Acrylonitrile	U		0.873	5.00	1	05/03/2019 18:20	WG1275813
Benzene	U		0.0896	0.500	1	05/03/2019 18:20	WG1275813
Bromobenzene	U		0.133	0.500	1	05/03/2019 18:20	WG1275813
Bromodichloromethane	U		0.0800	0.500	1	05/03/2019 18:20	WG1275813
Bromochloromethane	U		0.145	0.500	1	05/03/2019 18:20	WG1275813
Bromoform	U		0.186	0.500	1	05/03/2019 18:20	WG1275813
Bromomethane	U		0.157	2.50	1	05/03/2019 18:20	WG1275813
n-Butylbenzene	U		0.143	0.500	1	05/03/2019 18:20	WG1275813
sec-Butylbenzene	U		0.134	0.500	1	05/03/2019 18:20	WG1275813
tert-Butylbenzene	U		0.183	0.500	1	05/03/2019 18:20	WG1275813
Carbon disulfide	U		0.101	0.500	1	05/03/2019 18:20	WG1275813
Carbon tetrachloride	U		0.159	0.500	1	05/03/2019 18:20	WG1275813
Chlorobenzene	U		0.140	0.500	1	05/03/2019 18:20	WG1275813
Chlorodibromomethane	U		0.128	0.500	1	05/03/2019 18:20	WG1275813
Chloroethane	U UJ	J0	0.141	2.50	1	05/03/2019 18:20	WG1275813
Chloroform	U		0.0860	0.500	1	05/03/2019 18:20	WG1275813
Chloromethane	U UJ	J0	0.153	1.25	1	05/03/2019 18:20	WG1275813
2-Chlorotoluene	U		0.111	0.500	1	05/03/2019 18:20	WG1275813
4-Chlorotoluene	U		0.0972	0.500	1	05/03/2019 18:20	WG1275813
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	05/03/2019 18:20	WG1275813
1,2-Dibromoethane	U		0.193	0.500	1	05/03/2019 18:20	WG1275813
Dibromomethane	U		0.117	0.500	1	05/03/2019 18:20	WG1275813
1,2-Dichlorobenzene	U		0.101	0.500	1	05/03/2019 18:20	WG1275813
1,3-Dichlorobenzene	U		0.130	0.500	1	05/03/2019 18:20	WG1275813
1,4-Dichlorobenzene	U		0.121	0.500	1	05/03/2019 18:20	WG1275813
Dichlorodifluoromethane	U		0.127	2.50	1	05/03/2019 18:20	WG1275813
1,1-Dichloroethane	U		0.114	0.500	1	05/03/2019 18:20	WG1275813
1,2-Dichloroethane	U		0.108	0.500	1	05/03/2019 18:20	WG1275813
1,1-Dichloroethene	U		0.188	0.500	1	05/03/2019 18:20	WG1275813
cis-1,2-Dichloroethene	4.78		0.0933	0.500	1	05/03/2019 18:20	WG1275813
trans-1,2-Dichloroethene	U		0.152	0.500	1	05/03/2019 18:20	WG1275813
1,2-Dichloropropane	U		0.190	0.500	1	05/03/2019 18:20	WG1275813
1,1-Dichloropropene	U		0.128	0.500	1	05/03/2019 18:20	WG1275813
1,3-Dichloropropane	U		0.147	1.00	1	05/03/2019 18:20	WG1275813
cis-1,3-Dichloropropene	U		0.0976	0.500	1	05/03/2019 18:20	WG1275813
trans-1,3-Dichloropropene	U		0.222	0.500	1	05/03/2019 18:20	WG1275813
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	05/03/2019 18:20	WG1275813
2,2-Dichloropropane	U		0.0929	0.500	1	05/03/2019 18:20	WG1275813
Di-isopropyl ether	U		0.0924	0.500	1	05/03/2019 18:20	WG1275813
Ethylbenzene	U		0.158	0.500	1	05/03/2019 18:20	WG1275813
Hexachloro-1,3-butadiene	U		0.157	1.00	1	05/03/2019 18:20	WG1275813
2-Hexanone	U		0.757	5.00	1	05/03/2019 18:20	WG1275813
n-Hexane	U		0.305	5.00	1	05/03/2019 18:20	WG1275813
Iodomethane	U		0.377	10.0	1	05/03/2019 18:20	WG1275813
Isopropylbenzene	U		0.126	0.500	1	05/03/2019 18:20	WG1275813
p-Isopropyltoluene	U		0.138	0.500	1	05/03/2019 18:20	WG1275813
2-Butanone (MEK)	U		1.28	5.00	1	05/03/2019 18:20	WG1275813
Methylene Chloride	U		1.07	2.50	1	05/03/2019 18:20	WG1275813
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	05/03/2019 18:20	WG1275813
Methyl tert-butyl ether	U		0.102	0.500	1	05/03/2019 18:20	WG1275813
Naphthalene	U UJ	J0	0.174	2.50	1	05/03/2019 18:20	WG1275813
n-Propylbenzene	U		0.162	0.500	1	05/03/2019 18:20	WG1275813
Styrene	U		0.117	0.500	1	05/03/2019 18:20	WG1275813
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	05/03/2019 18:20	WG1275813
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	05/03/2019 18:20	WG1275813

JC 5/22/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	05/03/2019 18:20	WG1275813
Tetrachloroethene	U			0.199	0.500	1	05/03/2019 18:20	WG1275813
Toluene	U			0.412	0.500	1	05/03/2019 18:20	WG1275813
1,2,3-Trichlorobenzene	U			0.164	0.500	1	05/03/2019 18:20	WG1275813
1,2,4-Trichlorobenzene	U			0.355	0.500	1	05/03/2019 18:20	WG1275813
1,1,1-Trichloroethane	U			0.0940	0.500	1	05/03/2019 18:20	WG1275813
1,1,2-Trichloroethane	U			0.186	0.500	1	05/03/2019 18:20	WG1275813
Trichloroethene	U			0.153	0.500	1	05/03/2019 18:20	WG1275813
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	05/03/2019 18:20	WG1275813
1,2,3-Trichloropropane	U			0.247	2.50	1	05/03/2019 18:20	WG1275813
1,2,4-Trimethylbenzene	U			0.123	0.500	1	05/03/2019 18:20	WG1275813
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	05/03/2019 18:20	WG1275813
1,3,5-Trimethylbenzene	U			0.124	0.500	1	05/03/2019 18:20	WG1275813
Vinyl acetate	U	UJ	J0	0.645	5.00	1	05/03/2019 18:20	WG1275813
Vinyl chloride	3.06	J	J0 J4	0.118	0.500	1	05/03/2019 18:20	WG1275813
Xylenes, Total	U			0.316	1.50	1	05/03/2019 18:20	WG1275813
(S) Toluene-d8	*98.4*				*80.0-120*		*05/03/2019 18:20*	WG1275813
(S) 4-Bromofluorobenzene	*104*				*77.0-126*		*05/03/2019 18:20*	WG1275813
(S) 1,2-Dichloroethane-d4	*95.8*				*70.0-130*		*05/03/2019 18:20*	WG1275813

JC 5/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.41 U	J J4	1.05	25.0	1	05/03/2019 18:41	WG1275813
Acrylonitrile	U		0.873	5.00	1	05/03/2019 18:41	WG1275813
Benzene	3.20		0.0896	0.500	1	05/03/2019 18:41	WG1275813
Bromobenzene	U		0.133	0.500	1	05/03/2019 18:41	WG1275813
Bromodichloromethane	U		0.0800	0.500	1	05/03/2019 18:41	WG1275813
Bromochloromethane	U		0.145	0.500	1	05/03/2019 18:41	WG1275813
Bromoform	U		0.186	0.500	1	05/03/2019 18:41	WG1275813
Bromomethane	U		0.157	2.50	1	05/03/2019 18:41	WG1275813
n-Butylbenzene	U		0.143	0.500	1	05/03/2019 18:41	WG1275813
sec-Butylbenzene	U		0.134	0.500	1	05/03/2019 18:41	WG1275813
tert-Butylbenzene	U		0.183	0.500	1	05/03/2019 18:41	WG1275813
Carbon disulfide	U		0.101	0.500	1	05/03/2019 18:41	WG1275813
Carbon tetrachloride	U		0.159	0.500	1	05/03/2019 18:41	WG1275813
Chlorobenzene	U		0.140	0.500	1	05/03/2019 18:41	WG1275813
Chlorodibromomethane	U		0.128	0.500	1	05/03/2019 18:41	WG1275813
Chloroethane	U UJ	J0	0.141	2.50	1	05/03/2019 18:41	WG1275813
Chloroform	U		0.0860	0.500	1	05/03/2019 18:41	WG1275813
Chloromethane	U UJ	J0	0.153	1.25	1	05/03/2019 18:41	WG1275813
2-Chlorotoluene	U		0.111	0.500	1	05/03/2019 18:41	WG1275813
4-Chlorotoluene	U		0.0972	0.500	1	05/03/2019 18:41	WG1275813
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	05/03/2019 18:41	WG1275813
1,2-Dibromoethane	U		0.193	0.500	1	05/03/2019 18:41	WG1275813
Dibromomethane	U		0.117	0.500	1	05/03/2019 18:41	WG1275813
1,2-Dichlorobenzene	U		0.101	0.500	1	05/03/2019 18:41	WG1275813
1,3-Dichlorobenzene	U		0.130	0.500	1	05/03/2019 18:41	WG1275813
1,4-Dichlorobenzene	U		0.121	0.500	1	05/03/2019 18:41	WG1275813
Dichlorodifluoromethane	U		0.127	2.50	1	05/03/2019 18:41	WG1275813
1,1-Dichloroethane	U		0.114	0.500	1	05/03/2019 18:41	WG1275813
1,2-Dichloroethane	U		0.108	0.500	1	05/03/2019 18:41	WG1275813
1,1-Dichloroethene	3.57		0.188	0.500	1	05/03/2019 18:41	WG1275813
cis-1,2-Dichloroethene	970		1.87	10.0	20	05/05/2019 18:24	WG1276343
trans-1,2-Dichloroethene	3.22		0.152	0.500	1	05/03/2019 18:41	WG1275813
1,2-Dichloropropane	U		0.190	0.500	1	05/03/2019 18:41	WG1275813
1,1-Dichloropropene	U		0.128	0.500	1	05/03/2019 18:41	WG1275813
1,3-Dichloropropane	U		0.147	1.00	1	05/03/2019 18:41	WG1275813
cis-1,3-Dichloropropene	U		0.0976	0.500	1	05/03/2019 18:41	WG1275813
trans-1,3-Dichloropropene	U		0.222	0.500	1	05/03/2019 18:41	WG1275813
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	05/03/2019 18:41	WG1275813
2,2-Dichloropropane	U		0.0929	0.500	1	05/03/2019 18:41	WG1275813
Di-isopropyl ether	U		0.0924	0.500	1	05/03/2019 18:41	WG1275813
Ethylbenzene	U		0.158	0.500	1	05/03/2019 18:41	WG1275813
Hexachloro-1,3-butadiene	U		0.157	1.00	1	05/03/2019 18:41	WG1275813
2-Hexanone	U		0.757	5.00	1	05/03/2019 18:41	WG1275813
n-Hexane	U		0.305	5.00	1	05/03/2019 18:41	WG1275813
Iodomethane	U		0.377	10.0	1	05/03/2019 18:41	WG1275813
Isopropylbenzene	U		0.126	0.500	1	05/03/2019 18:41	WG1275813
p-Isopropyltoluene	U		0.138	0.500	1	05/03/2019 18:41	WG1275813
2-Butanone (MEK)	U		1.28	5.00	1	05/03/2019 18:41	WG1275813
Methylene Chloride	U		1.07	2.50	1	05/03/2019 18:41	WG1275813
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	05/03/2019 18:41	WG1275813
Methyl tert-butyl ether	U		0.102	0.500	1	05/03/2019 18:41	WG1275813
Naphthalene	U UJ	J0	0.174	2.50	1	05/03/2019 18:41	WG1275813
n-Propylbenzene	U		0.162	0.500	1	05/03/2019 18:41	WG1275813
Styrene	U		0.117	0.500	1	05/03/2019 18:41	WG1275813
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	05/03/2019 18:41	WG1275813
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	05/03/2019 18:41	WG1275813

JC 5/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	05/03/2019 18:41	WG1275813
Tetrachloroethene	419		3.98	10.0	20	05/05/2019 18:24	WG1276343
Toluene	U		0.412	0.500	1	05/03/2019 18:41	WG1275813
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/03/2019 18:41	WG1275813
1,2,4-Trichlorobenzene	U		0.355	0.500	1	05/03/2019 18:41	WG1275813
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/03/2019 18:41	WG1275813
1,1,2-Trichloroethane	U		0.186	0.500	1	05/03/2019 18:41	WG1275813
Trichloroethene	171		0.153	0.500	1	05/03/2019 18:41	WG1275813
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	05/03/2019 18:41	WG1275813
1,2,3-Trichloropropane	U		0.247	2.50	1	05/03/2019 18:41	WG1275813
1,2,4-Trimethylbenzene	U		0.123	0.500	1	05/03/2019 18:41	WG1275813
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	05/03/2019 18:41	WG1275813
1,3,5-Trimethylbenzene	U		0.124	0.500	1	05/03/2019 18:41	WG1275813
Vinyl acetate	U	UJ J0	0.645	5.00	1	05/03/2019 18:41	WG1275813
Vinyl chloride	125	J J0 J4	0.118	0.500	1	05/03/2019 18:41	WG1275813
Xylenes, Total	U		0.316	1.50	1	05/03/2019 18:41	WG1275813
(S) Toluene-d8	*99.2*			*80.0-120*		*05/03/2019 18:41*	WG1275813
(S) Toluene-d8	*96.9*			*80.0-120*		*05/05/2019 18:24*	WG1276343
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*05/03/2019 18:41*	WG1275813
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*05/05/2019 18:24*	WG1276343
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*05/03/2019 18:41*	WG1275813
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*05/05/2019 18:24*	WG1276343

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.18	U	J J4	1.05	25.0	1	05/03/2019 19:01	WG1275813
Acrylonitrile	U			0.873	5.00	1	05/03/2019 19:01	WG1275813
Benzene	U			0.0896	0.500	1	05/03/2019 19:01	WG1275813
Bromobenzene	U			0.133	0.500	1	05/03/2019 19:01	WG1275813
Bromodichloromethane	U			0.0800	0.500	1	05/03/2019 19:01	WG1275813
Bromochloromethane	U			0.145	0.500	1	05/03/2019 19:01	WG1275813
Bromoform	U			0.186	0.500	1	05/03/2019 19:01	WG1275813
Bromomethane	U			0.157	2.50	1	05/03/2019 19:01	WG1275813
n-Butylbenzene	U			0.143	0.500	1	05/03/2019 19:01	WG1275813
sec-Butylbenzene	U			0.134	0.500	1	05/03/2019 19:01	WG1275813
tert-Butylbenzene	U			0.183	0.500	1	05/03/2019 19:01	WG1275813
Carbon disulfide	U			0.101	0.500	1	05/03/2019 19:01	WG1275813
Carbon tetrachloride	U			0.159	0.500	1	05/03/2019 19:01	WG1275813
Chlorobenzene	U			0.140	0.500	1	05/03/2019 19:01	WG1275813
Chlorodibromomethane	U			0.128	0.500	1	05/03/2019 19:01	WG1275813
Chloroethane	U	UJ	J0	0.141	2.50	1	05/03/2019 19:01	WG1275813
Chloroform	U			0.0860	0.500	1	05/03/2019 19:01	WG1275813
Chloromethane	U	UJ	J0	0.153	1.25	1	05/03/2019 19:01	WG1275813
2-Chlorotoluene	U			0.111	0.500	1	05/03/2019 19:01	WG1275813
4-Chlorotoluene	U			0.0972	0.500	1	05/03/2019 19:01	WG1275813
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	05/03/2019 19:01	WG1275813
1,2-Dibromoethane	U			0.193	0.500	1	05/03/2019 19:01	WG1275813
Dibromomethane	U			0.117	0.500	1	05/03/2019 19:01	WG1275813
1,2-Dichlorobenzene	U			0.101	0.500	1	05/03/2019 19:01	WG1275813
1,3-Dichlorobenzene	U			0.130	0.500	1	05/03/2019 19:01	WG1275813
1,4-Dichlorobenzene	U			0.121	0.500	1	05/03/2019 19:01	WG1275813
Dichlorodifluoromethane	U			0.127	2.50	1	05/03/2019 19:01	WG1275813
1,1-Dichloroethane	U			0.114	0.500	1	05/03/2019 19:01	WG1275813
1,2-Dichloroethane	U			0.108	0.500	1	05/03/2019 19:01	WG1275813
1,1-Dichloroethene	U			0.188	0.500	1	05/03/2019 19:01	WG1275813
cis-1,2-Dichloroethene	U			0.0933	0.500	1	05/05/2019 18:04	WG1276343
trans-1,2-Dichloroethene	U			0.152	0.500	1	05/03/2019 19:01	WG1275813
1,2-Dichloropropane	U			0.190	0.500	1	05/03/2019 19:01	WG1275813
1,1-Dichloropropene	U			0.128	0.500	1	05/03/2019 19:01	WG1275813
1,3-Dichloropropane	U			0.147	1.00	1	05/03/2019 19:01	WG1275813
cis-1,3-Dichloropropene	U			0.0976	0.500	1	05/03/2019 19:01	WG1275813
trans-1,3-Dichloropropene	U			0.222	0.500	1	05/03/2019 19:01	WG1275813
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	05/03/2019 19:01	WG1275813
2,2-Dichloropropane	U			0.0929	0.500	1	05/03/2019 19:01	WG1275813
Di-isopropyl ether	U			0.0924	0.500	1	05/03/2019 19:01	WG1275813
Ethylbenzene	U			0.158	0.500	1	05/03/2019 19:01	WG1275813
Hexachloro-1,3-butadiene	U			0.157	1.00	1	05/03/2019 19:01	WG1275813
2-Hexanone	U			0.757	5.00	1	05/03/2019 19:01	WG1275813
n-Hexane	U			0.305	5.00	1	05/03/2019 19:01	WG1275813
Iodomethane	U			0.377	10.0	1	05/03/2019 19:01	WG1275813
Isopropylbenzene	U			0.126	0.500	1	05/03/2019 19:01	WG1275813
p-Isopropyltoluene	U			0.138	0.500	1	05/03/2019 19:01	WG1275813
2-Butanone (MEK)	U			1.28	5.00	1	05/03/2019 19:01	WG1275813
Methylene Chloride	U			1.07	2.50	1	05/03/2019 19:01	WG1275813
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	05/03/2019 19:01	WG1275813
Methyl tert-butyl ether	U			0.102	0.500	1	05/03/2019 19:01	WG1275813
Naphthalene	U	UJ	J0	0.174	2.50	1	05/03/2019 19:01	WG1275813
n-Propylbenzene	U			0.162	0.500	1	05/03/2019 19:01	WG1275813
Styrene	U			0.117	0.500	1	05/03/2019 19:01	WG1275813
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	05/03/2019 19:01	WG1275813
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	05/03/2019 19:01	WG1275813

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	05/03/2019 19:01	WG1275813
Tetrachloroethene	U		0.199	0.500	1	05/05/2019 18:04	WG1276343
Toluene	U		0.412	0.500	1	05/03/2019 19:01	WG1275813
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/03/2019 19:01	WG1275813
1,2,4-Trichlorobenzene	U		0.355	0.500	1	05/03/2019 19:01	WG1275813
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/03/2019 19:01	WG1275813
1,1,2-Trichloroethane	U		0.186	0.500	1	05/03/2019 19:01	WG1275813
Trichloroethene	U		0.153	0.500	1	05/03/2019 19:01	WG1275813
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	05/03/2019 19:01	WG1275813
1,2,3-Trichloropropane	U		0.247	2.50	1	05/03/2019 19:01	WG1275813
1,2,4-Trimethylbenzene	U		0.123	0.500	1	05/03/2019 19:01	WG1275813
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	05/03/2019 19:01	WG1275813
1,3,5-Trimethylbenzene	U		0.124	0.500	1	05/03/2019 19:01	WG1275813
Vinyl acetate	U UJ	J0	0.645	5.00	1	05/03/2019 19:01	WG1275813
Vinyl chloride	U UJ	J0 J4	0.118	0.500	1	05/03/2019 19:01	WG1275813
Xylenes, Total	U		0.316	1.50	1	05/03/2019 19:01	WG1275813
(S) Toluene-d8	*98.8*			*80.0-120*		*05/03/2019 19:01*	WG1275813
(S) Toluene-d8	*97.5*			*80.0-120*		*05/05/2019 18:04*	WG1276343
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*05/03/2019 19:01*	WG1275813
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*05/05/2019 18:04*	WG1276343
(S) 1,2-Dichloroethane-d4	*98.5*			*70.0-130*		*05/03/2019 19:01*	WG1275813
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*05/05/2019 18:04*	WG1276343

JC 5/22/19

MW119-042919

Collected date/time: 04/29/19 12:20

SAMPLE RESULTS - 04

L1094387

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	1.90	U	J J4	1.05	25.0	1	05/03/2019 19:21	WG1275813	
Acrylonitrile	U			0.873	5.00	1	05/03/2019 19:21	WG1275813	
Benzene	U			0.0896	0.500	1	05/03/2019 19:21	WG1275813	
Bromobenzene	U			0.133	0.500	1	05/03/2019 19:21	WG1275813	
Bromodichloromethane	U			0.0800	0.500	1	05/03/2019 19:21	WG1275813	
Bromochloromethane	U			0.145	0.500	1	05/03/2019 19:21	WG1275813	
Bromoform	U			0.186	0.500	1	05/03/2019 19:21	WG1275813	
Bromomethane	U			0.157	2.50	1	05/03/2019 19:21	WG1275813	
n-Butylbenzene	U			0.143	0.500	1	05/03/2019 19:21	WG1275813	
sec-Butylbenzene	U			0.134	0.500	1	05/03/2019 19:21	WG1275813	
tert-Butylbenzene	U			0.183	0.500	1	05/03/2019 19:21	WG1275813	
Carbon disulfide	U			0.101	0.500	1	05/03/2019 19:21	WG1275813	
Carbon tetrachloride	U			0.159	0.500	1	05/03/2019 19:21	WG1275813	
Chlorobenzene	U			0.140	0.500	1	05/03/2019 19:21	WG1275813	
Chlorodibromomethane	U			0.128	0.500	1	05/03/2019 19:21	WG1275813	
Chloroethane	U	UJ	J0	0.141	2.50	1	05/03/2019 19:21	WG1275813	
Chloroform	U			0.0860	0.500	1	05/03/2019 19:21	WG1275813	
Chloromethane	U	UJ	J0	0.153	1.25	1	05/03/2019 19:21	WG1275813	
2-Chlorotoluene	U			0.111	0.500	1	05/03/2019 19:21	WG1275813	
4-Chlorotoluene	U			0.0972	0.500	1	05/03/2019 19:21	WG1275813	
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	05/03/2019 19:21	WG1275813	
1,2-Dibromoethane	U			0.193	0.500	1	05/03/2019 19:21	WG1275813	
Dibromomethane	U			0.117	0.500	1	05/03/2019 19:21	WG1275813	
1,2-Dichlorobenzene	U			0.101	0.500	1	05/03/2019 19:21	WG1275813	
1,3-Dichlorobenzene	U			0.130	0.500	1	05/03/2019 19:21	WG1275813	
1,4-Dichlorobenzene	U			0.121	0.500	1	05/03/2019 19:21	WG1275813	
Dichlorodifluoromethane	U			0.127	2.50	1	05/03/2019 19:21	WG1275813	
1,1-Dichloroethane	U			0.114	0.500	1	05/03/2019 19:21	WG1275813	
1,2-Dichloroethane	U			0.108	0.500	1	05/03/2019 19:21	WG1275813	
1,1-Dichloroethene	U			0.188	0.500	1	05/03/2019 19:21	WG1275813	
cis-1,2-Dichloroethene	10.9			0.0933	0.500	1	05/03/2019 19:21	WG1275813	
trans-1,2-Dichloroethene	0.161	J	J	0.152	0.500	1	05/03/2019 19:21	WG1275813	
1,2-Dichloropropane	U			0.190	0.500	1	05/03/2019 19:21	WG1275813	
1,1-Dichloropropene	U			0.128	0.500	1	05/03/2019 19:21	WG1275813	
1,3-Dichloropropane	U			0.147	1.00	1	05/03/2019 19:21	WG1275813	JC 5/22/19
cis-1,3-Dichloropropene	U			0.0976	0.500	1	05/03/2019 19:21	WG1275813	
trans-1,3-Dichloropropene	U			0.222	0.500	1	05/03/2019 19:21	WG1275813	
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	05/03/2019 19:21	WG1275813	
2,2-Dichloropropane	U			0.0929	0.500	1	05/03/2019 19:21	WG1275813	
Di-isopropyl ether	U			0.0924	0.500	1	05/03/2019 19:21	WG1275813	
Ethylbenzene	U			0.158	0.500	1	05/03/2019 19:21	WG1275813	
Hexachloro-1,3-butadiene	U			0.157	1.00	1	05/03/2019 19:21	WG1275813	
2-Hexanone	U			0.757	5.00	1	05/03/2019 19:21	WG1275813	
n-Hexane	U			0.305	5.00	1	05/03/2019 19:21	WG1275813	
Iodomethane	U			0.377	10.0	1	05/03/2019 19:21	WG1275813	
Isopropylbenzene	U			0.126	0.500	1	05/03/2019 19:21	WG1275813	
p-Isopropyltoluene	U			0.138	0.500	1	05/03/2019 19:21	WG1275813	
2-Butanone (MEK)	U			1.28	5.00	1	05/03/2019 19:21	WG1275813	
Methylene Chloride	U			1.07	2.50	1	05/03/2019 19:21	WG1275813	
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	05/03/2019 19:21	WG1275813	
Methyl tert-butyl ether	U			0.102	0.500	1	05/03/2019 19:21	WG1275813	
Naphthalene	U	UJ	J0	0.174	2.50	1	05/03/2019 19:21	WG1275813	
n-Propylbenzene	U			0.162	0.500	1	05/03/2019 19:21	WG1275813	
Styrene	U			0.117	0.500	1	05/03/2019 19:21	WG1275813	
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	05/03/2019 19:21	WG1275813	
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	05/03/2019 19:21	WG1275813	

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	05/03/2019 19:21	WG1275813
Tetrachloroethene	0.224	J	J	0.199	0.500	1	05/03/2019 19:21	WG1275813
Toluene	U			0.412	0.500	1	05/03/2019 19:21	WG1275813
1,2,3-Trichlorobenzene	U			0.164	0.500	1	05/03/2019 19:21	WG1275813
1,2,4-Trichlorobenzene	U			0.355	0.500	1	05/03/2019 19:21	WG1275813
1,1,1-Trichloroethane	U			0.0940	0.500	1	05/03/2019 19:21	WG1275813
1,1,2-Trichloroethane	U			0.186	0.500	1	05/03/2019 19:21	WG1275813
Trichloroethene	1.12			0.153	0.500	1	05/03/2019 19:21	WG1275813
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	05/03/2019 19:21	WG1275813
1,2,3-Trichloropropane	U			0.247	2.50	1	05/03/2019 19:21	WG1275813
1,2,4-Trimethylbenzene	U			0.123	0.500	1	05/03/2019 19:21	WG1275813
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	05/03/2019 19:21	WG1275813
1,3,5-Trimethylbenzene	U			0.124	0.500	1	05/03/2019 19:21	WG1275813
Vinyl acetate	U	UJ	J0	0.645	5.00	1	05/03/2019 19:21	WG1275813
Vinyl chloride	U	UJ	J0 J4	0.118	0.500	1	05/03/2019 19:21	WG1275813
Xylenes, Total	U			0.316	1.50	1	05/03/2019 19:21	WG1275813
(S) Toluene-d8	*98.2*				*80.0-120*		*05/03/2019 19:21*	WG1275813
(S) 4-Bromofluorobenzene	*103*				*77.0-126*		*05/03/2019 19:21*	WG1275813
(S) 1,2-Dichloroethane-d4	*96.1*				*70.0-130*		*05/03/2019 19:21*	WG1275813

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 5/22/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/02/2019 18:28	WG1275218
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*78.0-120*		*05/02/2019 18:28*	WG1275218

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	4.49 U	J J4	1.05	25.0	1	05/03/2019 19:41	WG1275813
Acrylonitrile	U		0.873	5.00	1	05/03/2019 19:41	WG1275813
Benzene	U		0.0896	0.500	1	05/03/2019 19:41	WG1275813
Bromobenzene	U		0.133	0.500	1	05/03/2019 19:41	WG1275813
Bromodichloromethane	U		0.0800	0.500	1	05/03/2019 19:41	WG1275813
Bromochloromethane	U		0.145	0.500	1	05/03/2019 19:41	WG1275813
Bromoform	U		0.186	0.500	1	05/03/2019 19:41	WG1275813
Bromomethane	U		0.157	2.50	1	05/03/2019 19:41	WG1275813
n-Butylbenzene	U		0.143	0.500	1	05/03/2019 19:41	WG1275813
sec-Butylbenzene	U		0.134	0.500	1	05/03/2019 19:41	WG1275813
tert-Butylbenzene	U		0.183	0.500	1	05/03/2019 19:41	WG1275813
Carbon disulfide	U		0.101	0.500	1	05/03/2019 19:41	WG1275813
Carbon tetrachloride	U		0.159	0.500	1	05/03/2019 19:41	WG1275813
Chlorobenzene	U		0.140	0.500	1	05/03/2019 19:41	WG1275813
Chlorodibromomethane	U		0.128	0.500	1	05/03/2019 19:41	WG1275813
Chloroethane	U UJ	J0	0.141	2.50	1	05/03/2019 19:41	WG1275813
Chloroform	U		0.0860	0.500	1	05/03/2019 19:41	WG1275813
Chloromethane	U UJ	J0	0.153	1.25	1	05/03/2019 19:41	WG1275813
2-Chlorotoluene	U		0.111	0.500	1	05/03/2019 19:41	WG1275813
4-Chlorotoluene	U		0.0972	0.500	1	05/03/2019 19:41	WG1275813
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	05/03/2019 19:41	WG1275813
1,2-Dibromoethane	U		0.193	0.500	1	05/03/2019 19:41	WG1275813
Dibromomethane	U		0.117	0.500	1	05/03/2019 19:41	WG1275813
1,2-Dichlorobenzene	U		0.101	0.500	1	05/03/2019 19:41	WG1275813
1,3-Dichlorobenzene	U		0.130	0.500	1	05/03/2019 19:41	WG1275813
1,4-Dichlorobenzene	U		0.121	0.500	1	05/03/2019 19:41	WG1275813
Dichlorodifluoromethane	U		0.127	2.50	1	05/03/2019 19:41	WG1275813
1,1-Dichloroethane	U		0.114	0.500	1	05/03/2019 19:41	WG1275813
1,2-Dichloroethane	U		0.108	0.500	1	05/03/2019 19:41	WG1275813
1,1-Dichloroethene	U		0.188	0.500	1	05/03/2019 19:41	WG1275813
cis-1,2-Dichloroethene	5.39		0.0933	0.500	1	05/03/2019 19:41	WG1275813
trans-1,2-Dichloroethene	U		0.152	0.500	1	05/03/2019 19:41	WG1275813
1,2-Dichloropropane	U		0.190	0.500	1	05/03/2019 19:41	WG1275813
1,1-Dichloropropene	U		0.128	0.500	1	05/03/2019 19:41	WG1275813
1,3-Dichloropropane	U		0.147	1.00	1	05/03/2019 19:41	WG1275813
cis-1,3-Dichloropropene	U		0.0976	0.500	1	05/03/2019 19:41	WG1275813
trans-1,3-Dichloropropene	U		0.222	0.500	1	05/03/2019 19:41	WG1275813
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	05/03/2019 19:41	WG1275813
2,2-Dichloropropane	U		0.0929	0.500	1	05/03/2019 19:41	WG1275813
Di-isopropyl ether	U		0.0924	0.500	1	05/03/2019 19:41	WG1275813
Ethylbenzene	U		0.158	0.500	1	05/03/2019 19:41	WG1275813
Hexachloro-1,3-butadiene	U		0.157	1.00	1	05/03/2019 19:41	WG1275813
2-Hexanone	U		0.757	5.00	1	05/03/2019 19:41	WG1275813
n-Hexane	U		0.305	5.00	1	05/03/2019 19:41	WG1275813
Iodomethane	U		0.377	10.0	1	05/03/2019 19:41	WG1275813
Isopropylbenzene	U		0.126	0.500	1	05/03/2019 19:41	WG1275813
p-Isopropyltoluene	U		0.138	0.500	1	05/03/2019 19:41	WG1275813
2-Butanone (MEK)	U		1.28	5.00	1	05/03/2019 19:41	WG1275813

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	05/03/2019 19:41	WG1275813
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	05/03/2019 19:41	WG1275813
Methyl tert-butyl ether	U			0.102	0.500	1	05/03/2019 19:41	WG1275813
Naphthalene	U	UJ	J0	0.174	2.50	1	05/03/2019 19:41	WG1275813
n-Propylbenzene	U			0.162	0.500	1	05/03/2019 19:41	WG1275813
Styrene	U			0.117	0.500	1	05/03/2019 19:41	WG1275813
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	05/03/2019 19:41	WG1275813
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	05/03/2019 19:41	WG1275813
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	05/03/2019 19:41	WG1275813
Tetrachloroethene	U			0.199	0.500	1	05/03/2019 19:41	WG1275813
Toluene	U			0.412	0.500	1	05/03/2019 19:41	WG1275813
1,2,3-Trichlorobenzene	U			0.164	0.500	1	05/03/2019 19:41	WG1275813
1,2,4-Trichlorobenzene	U			0.355	0.500	1	05/03/2019 19:41	WG1275813
1,1,1-Trichloroethane	U			0.0940	0.500	1	05/03/2019 19:41	WG1275813
1,1,2-Trichloroethane	U			0.186	0.500	1	05/03/2019 19:41	WG1275813
Trichloroethene	U			0.153	0.500	1	05/03/2019 19:41	WG1275813
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	05/03/2019 19:41	WG1275813
1,2,3-Trichloropropane	U			0.247	2.50	1	05/03/2019 19:41	WG1275813
1,2,4-Trimethylbenzene	U			0.123	0.500	1	05/03/2019 19:41	WG1275813
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	05/03/2019 19:41	WG1275813
1,3,5-Trimethylbenzene	U			0.124	0.500	1	05/03/2019 19:41	WG1275813
Vinyl acetate	U	UJ	J0	0.645	5.00	1	05/03/2019 19:41	WG1275813
Vinyl chloride	15.2	J	J0 J4	0.118	0.500	1	05/03/2019 19:41	WG1275813
Xylenes, Total	U			0.316	1.50	1	05/03/2019 19:41	WG1275813
(S) Toluene-d8	*96.6*				*80.0-120*		*05/03/2019 19:41*	WG1275813
(S) 4-Bromofluorobenzene	*101*				*77.0-126*		*05/03/2019 19:41*	WG1275813
(S) 1,2-Dichloroethane-d4	*96.1*				*70.0-130*		*05/03/2019 19:41*	WG1275813

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	293000		2710	20000	1	05/07/2019 19:50	WG1276578

Sample Narrative:

L1094387-06 WG1276578: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	25500		51.9	1000	1	05/02/2019 11:27	WG1274986
Nitrate	U		22.7	100	1	05/02/2019 11:27	WG1274986
Sulfate	12200		77.4	5000	1	05/02/2019 11:27	WG1274986

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1580	~~B~~	102	1000	1	05/02/2019 21:22	WG1275023

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5730		15.0	100	1	05/12/2019 22:10	WG1275858
Manganese	795		0.250	5.00	1	05/12/2019 22:10	WG1275858

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/02/2019 18:52	WG1275218
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*78.0-120*		*05/02/2019 18:52*	WG1275218

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	98.1		0.287	0.678	1	05/09/2019 11:39	WG1277421
Ethane	U		0.296	1.29	1	05/09/2019 11:39	WG1277421
Ethene	U		0.422	1.27	1	05/09/2019 11:39	WG1277421

Volatile Organic Compounds (GC/MS) by Method 8260C

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Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.21	U J J4	1.05	25.0	1	05/03/2019 20:01	WG1275813
Acrylonitrile	U		0.873	5.00	1	05/03/2019 20:01	WG1275813
Benzene	U		0.0896	0.500	1	05/03/2019 20:01	WG1275813
Bromobenzene	U		0.133	0.500	1	05/03/2019 20:01	WG1275813
Bromodichloromethane	U		0.0800	0.500	1	05/03/2019 20:01	WG1275813
Bromochloromethane	U		0.145	0.500	1	05/03/2019 20:01	WG1275813
Bromoform	U		0.186	0.500	1	05/03/2019 20:01	WG1275813
Bromomethane	U		0.157	2.50	1	05/03/2019 20:01	WG1275813
n-Butylbenzene	U		0.143	0.500	1	05/03/2019 20:01	WG1275813
sec-Butylbenzene	U		0.134	0.500	1	05/03/2019 20:01	WG1275813
tert-Butylbenzene	U		0.183	0.500	1	05/03/2019 20:01	WG1275813
Carbon disulfide	U		0.101	0.500	1	05/03/2019 20:01	WG1275813
Carbon tetrachloride	U		0.159	0.500	1	05/03/2019 20:01	WG1275813

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	05/03/2019 20:01	WG1275813
Chlorodibromomethane	U		0.128	0.500	1	05/03/2019 20:01	WG1275813
Chloroethane	U	UJ J0	0.141	2.50	1	05/03/2019 20:01	WG1275813
Chloroform	U		0.0860	0.500	1	05/03/2019 20:01	WG1275813
Chloromethane	U	UJ J0	0.153	1.25	1	05/03/2019 20:01	WG1275813
2-Chlorotoluene	U		0.111	0.500	1	05/03/2019 20:01	WG1275813
4-Chlorotoluene	U		0.0972	0.500	1	05/03/2019 20:01	WG1275813
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	05/03/2019 20:01	WG1275813
1,2-Dibromoethane	U		0.193	0.500	1	05/03/2019 20:01	WG1275813
Dibromomethane	U		0.117	0.500	1	05/03/2019 20:01	WG1275813
1,2-Dichlorobenzene	U		0.101	0.500	1	05/03/2019 20:01	WG1275813
1,3-Dichlorobenzene	U		0.130	0.500	1	05/03/2019 20:01	WG1275813
1,4-Dichlorobenzene	U		0.121	0.500	1	05/03/2019 20:01	WG1275813
Dichlorodifluoromethane	U		0.127	2.50	1	05/03/2019 20:01	WG1275813
1,1-Dichloroethane	U		0.114	0.500	1	05/03/2019 20:01	WG1275813
1,2-Dichloroethane	U		0.108	0.500	1	05/03/2019 20:01	WG1275813
1,1-Dichloroethene	0.517		0.188	0.500	1	05/03/2019 20:01	WG1275813
cis-1,2-Dichloroethene	1.15		0.0933	0.500	1	05/03/2019 20:01	WG1275813
trans-1,2-Dichloroethene	U		0.152	0.500	1	05/03/2019 20:01	WG1275813
1,2-Dichloropropane	U		0.190	0.500	1	05/03/2019 20:01	WG1275813
1,1-Dichloropropene	U		0.128	0.500	1	05/03/2019 20:01	WG1275813
1,3-Dichloropropane	U		0.147	1.00	1	05/03/2019 20:01	WG1275813
cis-1,3-Dichloropropene	U		0.0976	0.500	1	05/03/2019 20:01	WG1275813
trans-1,3-Dichloropropene	U		0.222	0.500	1	05/03/2019 20:01	WG1275813
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	05/03/2019 20:01	WG1275813
2,2-Dichloropropane	U		0.0929	0.500	1	05/03/2019 20:01	WG1275813
Di-isopropyl ether	U		0.0924	0.500	1	05/03/2019 20:01	WG1275813
Ethylbenzene	U		0.158	0.500	1	05/03/2019 20:01	WG1275813
Hexachloro-1,3-butadiene	U		0.157	1.00	1	05/03/2019 20:01	WG1275813
2-Hexanone	U		0.757	5.00	1	05/03/2019 20:01	WG1275813
n-Hexane	U		0.305	5.00	1	05/03/2019 20:01	WG1275813
Iodomethane	U		0.377	10.0	1	05/03/2019 20:01	WG1275813
Isopropylbenzene	U		0.126	0.500	1	05/03/2019 20:01	WG1275813
p-Isopropyltoluene	U		0.138	0.500	1	05/03/2019 20:01	WG1275813
2-Butanone (MEK)	U		1.28	5.00	1	05/03/2019 20:01	WG1275813
Methylene Chloride	U		1.07	2.50	1	05/03/2019 20:01	WG1275813
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	05/03/2019 20:01	WG1275813
Methyl tert-butyl ether	U		0.102	0.500	1	05/03/2019 20:01	WG1275813
Naphthalene	U	UJ J0	0.174	2.50	1	05/03/2019 20:01	WG1275813
n-Propylbenzene	U		0.162	0.500	1	05/03/2019 20:01	WG1275813
Styrene	U		0.117	0.500	1	05/03/2019 20:01	WG1275813
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	05/03/2019 20:01	WG1275813
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	05/03/2019 20:01	WG1275813
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	05/03/2019 20:01	WG1275813
Tetrachloroethene	0.482	J J	0.199	0.500	1	05/03/2019 20:01	WG1275813
Toluene	U		0.412	0.500	1	05/03/2019 20:01	WG1275813
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/03/2019 20:01	WG1275813
1,2,4-Trichlorobenzene	U		0.355	0.500	1	05/03/2019 20:01	WG1275813
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/03/2019 20:01	WG1275813
1,1,2-Trichloroethane	U		0.186	0.500	1	05/03/2019 20:01	WG1275813
Trichloroethene	1.66		0.153	0.500	1	05/03/2019 20:01	WG1275813
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	05/03/2019 20:01	WG1275813
1,2,3-Trichloropropane	U		0.247	2.50	1	05/03/2019 20:01	WG1275813
1,2,4-Trimethylbenzene	U		0.123	0.500	1	05/03/2019 20:01	WG1275813
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	05/03/2019 20:01	WG1275813
1,3,5-Trimethylbenzene	U		0.124	0.500	1	05/03/2019 20:01	WG1275813

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	05/03/2019 20:01	WG1275813
Vinyl chloride	U	UJ	J0 J4	0.118	0.500	1	05/03/2019 20:01	WG1275813
Xylenes, Total	U			0.316	1.50	1	05/03/2019 20:01	WG1275813
(S) Toluene-d8	*99.3*				*80.0-120*		*05/03/2019 20:01*	WG1275813
(S) 4-Bromofluorobenzene	*102*				*77.0-126*		*05/03/2019 20:01*	WG1275813
(S) 1,2-Dichloroethane-d4	*99.5*				*70.0-130*		*05/03/2019 20:01*	WG1275813

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	538000		2710	20000	1	05/07/2019 19:58	WG1276578

Sample Narrative:

L1094387-07 WG1276578: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	41600		51.9	1000	1	05/02/2019 12:24	WG1274986
Nitrate	U		22.7	100	1	05/02/2019 12:24	WG1274986
Sulfate	51800		77.4	5000	1	05/02/2019 12:24	WG1274986

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14200		102	1000	1	05/02/2019 21:58	WG1275023

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2670		15.0	100	1	05/12/2019 22:15	WG1275858
Manganese	1080		0.250	5.00	1	05/12/2019 22:15	WG1275858

Volatile Organic Compounds (GC) by Method NWTPHGX

JC 5/22/19

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	481		31.6	100	1	05/02/2019 19:16	WG1275218
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*78.0-120*		*05/02/2019 19:16*	WG1275218

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	18000		5.74	13.6	20	05/09/2019 16:35	WG1278760
Ethane	122		0.296	1.29	1	05/09/2019 11:43	WG1277421
Ethene	93.2		0.422	1.27	1	05/09/2019 11:43	WG1277421

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	5.66	U J J4	1.05	25.0	1	05/03/2019 20:21	WG1275813
Acrylonitrile	U		0.873	5.00	1	05/03/2019 20:21	WG1275813
Benzene	0.188	J J	0.0896	0.500	1	05/03/2019 20:21	WG1275813
Bromobenzene	U		0.133	0.500	1	05/03/2019 20:21	WG1275813
Bromodichloromethane	U		0.0800	0.500	1	05/03/2019 20:21	WG1275813
Bromochloromethane	U		0.145	0.500	1	05/03/2019 20:21	WG1275813
Bromoform	U		0.186	0.500	1	05/03/2019 20:21	WG1275813
Bromomethane	U		0.157	2.50	1	05/03/2019 20:21	WG1275813
n-Butylbenzene	U		0.143	0.500	1	05/03/2019 20:21	WG1275813
sec-Butylbenzene	U		0.134	0.500	1	05/03/2019 20:21	WG1275813
tert-Butylbenzene	U		0.183	0.500	1	05/03/2019 20:21	WG1275813
Carbon disulfide	U		0.101	0.500	1	05/03/2019 20:21	WG1275813
Carbon tetrachloride	U		0.159	0.500	1	05/03/2019 20:21	WG1275813

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	05/03/2019 20:21	WG1275813
Chlorodibromomethane	U		0.128	0.500	1	05/03/2019 20:21	WG1275813
Chloroethane	4.02 J	J0	0.141	2.50	1	05/03/2019 20:21	WG1275813
Chloroform	U		0.0860	0.500	1	05/03/2019 20:21	WG1275813
Chloromethane	U UJ	J0	0.153	1.25	1	05/03/2019 20:21	WG1275813
2-Chlorotoluene	U		0.111	0.500	1	05/03/2019 20:21	WG1275813
4-Chlorotoluene	U		0.0972	0.500	1	05/03/2019 20:21	WG1275813
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	05/03/2019 20:21	WG1275813
1,2-Dibromoethane	U		0.193	0.500	1	05/03/2019 20:21	WG1275813
Dibromomethane	U		0.117	0.500	1	05/03/2019 20:21	WG1275813
1,2-Dichlorobenzene	U		0.101	0.500	1	05/03/2019 20:21	WG1275813
1,3-Dichlorobenzene	U		0.130	0.500	1	05/03/2019 20:21	WG1275813
1,4-Dichlorobenzene	U		0.121	0.500	1	05/03/2019 20:21	WG1275813
Dichlorodifluoromethane	U		0.127	2.50	1	05/03/2019 20:21	WG1275813
1,1-Dichloroethane	U		0.114	0.500	1	05/03/2019 20:21	WG1275813
1,2-Dichloroethane	U		0.108	0.500	1	05/03/2019 20:21	WG1275813
1,1-Dichloroethene	13.0		0.188	0.500	1	05/03/2019 20:21	WG1275813
cis-1,2-Dichloroethene	1250		1.87	10.0	20	05/05/2019 18:44	WG1276343
trans-1,2-Dichloroethene	14.1		0.152	0.500	1	05/03/2019 20:21	WG1275813
1,2-Dichloropropane	U		0.190	0.500	1	05/03/2019 20:21	WG1275813
1,1-Dichloropropene	U		0.128	0.500	1	05/03/2019 20:21	WG1275813
1,3-Dichloropropane	U		0.147	1.00	1	05/03/2019 20:21	WG1275813
cis-1,3-Dichloropropene	U		0.0976	0.500	1	05/03/2019 20:21	WG1275813
trans-1,3-Dichloropropene	U		0.222	0.500	1	05/03/2019 20:21	WG1275813
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	05/03/2019 20:21	WG1275813
2,2-Dichloropropane	U		0.0929	0.500	1	05/03/2019 20:21	WG1275813
Di-isopropyl ether	U		0.0924	0.500	1	05/03/2019 20:21	WG1275813
Ethylbenzene	U		0.158	0.500	1	05/03/2019 20:21	WG1275813
Hexachloro-1,3-butadiene	U		0.157	1.00	1	05/03/2019 20:21	WG1275813
2-Hexanone	U		0.757	5.00	1	05/03/2019 20:21	WG1275813
n-Hexane	U		0.305	5.00	1	05/03/2019 20:21	WG1275813
Iodomethane	U		0.377	10.0	1	05/03/2019 20:21	WG1275813
Isopropylbenzene	U		0.126	0.500	1	05/03/2019 20:21	WG1275813
p-Isopropyltoluene	U		0.138	0.500	1	05/03/2019 20:21	WG1275813
2-Butanone (MEK)	U		1.28	5.00	1	05/03/2019 20:21	WG1275813
Methylene Chloride	U		1.07	2.50	1	05/03/2019 20:21	WG1275813
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	05/03/2019 20:21	WG1275813
Methyl tert-butyl ether	U		0.102	0.500	1	05/03/2019 20:21	WG1275813
Naphthalene	U UJ	J0	0.174	2.50	1	05/03/2019 20:21	WG1275813
n-Propylbenzene	U		0.162	0.500	1	05/03/2019 20:21	WG1275813
Styrene	U		0.117	0.500	1	05/03/2019 20:21	WG1275813
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	05/03/2019 20:21	WG1275813
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	05/03/2019 20:21	WG1275813
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	05/03/2019 20:21	WG1275813
Tetrachloroethene	U		0.199	0.500	1	05/03/2019 20:21	WG1275813
Toluene	U		0.412	0.500	1	05/03/2019 20:21	WG1275813
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/03/2019 20:21	WG1275813
1,2,4-Trichlorobenzene	U		0.355	0.500	1	05/03/2019 20:21	WG1275813
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/03/2019 20:21	WG1275813
1,1,2-Trichloroethane	U		0.186	0.500	1	05/03/2019 20:21	WG1275813
Trichloroethene	99.9		0.153	0.500	1	05/03/2019 20:21	WG1275813
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	05/03/2019 20:21	WG1275813
1,2,3-Trichloropropane	U		0.247	2.50	1	05/03/2019 20:21	WG1275813
1,2,4-Trimethylbenzene	U		0.123	0.500	1	05/03/2019 20:21	WG1275813
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	05/03/2019 20:21	WG1275813
1,3,5-Trimethylbenzene	U		0.124	0.500	1	05/03/2019 20:21	WG1275813

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	05/03/2019 20:21	WG1275813
Vinyl chloride	374		2.36	10.0	20	05/05/2019 18:44	WG1276343
Xylenes, Total	U		0.316	1.50	1	05/03/2019 20:21	WG1275813
(S) Toluene-d8	*99.0*			*80.0-120*		*05/03/2019 20:21*	WG1275813
(S) Toluene-d8	*102*			*80.0-120*		*05/05/2019 18:44*	WG1276343
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*05/03/2019 20:21*	WG1275813
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*05/05/2019 18:44*	WG1276343
(S) 1,2-Dichloroethane-d4	*94.3*			*70.0-130*		*05/03/2019 20:21*	WG1275813
(S) 1,2-Dichloroethane-d4	*98.0*			*70.0-130*		*05/05/2019 18:44*	WG1276343

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l			ug/l	ug/l		date / time	
Acetone	4.93	U	J J4	1.05	25.0	1	05/03/2019 20:42	WG1275813
Acrylonitrile	U			0.873	5.00	1	05/03/2019 20:42	WG1275813
Benzene	U			0.0896	0.500	1	05/03/2019 20:42	WG1275813
Bromobenzene	U			0.133	0.500	1	05/03/2019 20:42	WG1275813
Bromodichloromethane	U			0.0800	0.500	1	05/03/2019 20:42	WG1275813
Bromochloromethane	U			0.145	0.500	1	05/03/2019 20:42	WG1275813
Bromoform	U			0.186	0.500	1	05/03/2019 20:42	WG1275813
Bromomethane	U			0.157	2.50	1	05/03/2019 20:42	WG1275813
n-Butylbenzene	U			0.143	0.500	1	05/03/2019 20:42	WG1275813
sec-Butylbenzene	U			0.134	0.500	1	05/03/2019 20:42	WG1275813
tert-Butylbenzene	U			0.183	0.500	1	05/03/2019 20:42	WG1275813
Carbon disulfide	U			0.101	0.500	1	05/03/2019 20:42	WG1275813
Carbon tetrachloride	U			0.159	0.500	1	05/03/2019 20:42	WG1275813
Chlorobenzene	U			0.140	0.500	1	05/03/2019 20:42	WG1275813
Chlorodibromomethane	U			0.128	0.500	1	05/03/2019 20:42	WG1275813
Chloroethane	U	UJ	J0	0.141	2.50	1	05/03/2019 20:42	WG1275813
Chloroform	U			0.0860	0.500	1	05/03/2019 20:42	WG1275813
Chloromethane	U	UJ	J0	0.153	1.25	1	05/03/2019 20:42	WG1275813
2-Chlorotoluene	U			0.111	0.500	1	05/03/2019 20:42	WG1275813
4-Chlorotoluene	U			0.0972	0.500	1	05/03/2019 20:42	WG1275813
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	05/03/2019 20:42	WG1275813
1,2-Dibromoethane	U			0.193	0.500	1	05/03/2019 20:42	WG1275813
Dibromomethane	U			0.117	0.500	1	05/03/2019 20:42	WG1275813
1,2-Dichlorobenzene	U			0.101	0.500	1	05/03/2019 20:42	WG1275813
1,3-Dichlorobenzene	U			0.130	0.500	1	05/03/2019 20:42	WG1275813
1,4-Dichlorobenzene	U			0.121	0.500	1	05/03/2019 20:42	WG1275813
Dichlorodifluoromethane	U			0.127	2.50	1	05/03/2019 20:42	WG1275813
1,1-Dichloroethane	U			0.114	0.500	1	05/03/2019 20:42	WG1275813
1,2-Dichloroethane	U			0.108	0.500	1	05/03/2019 20:42	WG1275813
1,1-Dichloroethene	1.26			0.188	0.500	1	05/03/2019 20:42	WG1275813
cis-1,2-Dichloroethene	372			0.466	2.50	5	05/05/2019 19:04	WG1276343
trans-1,2-Dichloroethene	1.22			0.152	0.500	1	05/03/2019 20:42	WG1275813
1,2-Dichloropropane	U			0.190	0.500	1	05/03/2019 20:42	WG1275813
1,1-Dichloropropene	U			0.128	0.500	1	05/03/2019 20:42	WG1275813
1,3-Dichloropropane	U			0.147	1.00	1	05/03/2019 20:42	WG1275813
cis-1,3-Dichloropropene	U			0.0976	0.500	1	05/03/2019 20:42	WG1275813
trans-1,3-Dichloropropene	U			0.222	0.500	1	05/03/2019 20:42	WG1275813
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	05/03/2019 20:42	WG1275813
2,2-Dichloropropane	U			0.0929	0.500	1	05/03/2019 20:42	WG1275813
Di-isopropyl ether	U			0.0924	0.500	1	05/03/2019 20:42	WG1275813
Ethylbenzene	U			0.158	0.500	1	05/03/2019 20:42	WG1275813
Hexachloro-1,3-butadiene	U			0.157	1.00	1	05/03/2019 20:42	WG1275813
2-Hexanone	U			0.757	5.00	1	05/03/2019 20:42	WG1275813
n-Hexane	U			0.305	5.00	1	05/03/2019 20:42	WG1275813
Iodomethane	U			0.377	10.0	1	05/03/2019 20:42	WG1275813
Isopropylbenzene	U			0.126	0.500	1	05/03/2019 20:42	WG1275813
p-Isopropyltoluene	U			0.138	0.500	1	05/03/2019 20:42	WG1275813
2-Butanone (MEK)	U			1.28	5.00	1	05/03/2019 20:42	WG1275813
Methylene Chloride	U			1.07	2.50	1	05/03/2019 20:42	WG1275813
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	05/03/2019 20:42	WG1275813
Methyl tert-butyl ether	U			0.102	0.500	1	05/03/2019 20:42	WG1275813
Naphthalene	U	UJ	J0	0.174	2.50	1	05/03/2019 20:42	WG1275813
n-Propylbenzene	U			0.162	0.500	1	05/03/2019 20:42	WG1275813
Styrene	U			0.117	0.500	1	05/03/2019 20:42	WG1275813
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	05/03/2019 20:42	WG1275813
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	05/03/2019 20:42	WG1275813

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	05/03/2019 20:42	WG1275813
Tetrachloroethene	101		0.199	0.500	1	05/03/2019 20:42	WG1275813
Toluene	U		0.412	0.500	1	05/03/2019 20:42	WG1275813
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/03/2019 20:42	WG1275813
1,2,4-Trichlorobenzene	U		0.355	0.500	1	05/03/2019 20:42	WG1275813
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/03/2019 20:42	WG1275813
1,1,2-Trichloroethane	U		0.186	0.500	1	05/03/2019 20:42	WG1275813
Trichloroethene	166		0.153	0.500	1	05/03/2019 20:42	WG1275813
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	05/03/2019 20:42	WG1275813
1,2,3-Trichloropropane	U		0.247	2.50	1	05/03/2019 20:42	WG1275813
1,2,4-Trimethylbenzene	U		0.123	0.500	1	05/03/2019 20:42	WG1275813
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	05/03/2019 20:42	WG1275813
1,3,5-Trimethylbenzene	U		0.124	0.500	1	05/03/2019 20:42	WG1275813
Vinyl acetate	U	UJ J0	0.645	5.00	1	05/03/2019 20:42	WG1275813
Vinyl chloride	U		0.590	2.50	5	05/05/2019 19:04	WG1276343
Xylenes, Total	U		0.316	1.50	1	05/03/2019 20:42	WG1275813
(S) Toluene-d8	*96.8*			*80.0-120*		*05/03/2019 20:42*	WG1275813
(S) Toluene-d8	*96.5*			*80.0-120*		*05/05/2019 19:04*	WG1276343
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*05/03/2019 20:42*	WG1275813
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*05/05/2019 19:04*	WG1276343
(S) 1,2-Dichloroethane-d4	*98.7*			*70.0-130*		*05/03/2019 20:42*	WG1275813
(S) 1,2-Dichloroethane-d4	*94.8*			*70.0-130*		*05/05/2019 19:04*	WG1276343

Sample Narrative:

L1094387-08 WG1275813, WG1276343: Not all compounds reportable at lower dilution.

L1094387-08 WG1275813, WG1276343: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

JC 5/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/02/2019 17:41	WG1275218
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*78.0-120*		*05/02/2019 17:41*	WG1275218

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.22	J J4	1.05	25.0	1	05/03/2019 17:00	WG1275813
Acrylonitrile	U		0.873	5.00	1	05/03/2019 17:00	WG1275813
Benzene	U		0.0896	0.500	1	05/03/2019 17:00	WG1275813
Bromobenzene	U		0.133	0.500	1	05/03/2019 17:00	WG1275813
Bromodichloromethane	U		0.0800	0.500	1	05/03/2019 17:00	WG1275813
Bromochloromethane	U		0.145	0.500	1	05/03/2019 17:00	WG1275813
Bromoform	U		0.186	0.500	1	05/03/2019 17:00	WG1275813
Bromomethane	U		0.157	2.50	1	05/03/2019 17:00	WG1275813
n-Butylbenzene	U		0.143	0.500	1	05/03/2019 17:00	WG1275813
sec-Butylbenzene	U		0.134	0.500	1	05/03/2019 17:00	WG1275813
tert-Butylbenzene	U		0.183	0.500	1	05/03/2019 17:00	WG1275813
Carbon disulfide	U		0.101	0.500	1	05/03/2019 17:00	WG1275813
Carbon tetrachloride	U		0.159	0.500	1	05/03/2019 17:00	WG1275813
Chlorobenzene	U		0.140	0.500	1	05/03/2019 17:00	WG1275813
Chlorodibromomethane	U		0.128	0.500	1	05/03/2019 17:00	WG1275813
Chloroethane	U	UJ J0	0.141	2.50	1	05/03/2019 17:00	WG1275813
Chloroform	U		0.0860	0.500	1	05/03/2019 17:00	WG1275813
Chloromethane	U	UJ J0	0.153	1.25	1	05/03/2019 17:00	WG1275813
2-Chlorotoluene	U		0.111	0.500	1	05/03/2019 17:00	WG1275813
4-Chlorotoluene	U		0.0972	0.500	1	05/03/2019 17:00	WG1275813
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	05/03/2019 17:00	WG1275813
1,2-Dibromoethane	U		0.193	0.500	1	05/03/2019 17:00	WG1275813
Dibromomethane	U		0.117	0.500	1	05/03/2019 17:00	WG1275813
1,2-Dichlorobenzene	U		0.101	0.500	1	05/03/2019 17:00	WG1275813
1,3-Dichlorobenzene	U		0.130	0.500	1	05/03/2019 17:00	WG1275813
1,4-Dichlorobenzene	U		0.121	0.500	1	05/03/2019 17:00	WG1275813
Dichlorodifluoromethane	U		0.127	2.50	1	05/03/2019 17:00	WG1275813
1,1-Dichloroethane	U		0.114	0.500	1	05/03/2019 17:00	WG1275813
1,2-Dichloroethane	U		0.108	0.500	1	05/03/2019 17:00	WG1275813
1,1-Dichloroethene	U		0.188	0.500	1	05/03/2019 17:00	WG1275813
cis-1,2-Dichloroethene	U		0.0933	0.500	1	05/03/2019 17:00	WG1275813
trans-1,2-Dichloroethene	U		0.152	0.500	1	05/03/2019 17:00	WG1275813
1,2-Dichloropropane	U		0.190	0.500	1	05/03/2019 17:00	WG1275813
1,1-Dichloropropene	U		0.128	0.500	1	05/03/2019 17:00	WG1275813
1,3-Dichloropropane	U		0.147	1.00	1	05/03/2019 17:00	WG1275813
cis-1,3-Dichloropropene	U		0.0976	0.500	1	05/03/2019 17:00	WG1275813
trans-1,3-Dichloropropene	U		0.222	0.500	1	05/03/2019 17:00	WG1275813
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	05/03/2019 17:00	WG1275813
2,2-Dichloropropane	U		0.0929	0.500	1	05/03/2019 17:00	WG1275813
Di-isopropyl ether	U		0.0924	0.500	1	05/03/2019 17:00	WG1275813
Ethylbenzene	U		0.158	0.500	1	05/03/2019 17:00	WG1275813
Hexachloro-1,3-butadiene	U		0.157	1.00	1	05/03/2019 17:00	WG1275813
2-Hexanone	U		0.757	5.00	1	05/03/2019 17:00	WG1275813
n-Hexane	U		0.305	5.00	1	05/03/2019 17:00	WG1275813
Iodomethane	U		0.377	10.0	1	05/03/2019 17:00	WG1275813
Isopropylbenzene	U		0.126	0.500	1	05/03/2019 17:00	WG1275813
p-Isopropyltoluene	U		0.138	0.500	1	05/03/2019 17:00	WG1275813
2-Butanone (MEK)	U		1.28	5.00	1	05/03/2019 17:00	WG1275813

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	05/03/2019 17:00	WG1275813
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	05/03/2019 17:00	WG1275813
Methyl tert-butyl ether	U		0.102	0.500	1	05/03/2019 17:00	WG1275813
Naphthalene	U	UJ J0	0.174	2.50	1	05/03/2019 17:00	WG1275813
n-Propylbenzene	U		0.162	0.500	1	05/03/2019 17:00	WG1275813
Styrene	U		0.117	0.500	1	05/03/2019 17:00	WG1275813
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	05/03/2019 17:00	WG1275813
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	05/03/2019 17:00	WG1275813
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	05/03/2019 17:00	WG1275813
Tetrachloroethene	U		0.199	0.500	1	05/03/2019 17:00	WG1275813
Toluene	U		0.412	0.500	1	05/03/2019 17:00	WG1275813
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/03/2019 17:00	WG1275813
1,2,4-Trichlorobenzene	U		0.355	0.500	1	05/03/2019 17:00	WG1275813
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/03/2019 17:00	WG1275813
1,1,2-Trichloroethane	U		0.186	0.500	1	05/03/2019 17:00	WG1275813
Trichloroethene	U		0.153	0.500	1	05/03/2019 17:00	WG1275813
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	05/03/2019 17:00	WG1275813
1,2,3-Trichloropropane	U		0.247	2.50	1	05/03/2019 17:00	WG1275813
1,2,4-Trimethylbenzene	U		0.123	0.500	1	05/03/2019 17:00	WG1275813
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	05/03/2019 17:00	WG1275813
1,3,5-Trimethylbenzene	U		0.124	0.500	1	05/03/2019 17:00	WG1275813
Vinyl acetate	U	UJ J0	0.645	5.00	1	05/03/2019 17:00	WG1275813
Vinyl chloride	U	UJ J0 J4	0.118	0.500	1	05/03/2019 17:00	WG1275813
Xylenes, Total	U		0.316	1.50	1	05/03/2019 17:00	WG1275813
(S) Toluene-d8	*98.6*			*80.0-120*		*05/03/2019 17:00*	WG1275813
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*05/03/2019 17:00*	WG1275813
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*05/03/2019 17:00*	WG1275813

JC 5/22/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	173000		2710	20000	1	05/08/2019 17:18	WG1276579

Sample Narrative:

L1094414-01 WG1276579: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	5390		51.9	1000	1	05/02/2019 15:46	WG1274986
Nitrate	U		22.7	100	1	05/02/2019 15:46	WG1274986
Sulfate	318 J	J	77.4	5000	1	05/02/2019 15:46	WG1274986

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3750		102	1000	1	05/03/2019 13:44	WG1275310

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	11900		15.0	100	1	05/12/2019 22:21	WG1275858
Manganese	405		0.250	5.00	1	05/12/2019 22:21	WG1275858

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/02/2019 20:52	WG1275218
(S) a,a,a-Trifluorotoluene(FID)	*98.7*			*78.0-120*		*05/02/2019 20:52*	WG1275218

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	255		0.287	0.678	1	05/09/2019 13:12	WG1277421
Ethane	1.07 J	J	0.296	1.29	1	05/09/2019 13:12	WG1277421
Ethene	U		0.422	1.27	1	05/09/2019 13:12	WG1277421

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.75 U	B J J0	1.05	25.0	1	05/04/2019 01:24	WG1275905
Acrylonitrile	U		0.873	5.00	1	05/04/2019 01:24	WG1275905
Benzene	U		0.0896	0.500	1	05/04/2019 01:24	WG1275905
Bromobenzene	U		0.133	0.500	1	05/04/2019 01:24	WG1275905
Bromodichloromethane	U		0.0800	0.500	1	05/04/2019 01:24	WG1275905
Bromochloromethane	U		0.145	0.500	1	05/04/2019 01:24	WG1275905
Bromoform	U		0.186	0.500	1	05/04/2019 01:24	WG1275905
Bromomethane	U UJ	J0	0.157	2.50	1	05/04/2019 01:24	WG1275905
n-Butylbenzene	U		0.143	0.500	1	05/04/2019 01:24	WG1275905
sec-Butylbenzene	U		0.134	0.500	1	05/04/2019 01:24	WG1275905
tert-Butylbenzene	U		0.183	0.500	1	05/04/2019 01:24	WG1275905
Carbon disulfide	0.158 J	J	0.101	0.500	1	05/04/2019 01:24	WG1275905
Carbon tetrachloride	U		0.159	0.500	1	05/04/2019 01:24	WG1275905

JC 5/16/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	05/04/2019 01:24	WG1275905	
Chlorodibromomethane	U		0.128	0.500	1	05/04/2019 01:24	WG1275905	
Chloroethane	U UJ	J0	0.141	2.50	1	05/04/2019 01:24	WG1275905	
Chloroform	U		0.0860	0.500	1	05/04/2019 01:24	WG1275905	
Chloromethane	U		0.153	1.25	1	05/04/2019 01:24	WG1275905	
2-Chlorotoluene	U		0.111	0.500	1	05/04/2019 01:24	WG1275905	
4-Chlorotoluene	U		0.0972	0.500	1	05/04/2019 01:24	WG1275905	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	05/04/2019 01:24	WG1275905	
1,2-Dibromoethane	U		0.193	0.500	1	05/04/2019 01:24	WG1275905	
Dibromomethane	U		0.117	0.500	1	05/04/2019 01:24	WG1275905	
1,2-Dichlorobenzene	U		0.101	0.500	1	05/04/2019 01:24	WG1275905	
1,3-Dichlorobenzene	U		0.130	0.500	1	05/04/2019 01:24	WG1275905	
1,4-Dichlorobenzene	U		0.121	0.500	1	05/04/2019 01:24	WG1275905	
Dichlorodifluoromethane	U		0.127	2.50	1	05/04/2019 01:24	WG1275905	
1,1-Dichloroethane	U		0.114	0.500	1	05/04/2019 01:24	WG1275905	
1,2-Dichloroethane	U		0.108	0.500	1	05/04/2019 01:24	WG1275905	
1,1-Dichloroethene	U		0.188	0.500	1	05/04/2019 01:24	WG1275905	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	05/04/2019 01:24	WG1275905	
trans-1,2-Dichloroethene	U		0.152	0.500	1	05/04/2019 01:24	WG1275905	
1,2-Dichloropropane	U		0.190	0.500	1	05/04/2019 01:24	WG1275905	
1,1-Dichloropropene	U		0.128	0.500	1	05/04/2019 01:24	WG1275905	
1,3-Dichloropropane	U		0.147	1.00	1	05/04/2019 01:24	WG1275905	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	05/04/2019 01:24	WG1275905	
trans-1,3-Dichloropropene	U		0.222	0.500	1	05/04/2019 01:24	WG1275905	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	05/04/2019 01:24	WG1275905	
2,2-Dichloropropane	U		0.0929	0.500	1	05/04/2019 01:24	WG1275905	
Di-isopropyl ether	U		0.0924	0.500	1	05/04/2019 01:24	WG1275905	
Ethylbenzene	U		0.158	0.500	1	05/04/2019 01:24	WG1275905	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	05/04/2019 01:24	WG1275905	
2-Hexanone	U		0.757	5.00	1	05/04/2019 01:24	WG1275905	
n-Hexane	U		0.305	5.00	1	05/04/2019 01:24	WG1275905	
Iodomethane	U		0.377	10.0	1	05/04/2019 01:24	WG1275905	
Isopropylbenzene	U		0.126	0.500	1	05/04/2019 01:24	WG1275905	
p-Isopropyltoluene	U		0.138	0.500	1	05/04/2019 01:24	WG1275905	
2-Butanone (MEK)	U		1.28	5.00	1	05/04/2019 01:24	WG1275905	
Methylene Chloride	U		1.07	2.50	1	05/04/2019 01:24	WG1275905	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	05/04/2019 01:24	WG1275905	
Methyl tert-butyl ether	U		0.102	0.500	1	05/04/2019 01:24	WG1275905	
Naphthalene	U		0.174	2.50	1	05/04/2019 01:24	WG1275905	
n-Propylbenzene	U		0.162	0.500	1	05/04/2019 01:24	WG1275905	
Styrene	U		0.117	0.500	1	05/04/2019 01:24	WG1275905	JC 5/16/19
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	05/04/2019 01:24	WG1275905	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	05/04/2019 01:24	WG1275905	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	05/04/2019 01:24	WG1275905	
Tetrachloroethene	U		0.199	0.500	1	05/04/2019 01:24	WG1275905	
Toluene	U		0.412	0.500	1	05/04/2019 01:24	WG1275905	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/04/2019 01:24	WG1275905	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	05/04/2019 01:24	WG1275905	
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/04/2019 01:24	WG1275905	
1,1,2-Trichloroethane	U		0.186	0.500	1	05/04/2019 01:24	WG1275905	
Trichloroethene	U		0.153	0.500	1	05/04/2019 01:24	WG1275905	
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	05/04/2019 01:24	WG1275905	
1,2,3-Trichloropropane	U		0.247	2.50	1	05/04/2019 01:24	WG1275905	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	05/04/2019 01:24	WG1275905	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	05/04/2019 01:24	WG1275905	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	05/04/2019 01:24	WG1275905	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	05/04/2019 01:24	WG1275905
Vinyl chloride	U UJ	J0	0.118	0.500	1	05/04/2019 01:24	WG1275905
Xylenes, Total	U		0.316	1.50	1	05/04/2019 01:24	WG1275905
(S) Toluene-d8	*98.8*			*80.0-120*		*05/04/2019 01:24*	WG1275905
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*05/04/2019 01:24*	WG1275905
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*		*05/04/2019 01:24*	WG1275905

JC 5/16/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Alkalinity	197000			2710	20000	1	05/08/2019 17:25	WG1276579

Sample Narrative:

L1094414-02 WG1276579: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Chloride	10500			51.9	1000	1	05/02/2019 16:00	WG1274986
Nitrate	U			22.7	100	1	05/02/2019 16:00	WG1274986
Sulfate	1260	J	J	77.4	5000	1	05/02/2019 16:00	WG1274986

Wet Chemistry by Method 9060A

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3790			102	1000	1	05/03/2019 13:56	WG1275310

Metals (ICPMS) by Method 6020B

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Iron	4600			15.0	100	1	05/12/2019 22:26	WG1275858
Manganese	387			0.250	5.00	1	05/12/2019 22:26	WG1275858

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U			31.6	100	1	05/02/2019 21:16	WG1275218
(S) a,a,a-Trifluorotoluene(FID)	*98.5*				*78.0-120*		*05/02/2019 21:16*	WG1275218

Volatile Organic Compounds (GC) by Method RSK175

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Methane	1070			0.287	0.678	1	05/09/2019 13:14	WG1277421
Ethane	4.41			0.296	1.29	1	05/09/2019 13:14	WG1277421
Ethene	U			0.422	1.27	1	05/09/2019 13:14	WG1277421

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Acetone	4.06	U	B J J0	1.05	25.0	1	05/04/2019 01:44	WG1275905
Acrylonitrile	U			0.873	5.00	1	05/04/2019 01:44	WG1275905
Benzene	U			0.0896	0.500	1	05/04/2019 01:44	WG1275905
Bromobenzene	U			0.133	0.500	1	05/04/2019 01:44	WG1275905
Bromodichloromethane	U			0.0800	0.500	1	05/04/2019 01:44	WG1275905
Bromochloromethane	U			0.145	0.500	1	05/04/2019 01:44	WG1275905
Bromoform	U			0.186	0.500	1	05/04/2019 01:44	WG1275905
Bromomethane	U	UJ	J0	0.157	2.50	1	05/04/2019 01:44	WG1275905
n-Butylbenzene	U			0.143	0.500	1	05/04/2019 01:44	WG1275905
sec-Butylbenzene	U			0.134	0.500	1	05/04/2019 01:44	WG1275905
tert-Butylbenzene	U			0.183	0.500	1	05/04/2019 01:44	WG1275905
Carbon disulfide	U			0.101	0.500	1	05/04/2019 01:44	WG1275905
Carbon tetrachloride	U			0.159	0.500	1	05/04/2019 01:44	WG1275905

JC 5/16/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	05/04/2019 01:44	WG1275905
Chlorodibromomethane	U		0.128	0.500	1	05/04/2019 01:44	WG1275905
Chloroethane	U UJ	J0	0.141	2.50	1	05/04/2019 01:44	WG1275905
Chloroform	U		0.0860	0.500	1	05/04/2019 01:44	WG1275905
Chloromethane	U		0.153	1.25	1	05/04/2019 01:44	WG1275905
2-Chlorotoluene	U		0.111	0.500	1	05/04/2019 01:44	WG1275905
4-Chlorotoluene	U		0.0972	0.500	1	05/04/2019 01:44	WG1275905
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	05/04/2019 01:44	WG1275905
1,2-Dibromoethane	U		0.193	0.500	1	05/04/2019 01:44	WG1275905
Dibromomethane	U		0.117	0.500	1	05/04/2019 01:44	WG1275905
1,2-Dichlorobenzene	U		0.101	0.500	1	05/04/2019 01:44	WG1275905
1,3-Dichlorobenzene	U		0.130	0.500	1	05/04/2019 01:44	WG1275905
1,4-Dichlorobenzene	U		0.121	0.500	1	05/04/2019 01:44	WG1275905
Dichlorodifluoromethane	U		0.127	2.50	1	05/04/2019 01:44	WG1275905
1,1-Dichloroethane	U		0.114	0.500	1	05/04/2019 01:44	WG1275905
1,2-Dichloroethane	U		0.108	0.500	1	05/04/2019 01:44	WG1275905
1,1-Dichloroethene	U		0.188	0.500	1	05/04/2019 01:44	WG1275905
cis-1,2-Dichloroethene	2.58		0.0933	0.500	1	05/04/2019 01:44	WG1275905
trans-1,2-Dichloroethene	U		0.152	0.500	1	05/04/2019 01:44	WG1275905
1,2-Dichloropropane	U		0.190	0.500	1	05/04/2019 01:44	WG1275905
1,1-Dichloropropene	U		0.128	0.500	1	05/04/2019 01:44	WG1275905
1,3-Dichloropropane	U		0.147	1.00	1	05/04/2019 01:44	WG1275905
cis-1,3-Dichloropropene	U		0.0976	0.500	1	05/04/2019 01:44	WG1275905
trans-1,3-Dichloropropene	U		0.222	0.500	1	05/04/2019 01:44	WG1275905
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	05/04/2019 01:44	WG1275905
2,2-Dichloropropane	U		0.0929	0.500	1	05/04/2019 01:44	WG1275905
Di-isopropyl ether	U		0.0924	0.500	1	05/04/2019 01:44	WG1275905
Ethylbenzene	U		0.158	0.500	1	05/04/2019 01:44	WG1275905
Hexachloro-1,3-butadiene	U		0.157	1.00	1	05/04/2019 01:44	WG1275905
2-Hexanone	U		0.757	5.00	1	05/04/2019 01:44	WG1275905
n-Hexane	U		0.305	5.00	1	05/04/2019 01:44	WG1275905
Iodomethane	U		0.377	10.0	1	05/04/2019 01:44	WG1275905
Isopropylbenzene	U		0.126	0.500	1	05/04/2019 01:44	WG1275905
p-Isopropyltoluene	U		0.138	0.500	1	05/04/2019 01:44	WG1275905
2-Butanone (MEK)	U		1.28	5.00	1	05/04/2019 01:44	WG1275905
Methylene Chloride	U		1.07	2.50	1	05/04/2019 01:44	WG1275905
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	05/04/2019 01:44	WG1275905
Methyl tert-butyl ether	U		0.102	0.500	1	05/04/2019 01:44	WG1275905
Naphthalene	U		0.174	2.50	1	05/04/2019 01:44	WG1275905
n-Propylbenzene	U		0.162	0.500	1	05/04/2019 01:44	WG1275905
Styrene	U		0.117	0.500	1	05/04/2019 01:44	WG1275905
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	05/04/2019 01:44	WG1275905
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	05/04/2019 01:44	WG1275905
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	05/04/2019 01:44	WG1275905
Tetrachloroethene	U		0.199	0.500	1	05/04/2019 01:44	WG1275905
Toluene	U		0.412	0.500	1	05/04/2019 01:44	WG1275905
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/04/2019 01:44	WG1275905
1,2,4-Trichlorobenzene	U		0.355	0.500	1	05/04/2019 01:44	WG1275905
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/04/2019 01:44	WG1275905
1,1,2-Trichloroethane	U		0.186	0.500	1	05/04/2019 01:44	WG1275905
Trichloroethene	0.513		0.153	0.500	1	05/04/2019 01:44	WG1275905
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	05/04/2019 01:44	WG1275905
1,2,3-Trichloropropane	U		0.247	2.50	1	05/04/2019 01:44	WG1275905
1,2,4-Trimethylbenzene	U		0.123	0.500	1	05/04/2019 01:44	WG1275905
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	05/04/2019 01:44	WG1275905
1,3,5-Trimethylbenzene	U		0.124	0.500	1	05/04/2019 01:44	WG1275905

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	05/04/2019 01:44	WG1275905
Vinyl chloride	U UJ	J0	0.118	0.500	1	05/04/2019 01:44	WG1275905
Xylenes, Total	U		0.316	1.50	1	05/04/2019 01:44	WG1275905
(S) Toluene-d8	*95.9*			*80.0-120*		*05/04/2019 01:44*	WG1275905
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*05/04/2019 01:44*	WG1275905
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*05/04/2019 01:44*	WG1275905

JC 5/16/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	9960	B J	2710	20000	1	05/08/2019 17:51	WG1276579

Sample Narrative:

L1094414-03 WG1276579: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	80.6	J P1	51.9	1000	1	05/02/2019 16:43	WG1274986
Nitrate	U		22.7	100	1	05/02/2019 16:43	WG1274986
Sulfate	U		77.4	5000	1	05/02/2019 16:43	WG1274986

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	299	B J	102	1000	1	05/03/2019 14:22	WG1275310

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	39.8 J	J	15.0	100	1	05/12/2019 22:32	WG1275858
Manganese	2.10 J	J	0.250	5.00	1	05/12/2019 22:32	WG1275858

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/02/2019 21:40	WG1275218
(S) a,a,a-Trifluorotoluene(FID)	*98.5*			*78.0-120*		*05/02/2019 21:40*	WG1275218

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	05/09/2019 13:17	WG1277421
Ethane	U		0.296	1.29	1	05/09/2019 13:17	WG1277421
Ethene	U		0.422	1.27	1	05/09/2019 13:17	WG1277421

JC 5/16/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	5.67	B J J0	1.05	25.0	1	05/03/2019 23:23	WG1275905
Acrylonitrile	U		0.873	5.00	1	05/03/2019 23:23	WG1275905
Benzene	U		0.0896	0.500	1	05/03/2019 23:23	WG1275905
Bromobenzene	U		0.133	0.500	1	05/03/2019 23:23	WG1275905
Bromodichloromethane	0.344 J	J	0.0800	0.500	1	05/03/2019 23:23	WG1275905
Bromochloromethane	U		0.145	0.500	1	05/03/2019 23:23	WG1275905
Bromoform	U		0.186	0.500	1	05/03/2019 23:23	WG1275905
Bromomethane	U UJ	J0	0.157	2.50	1	05/03/2019 23:23	WG1275905
n-Butylbenzene	U		0.143	0.500	1	05/03/2019 23:23	WG1275905
sec-Butylbenzene	U		0.134	0.500	1	05/03/2019 23:23	WG1275905
tert-Butylbenzene	U		0.183	0.500	1	05/03/2019 23:23	WG1275905
Carbon disulfide	U		0.101	0.500	1	05/03/2019 23:23	WG1275905
Carbon tetrachloride	U		0.159	0.500	1	05/03/2019 23:23	WG1275905

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U			0.140	0.500	1	05/03/2019 23:23	WG1275905
Chlorodibromomethane	0.200	J	J	0.128	0.500	1	05/03/2019 23:23	WG1275905
Chloroethane	U	UJ	J0	0.141	2.50	1	05/03/2019 23:23	WG1275905
Chloroform	0.470	J	J	0.0860	0.500	1	05/03/2019 23:23	WG1275905
Chloromethane	U			0.153	1.25	1	05/03/2019 23:23	WG1275905
2-Chlorotoluene	U			0.111	0.500	1	05/03/2019 23:23	WG1275905
4-Chlorotoluene	U			0.0972	0.500	1	05/03/2019 23:23	WG1275905
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	05/03/2019 23:23	WG1275905
1,2-Dibromoethane	U			0.193	0.500	1	05/03/2019 23:23	WG1275905
Dibromomethane	U			0.117	0.500	1	05/03/2019 23:23	WG1275905
1,2-Dichlorobenzene	U			0.101	0.500	1	05/03/2019 23:23	WG1275905
1,3-Dichlorobenzene	U			0.130	0.500	1	05/03/2019 23:23	WG1275905
1,4-Dichlorobenzene	U			0.121	0.500	1	05/03/2019 23:23	WG1275905
Dichlorodifluoromethane	U			0.127	2.50	1	05/03/2019 23:23	WG1275905
1,1-Dichloroethane	U			0.114	0.500	1	05/03/2019 23:23	WG1275905
1,2-Dichloroethane	U			0.108	0.500	1	05/03/2019 23:23	WG1275905
1,1-Dichloroethene	U			0.188	0.500	1	05/03/2019 23:23	WG1275905
cis-1,2-Dichloroethene	U			0.0933	0.500	1	05/03/2019 23:23	WG1275905
trans-1,2-Dichloroethene	U			0.152	0.500	1	05/03/2019 23:23	WG1275905
1,2-Dichloropropane	U			0.190	0.500	1	05/03/2019 23:23	WG1275905
1,1-Dichloropropene	U			0.128	0.500	1	05/03/2019 23:23	WG1275905
1,3-Dichloropropane	U			0.147	1.00	1	05/03/2019 23:23	WG1275905
cis-1,3-Dichloropropene	U			0.0976	0.500	1	05/03/2019 23:23	WG1275905
trans-1,3-Dichloropropene	U			0.222	0.500	1	05/03/2019 23:23	WG1275905
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	05/03/2019 23:23	WG1275905
2,2-Dichloropropane	U			0.0929	0.500	1	05/03/2019 23:23	WG1275905
Di-isopropyl ether	U			0.0924	0.500	1	05/03/2019 23:23	WG1275905
Ethylbenzene	U			0.158	0.500	1	05/03/2019 23:23	WG1275905
Hexachloro-1,3-butadiene	U			0.157	1.00	1	05/03/2019 23:23	WG1275905
2-Hexanone	U			0.757	5.00	1	05/03/2019 23:23	WG1275905
n-Hexane	U			0.305	5.00	1	05/03/2019 23:23	WG1275905
Iodomethane	U			0.377	10.0	1	05/03/2019 23:23	WG1275905
Isopropylbenzene	U			0.126	0.500	1	05/03/2019 23:23	WG1275905
p-Isopropyltoluene	U			0.138	0.500	1	05/03/2019 23:23	WG1275905
2-Butanone (MEK)	U			1.28	5.00	1	05/03/2019 23:23	WG1275905
Methylene Chloride	U			1.07	2.50	1	05/03/2019 23:23	WG1275905
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	05/03/2019 23:23	WG1275905
Methyl tert-butyl ether	U			0.102	0.500	1	05/03/2019 23:23	WG1275905
Naphthalene	U			0.174	2.50	1	05/03/2019 23:23	WG1275905
n-Propylbenzene	U			0.162	0.500	1	05/03/2019 23:23	WG1275905
Styrene	U			0.117	0.500	1	05/03/2019 23:23	WG1275905
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	05/03/2019 23:23	WG1275905
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	05/03/2019 23:23	WG1275905
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	05/03/2019 23:23	WG1275905
Tetrachloroethene	U			0.199	0.500	1	05/03/2019 23:23	WG1275905
Toluene	U			0.412	0.500	1	05/03/2019 23:23	WG1275905
1,2,3-Trichlorobenzene	U			0.164	0.500	1	05/03/2019 23:23	WG1275905
1,2,4-Trichlorobenzene	U			0.355	0.500	1	05/03/2019 23:23	WG1275905
1,1,1-Trichloroethane	U			0.0940	0.500	1	05/03/2019 23:23	WG1275905
1,1,2-Trichloroethane	U			0.186	0.500	1	05/03/2019 23:23	WG1275905
Trichloroethene	U			0.153	0.500	1	05/03/2019 23:23	WG1275905
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	05/03/2019 23:23	WG1275905
1,2,3-Trichloropropane	U			0.247	2.50	1	05/03/2019 23:23	WG1275905
1,2,4-Trimethylbenzene	U			0.123	0.500	1	05/03/2019 23:23	WG1275905
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	05/03/2019 23:23	WG1275905
1,3,5-Trimethylbenzene	U			0.124	0.500	1	05/03/2019 23:23	WG1275905

JC 5/16/19

EQ-050119

Collected date/time: 05/01/19 14:29

SAMPLE RESULTS - 03

L1094414

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U			0.645	5.00	1	05/03/2019 23:23	WG1275905
Vinyl chloride	U	UJ	J0	0.118	0.500	1	05/03/2019 23:23	WG1275905
Xylenes, Total	U			0.316	1.50	1	05/03/2019 23:23	WG1275905
(S) Toluene-d8	*98.7*				*80.0-120*		*05/03/2019 23:23*	WG1275905
(S) 4-Bromofluorobenzene	*106*				*77.0-126*		*05/03/2019 23:23*	WG1275905
(S) 1,2-Dichloroethane-d4	*94.7*				*70.0-130*		*05/03/2019 23:23*	WG1275905

JC 5/16/19

TRIP BLANK-050119

Collected date/time: 05/01/19 00:00

SAMPLE RESULTS - 04

L1094414

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/02/2019 18:04	WG1275218
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*78.0-120*		*05/02/2019 18:04*	WG1275218

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.36	J	1.05	25.0	1	05/07/2019 14:40	WG1277193
Acrylonitrile	U		0.873	5.00	1	05/07/2019 14:40	WG1277193
Benzene	U		0.0896	0.500	1	05/07/2019 14:40	WG1277193
Bromobenzene	U		0.133	0.500	1	05/07/2019 14:40	WG1277193
Bromodichloromethane	U		0.0800	0.500	1	05/07/2019 14:40	WG1277193
Bromochloromethane	U		0.145	0.500	1	05/07/2019 14:40	WG1277193
Bromoform	U		0.186	0.500	1	05/07/2019 14:40	WG1277193
Bromomethane	U	J0	0.157	2.50	1	05/07/2019 14:40	WG1277193
n-Butylbenzene	U		0.143	0.500	1	05/07/2019 14:40	WG1277193
sec-Butylbenzene	U		0.134	0.500	1	05/07/2019 14:40	WG1277193
tert-Butylbenzene	U		0.183	0.500	1	05/07/2019 14:40	WG1277193
Carbon disulfide	U		0.101	0.500	1	05/07/2019 14:40	WG1277193
Carbon tetrachloride	U		0.159	0.500	1	05/07/2019 14:40	WG1277193
Chlorobenzene	U		0.140	0.500	1	05/07/2019 14:40	WG1277193
Chlorodibromomethane	U		0.128	0.500	1	05/07/2019 14:40	WG1277193
Chloroethane	U	J0	0.141	2.50	1	05/07/2019 14:40	WG1277193
Chloroform	U		0.0860	0.500	1	05/07/2019 14:40	WG1277193
Chloromethane	U	J0	0.153	1.25	1	05/07/2019 14:40	WG1277193
2-Chlorotoluene	U		0.111	0.500	1	05/07/2019 14:40	WG1277193
4-Chlorotoluene	U		0.0972	0.500	1	05/07/2019 14:40	WG1277193
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	05/07/2019 14:40	WG1277193
1,2-Dibromoethane	U		0.193	0.500	1	05/07/2019 14:40	WG1277193
Dibromomethane	U		0.117	0.500	1	05/07/2019 14:40	WG1277193
1,2-Dichlorobenzene	U		0.101	0.500	1	05/07/2019 14:40	WG1277193
1,3-Dichlorobenzene	U		0.130	0.500	1	05/07/2019 14:40	WG1277193
1,4-Dichlorobenzene	U		0.121	0.500	1	05/07/2019 14:40	WG1277193
Dichlorodifluoromethane	U		0.127	2.50	1	05/07/2019 14:40	WG1277193
1,1-Dichloroethane	U		0.114	0.500	1	05/07/2019 14:40	WG1277193
1,2-Dichloroethane	U		0.108	0.500	1	05/07/2019 14:40	WG1277193
1,1-Dichloroethene	U		0.188	0.500	1	05/07/2019 14:40	WG1277193
cis-1,2-Dichloroethene	U		0.0933	0.500	1	05/07/2019 14:40	WG1277193
trans-1,2-Dichloroethene	U		0.152	0.500	1	05/07/2019 14:40	WG1277193
1,2-Dichloropropane	U		0.190	0.500	1	05/07/2019 14:40	WG1277193
1,1-Dichloropropene	U		0.128	0.500	1	05/07/2019 14:40	WG1277193
1,3-Dichloropropane	U		0.147	1.00	1	05/07/2019 14:40	WG1277193
cis-1,3-Dichloropropene	U		0.0976	0.500	1	05/07/2019 14:40	WG1277193
trans-1,3-Dichloropropene	U		0.222	0.500	1	05/07/2019 14:40	WG1277193
trans-1,4-Dichloro-2-butene	U	J0	0.257	5.00	1	05/07/2019 14:40	WG1277193
2,2-Dichloropropane	U	J0	0.0929	0.500	1	05/07/2019 14:40	WG1277193
Di-isopropyl ether	U		0.0924	0.500	1	05/07/2019 14:40	WG1277193
Ethylbenzene	U		0.158	0.500	1	05/07/2019 14:40	WG1277193
Hexachloro-1,3-butadiene	U		0.157	1.00	1	05/07/2019 14:40	WG1277193
2-Hexanone	U		0.757	5.00	1	05/07/2019 14:40	WG1277193
n-Hexane	U		0.305	5.00	1	05/07/2019 14:40	WG1277193
Iodomethane	U		0.377	10.0	1	05/07/2019 14:40	WG1277193
Isopropylbenzene	U		0.126	0.500	1	05/07/2019 14:40	WG1277193
p-Isopropyltoluene	U		0.138	0.500	1	05/07/2019 14:40	WG1277193
2-Butanone (MEK)	U		1.28	5.00	1	05/07/2019 14:40	WG1277193

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	05/07/2019 14:40	WG1277193
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	05/07/2019 14:40	WG1277193
Methyl tert-butyl ether	U		0.102	0.500	1	05/07/2019 14:40	WG1277193
Naphthalene	U		0.174	2.50	1	05/07/2019 14:40	WG1277193
n-Propylbenzene	U		0.162	0.500	1	05/07/2019 14:40	WG1277193
Styrene	U		0.117	0.500	1	05/07/2019 14:40	WG1277193
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	05/07/2019 14:40	WG1277193
1,1,2,2-Tetrachloroethane	U	J0	0.130	0.500	1	05/07/2019 14:40	WG1277193
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	05/07/2019 14:40	WG1277193
Tetrachloroethene	U		0.199	0.500	1	05/07/2019 14:40	WG1277193
Toluene	U		0.412	0.500	1	05/07/2019 14:40	WG1277193
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/07/2019 14:40	WG1277193
1,2,4-Trichlorobenzene	U		0.355	0.500	1	05/07/2019 14:40	WG1277193
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/07/2019 14:40	WG1277193
1,1,2-Trichloroethane	U		0.186	0.500	1	05/07/2019 14:40	WG1277193
Trichloroethene	U		0.153	0.500	1	05/07/2019 14:40	WG1277193
Trichlorofluoromethane	U	J4	0.130	2.50	1	05/07/2019 14:40	WG1277193
1,2,3-Trichloropropane	U	J0	0.247	2.50	1	05/07/2019 14:40	WG1277193
1,2,4-Trimethylbenzene	U		0.123	0.500	1	05/07/2019 14:40	WG1277193
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	05/07/2019 14:40	WG1277193
1,3,5-Trimethylbenzene	U		0.124	0.500	1	05/07/2019 14:40	WG1277193
Vinyl acetate	U		0.645	5.00	1	05/07/2019 14:40	WG1277193
Vinyl chloride	U	J0 J4	0.118	0.500	1	05/07/2019 14:40	WG1277193
Xylenes, Total	U		0.316	1.50	1	05/07/2019 14:40	WG1277193
(S) Toluene-d8	*97.5*			*80.0-120*		*05/07/2019 14:40*	WG1277193
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*05/07/2019 14:40*	WG1277193
(S) 1,2-Dichloroethane-d4	*86.1*			*70.0-130*		*05/07/2019 14:40*	WG1277193

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	217000		2710	20000	1	05/10/2019 16:24	WG1278682

Sample Narrative:

L1095349-01 WG1278682: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	20500		51.9	1000	1	05/04/2019 16:56	WG1276067
Nitrate	2010		22.7	100	1	05/04/2019 16:56	WG1276067
Sulfate	66200		77.4	5000	1	05/04/2019 16:56	WG1276067

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1660	~~B~~	102	1000	1	05/06/2019 17:49	WG1276616

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2310 J		75.0	500	5	05/07/2019 22:02	WG1275860
Manganese	384		1.25	25.0	5	05/07/2019 22:02	WG1275860

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	111 J+	~~B~~	31.6	100	1	05/07/2019 17:48	WG1277188
(S) a,a,a-Trifluorotoluene(FID)	*85.3*			*78.0-120*		*05/07/2019 17:48*	WG1277188

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	157 J		0.287	0.678	1	05/09/2019 13:42	WG1277421
Ethane	U		0.296	1.29	1	05/09/2019 13:42	WG1277421
Ethene	U		0.422	1.27	1	05/09/2019 13:42	WG1277421

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	05/08/2019 16:44	WG1277852
Acrylonitrile	U		0.873	5.00	1	05/08/2019 16:44	WG1277852
Benzene	U		0.0896	0.500	1	05/08/2019 16:44	WG1277852
Bromobenzene	U		0.133	0.500	1	05/08/2019 16:44	WG1277852
Bromodichloromethane	U		0.0800	0.500	1	05/08/2019 16:44	WG1277852
Bromochloromethane	U		0.145	0.500	1	05/08/2019 16:44	WG1277852
Bromoform	U		0.186	0.500	1	05/08/2019 16:44	WG1277852
Bromomethane	U		0.157	2.50	1	05/08/2019 16:44	WG1277852
n-Butylbenzene	U		0.143	0.500	1	05/08/2019 16:44	WG1277852
sec-Butylbenzene	U		0.134	0.500	1	05/08/2019 16:44	WG1277852
tert-Butylbenzene	U		0.183	0.500	1	05/08/2019 16:44	WG1277852
Carbon disulfide	U		0.101	0.500	1	05/08/2019 16:44	WG1277852
Carbon tetrachloride	U		0.159	0.500	1	05/08/2019 16:44	WG1277852

JC 5/16/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U			0.140	0.500	1	05/08/2019 16:44	WG1277852
Chlorodibromomethane	U			0.128	0.500	1	05/08/2019 16:44	WG1277852
Chloroethane	U			0.141	2.50	1	05/08/2019 16:44	WG1277852
Chloroform	U			0.0860	0.500	1	05/08/2019 16:44	WG1277852
Chloromethane	U			0.153	1.25	1	05/08/2019 16:44	WG1277852
2-Chlorotoluene	U			0.111	0.500	1	05/08/2019 16:44	WG1277852
4-Chlorotoluene	U			0.0972	0.500	1	05/08/2019 16:44	WG1277852
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	05/08/2019 16:44	WG1277852
1,2-Dibromoethane	U			0.193	0.500	1	05/08/2019 16:44	WG1277852
Dibromomethane	U			0.117	0.500	1	05/08/2019 16:44	WG1277852
1,2-Dichlorobenzene	U			0.101	0.500	1	05/08/2019 16:44	WG1277852
1,3-Dichlorobenzene	U			0.130	0.500	1	05/08/2019 16:44	WG1277852
1,4-Dichlorobenzene	U			0.121	0.500	1	05/08/2019 16:44	WG1277852
Dichlorodifluoromethane	U			0.127	2.50	1	05/08/2019 16:44	WG1277852
1,1-Dichloroethane	1.70			0.114	0.500	1	05/08/2019 16:44	WG1277852
1,2-Dichloroethane	U			0.108	0.500	1	05/08/2019 16:44	WG1277852
1,1-Dichloroethene	0.812			0.188	0.500	1	05/08/2019 16:44	WG1277852
cis-1,2-Dichloroethene	87.2			0.0933	0.500	1	05/08/2019 16:44	WG1277852
trans-1,2-Dichloroethene	0.258	J	J	0.152	0.500	1	05/08/2019 16:44	WG1277852
1,2-Dichloropropane	U			0.190	0.500	1	05/08/2019 16:44	WG1277852
1,1-Dichloropropene	U			0.128	0.500	1	05/08/2019 16:44	WG1277852
1,3-Dichloropropane	U			0.147	1.00	1	05/08/2019 16:44	WG1277852
cis-1,3-Dichloropropene	U			0.0976	0.500	1	05/08/2019 16:44	WG1277852
trans-1,3-Dichloropropene	U			0.222	0.500	1	05/08/2019 16:44	WG1277852
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	05/08/2019 16:44	WG1277852
2,2-Dichloropropane	U			0.0929	0.500	1	05/08/2019 16:44	WG1277852
Di-isopropyl ether	U			0.0924	0.500	1	05/08/2019 16:44	WG1277852
Ethylbenzene	U			0.158	0.500	1	05/08/2019 16:44	WG1277852
Hexachloro-1,3-butadiene	U			0.157	1.00	1	05/08/2019 16:44	WG1277852
2-Hexanone	U			0.757	5.00	1	05/08/2019 16:44	WG1277852
n-Hexane	U			0.305	5.00	1	05/08/2019 16:44	WG1277852
Iodomethane	U			0.377	10.0	1	05/08/2019 16:44	WG1277852
Isopropylbenzene	U			0.126	0.500	1	05/08/2019 16:44	WG1277852
p-Isopropyltoluene	U			0.138	0.500	1	05/08/2019 16:44	WG1277852
2-Butanone (MEK)	U			1.28	5.00	1	05/08/2019 16:44	WG1277852
Methylene Chloride	U			1.07	2.50	1	05/08/2019 16:44	WG1277852
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	05/08/2019 16:44	WG1277852
Methyl tert-butyl ether	U			0.102	0.500	1	05/08/2019 16:44	WG1277852
Naphthalene	U			0.174	2.50	1	05/08/2019 16:44	WG1277852
n-Propylbenzene	U			0.162	0.500	1	05/08/2019 16:44	WG1277852
Styrene	U			0.117	0.500	1	05/08/2019 16:44	WG1277852
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	05/08/2019 16:44	WG1277852
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	05/08/2019 16:44	WG1277852
1,1,2-Trichlorotrifluoroethane	0.477	J	J	0.164	0.500	1	05/08/2019 16:44	WG1277852
Tetrachloroethene	155			0.199	0.500	1	05/08/2019 16:44	WG1277852
Toluene	U			0.412	0.500	1	05/08/2019 16:44	WG1277852
1,2,3-Trichlorobenzene	U			0.164	0.500	1	05/08/2019 16:44	WG1277852
1,2,4-Trichlorobenzene	U			0.355	0.500	1	05/08/2019 16:44	WG1277852
1,1,1-Trichloroethane	0.261	J	J	0.0940	0.500	1	05/08/2019 16:44	WG1277852
1,1,2-Trichloroethane	U			0.186	0.500	1	05/08/2019 16:44	WG1277852
Trichloroethene	46.9			0.153	0.500	1	05/08/2019 16:44	WG1277852
Trichlorofluoromethane	U			0.130	2.50	1	05/08/2019 16:44	WG1277852
1,2,3-Trichloropropane	U			0.247	2.50	1	05/08/2019 16:44	WG1277852
1,2,4-Trimethylbenzene	U			0.123	0.500	1	05/08/2019 16:44	WG1277852
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	05/08/2019 16:44	WG1277852
1,3,5-Trimethylbenzene	U			0.124	0.500	1	05/08/2019 16:44	WG1277852

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	05/08/2019 16:44	WG1277852
Vinyl chloride	1.28		0.118	0.500	1	05/08/2019 16:44	WG1277852
Xylenes, Total	U		0.316	1.50	1	05/08/2019 16:44	WG1277852
(S) Toluene-d8	*92.8*			*80.0-120*		*05/08/2019 16:44*	WG1277852
(S) 4-Bromofluorobenzene	*93.5*			*77.0-126*		*05/08/2019 16:44*	WG1277852
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*05/08/2019 16:44*	WG1277852

JC 5/16/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	217000		2710	20000	1	05/10/2019 16:31	WG1278682

Sample Narrative:

L1095349-02 WG1278682: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	20300		51.9	1000	1	05/04/2019 17:11	WG1276067
Nitrate	1960		22.7	100	1	05/04/2019 17:11	WG1276067
Sulfate	65900		77.4	5000	1	05/04/2019 17:11	WG1276067

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1580	~~B~~	102	1000	1	05/06/2019 18:04	WG1276616

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1120	J ~~O1~~	15.0	100	1	05/07/2019 14:18	WG1275860
Manganese	346		0.500	10.0	2	05/07/2019 21:48	WG1275860
Manganese	321	R ~~O1~~	0.250	5.00	1	05/07/2019 14:18	WG1275860

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	138	J+ ~~B~~	31.6	100	1	05/08/2019 15:33	WG1277738
(S) a,a,a-Trifluorotoluene(FID)	*85.2*			*78.0-120*		*05/08/2019 15:33*	WG1277738

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	115	J	0.287	0.678	1	05/09/2019 13:45	WG1277421
Ethane	U		0.296	1.29	1	05/09/2019 13:45	WG1277421
Ethene	U		0.422	1.27	1	05/09/2019 13:45	WG1277421

JC 5/16/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	05/08/2019 17:03	WG1277852
Acrylonitrile	U		0.873	5.00	1	05/08/2019 17:03	WG1277852
Benzene	U		0.0896	0.500	1	05/08/2019 17:03	WG1277852
Bromobenzene	U		0.133	0.500	1	05/08/2019 17:03	WG1277852
Bromodichloromethane	U		0.0800	0.500	1	05/08/2019 17:03	WG1277852
Bromochloromethane	U		0.145	0.500	1	05/08/2019 17:03	WG1277852
Bromoform	U		0.186	0.500	1	05/08/2019 17:03	WG1277852
Bromomethane	U		0.157	2.50	1	05/08/2019 17:03	WG1277852
n-Butylbenzene	U		0.143	0.500	1	05/08/2019 17:03	WG1277852
sec-Butylbenzene	U		0.134	0.500	1	05/08/2019 17:03	WG1277852
tert-Butylbenzene	U		0.183	0.500	1	05/08/2019 17:03	WG1277852
Carbon disulfide	U		0.101	0.500	1	05/08/2019 17:03	WG1277852

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.159	0.500	1	05/08/2019 17:03	WG1277852
Chlorobenzene	U		0.140	0.500	1	05/08/2019 17:03	WG1277852
Chlorodibromomethane	U		0.128	0.500	1	05/08/2019 17:03	WG1277852
Chloroethane	U		0.141	2.50	1	05/08/2019 17:03	WG1277852
Chloroform	0.142 J	J	0.0860	0.500	1	05/08/2019 17:03	WG1277852
Chloromethane	U		0.153	1.25	1	05/08/2019 17:03	WG1277852
2-Chlorotoluene	U		0.111	0.500	1	05/08/2019 17:03	WG1277852
4-Chlorotoluene	U		0.0972	0.500	1	05/08/2019 17:03	WG1277852
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	05/08/2019 17:03	WG1277852
1,2-Dibromoethane	U		0.193	0.500	1	05/08/2019 17:03	WG1277852
Dibromomethane	U		0.117	0.500	1	05/08/2019 17:03	WG1277852
1,2-Dichlorobenzene	U		0.101	0.500	1	05/08/2019 17:03	WG1277852
1,3-Dichlorobenzene	U		0.130	0.500	1	05/08/2019 17:03	WG1277852
1,4-Dichlorobenzene	U		0.121	0.500	1	05/08/2019 17:03	WG1277852
Dichlorodifluoromethane	U		0.127	2.50	1	05/08/2019 17:03	WG1277852
1,1-Dichloroethane	1.76		0.114	0.500	1	05/08/2019 17:03	WG1277852
1,2-Dichloroethane	U		0.108	0.500	1	05/08/2019 17:03	WG1277852
1,1-Dichloroethene	0.866		0.188	0.500	1	05/08/2019 17:03	WG1277852
cis-1,2-Dichloroethene	89.0		0.0933	0.500	1	05/08/2019 17:03	WG1277852
trans-1,2-Dichloroethene	0.227 J	J	0.152	0.500	1	05/08/2019 17:03	WG1277852
1,2-Dichloropropane	U		0.190	0.500	1	05/08/2019 17:03	WG1277852
1,1-Dichloropropene	U		0.128	0.500	1	05/08/2019 17:03	WG1277852
1,3-Dichloropropane	U		0.147	1.00	1	05/08/2019 17:03	WG1277852
cis-1,3-Dichloropropene	U		0.0976	0.500	1	05/08/2019 17:03	WG1277852
trans-1,3-Dichloropropene	U		0.222	0.500	1	05/08/2019 17:03	WG1277852
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	05/08/2019 17:03	WG1277852
2,2-Dichloropropane	U		0.0929	0.500	1	05/08/2019 17:03	WG1277852
Di-isopropyl ether	U		0.0924	0.500	1	05/08/2019 17:03	WG1277852
Ethylbenzene	U		0.158	0.500	1	05/08/2019 17:03	WG1277852
Hexachloro-1,3-butadiene	U		0.157	1.00	1	05/08/2019 17:03	WG1277852
2-Hexanone	U		0.757	5.00	1	05/08/2019 17:03	WG1277852
n-Hexane	U		0.305	5.00	1	05/08/2019 17:03	WG1277852
Iodomethane	U		0.377	10.0	1	05/08/2019 17:03	WG1277852
Isopropylbenzene	U		0.126	0.500	1	05/08/2019 17:03	WG1277852
p-Isopropyltoluene	U		0.138	0.500	1	05/08/2019 17:03	WG1277852
2-Butanone (MEK)	U		1.28	5.00	1	05/08/2019 17:03	WG1277852
Methylene Chloride	U		1.07	2.50	1	05/08/2019 17:03	WG1277852
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	05/08/2019 17:03	WG1277852
Methyl tert-butyl ether	U		0.102	0.500	1	05/08/2019 17:03	WG1277852
Naphthalene	U		0.174	2.50	1	05/08/2019 17:03	WG1277852
n-Propylbenzene	U		0.162	0.500	1	05/08/2019 17:03	WG1277852
Styrene	U		0.117	0.500	1	05/08/2019 17:03	WG1277852
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	05/08/2019 17:03	WG1277852
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	05/08/2019 17:03	WG1277852
1,1,2-Trichlorotrifluoroethane	0.412 J	J	0.164	0.500	1	05/08/2019 17:03	WG1277852
Tetrachloroethene	182		0.199	0.500	1	05/08/2019 17:03	WG1277852
Toluene	U		0.412	0.500	1	05/08/2019 17:03	WG1277852
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/08/2019 17:03	WG1277852
1,2,4-Trichlorobenzene	U		0.355	0.500	1	05/08/2019 17:03	WG1277852
1,1,1-Trichloroethane	0.290 J	J	0.0940	0.500	1	05/08/2019 17:03	WG1277852
1,1,2-Trichloroethane	U		0.186	0.500	1	05/08/2019 17:03	WG1277852
Trichloroethene	51.1		0.153	0.500	1	05/08/2019 17:03	WG1277852
Trichlorofluoromethane	U		0.130	2.50	1	05/08/2019 17:03	WG1277852
1,2,3-Trichloropropane	U		0.247	2.50	1	05/08/2019 17:03	WG1277852
1,2,4-Trimethylbenzene	U		0.123	0.500	1	05/08/2019 17:03	WG1277852
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	05/08/2019 17:03	WG1277852

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.124	0.500	1	05/08/2019 17:03	WG1277852
Vinyl acetate	U		0.645	5.00	1	05/08/2019 17:03	WG1277852
Vinyl chloride	1.30		0.118	0.500	1	05/08/2019 17:03	WG1277852
Xylenes, Total	U		0.316	1.50	1	05/08/2019 17:03	WG1277852
(S) Toluene-d8	*95.2*			*80.0-120*		*05/08/2019 17:03*	WG1277852
(S) 4-Bromofluorobenzene	*94.1*			*77.0-126*		*05/08/2019 17:03*	WG1277852
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*05/08/2019 17:03*	WG1277852

JC 5/16/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/08/2019 14:45	WG1277738
(S) a,a,a-Trifluorotoluene(FID)	*85.2*			*78.0-120*		*05/08/2019 14:45*	WG1277738

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	05/08/2019 14:27	WG1277852
Acrylonitrile	U		0.873	5.00	1	05/08/2019 14:27	WG1277852
Benzene	U		0.0896	0.500	1	05/08/2019 14:27	WG1277852
Bromobenzene	U		0.133	0.500	1	05/08/2019 14:27	WG1277852
Bromodichloromethane	U		0.0800	0.500	1	05/08/2019 14:27	WG1277852
Bromochloromethane	U		0.145	0.500	1	05/08/2019 14:27	WG1277852
Bromoform	U		0.186	0.500	1	05/08/2019 14:27	WG1277852
Bromomethane	U		0.157	2.50	1	05/08/2019 14:27	WG1277852
n-Butylbenzene	U		0.143	0.500	1	05/08/2019 14:27	WG1277852
sec-Butylbenzene	U		0.134	0.500	1	05/08/2019 14:27	WG1277852
tert-Butylbenzene	U		0.183	0.500	1	05/08/2019 14:27	WG1277852
Carbon disulfide	U		0.101	0.500	1	05/08/2019 14:27	WG1277852
Carbon tetrachloride	U		0.159	0.500	1	05/08/2019 14:27	WG1277852
Chlorobenzene	U		0.140	0.500	1	05/08/2019 14:27	WG1277852
Chlorodibromomethane	U		0.128	0.500	1	05/08/2019 14:27	WG1277852
Chloroethane	U		0.141	2.50	1	05/08/2019 14:27	WG1277852
Chloroform	U		0.0860	0.500	1	05/08/2019 14:27	WG1277852
Chloromethane	U		0.153	1.25	1	05/08/2019 14:27	WG1277852
2-Chlorotoluene	U		0.111	0.500	1	05/08/2019 14:27	WG1277852
4-Chlorotoluene	U		0.0972	0.500	1	05/08/2019 14:27	WG1277852
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	05/08/2019 14:27	WG1277852
1,2-Dibromoethane	U		0.193	0.500	1	05/08/2019 14:27	WG1277852
Dibromomethane	U		0.117	0.500	1	05/08/2019 14:27	WG1277852
1,2-Dichlorobenzene	U		0.101	0.500	1	05/08/2019 14:27	WG1277852
1,3-Dichlorobenzene	U		0.130	0.500	1	05/08/2019 14:27	WG1277852
1,4-Dichlorobenzene	U		0.121	0.500	1	05/08/2019 14:27	WG1277852
Dichlorodifluoromethane	U		0.127	2.50	1	05/08/2019 14:27	WG1277852
1,1-Dichloroethane	U		0.114	0.500	1	05/08/2019 14:27	WG1277852
1,2-Dichloroethane	U		0.108	0.500	1	05/08/2019 14:27	WG1277852
1,1-Dichloroethene	U		0.188	0.500	1	05/08/2019 14:27	WG1277852
cis-1,2-Dichloroethene	U		0.0933	0.500	1	05/08/2019 14:27	WG1277852
trans-1,2-Dichloroethene	U		0.152	0.500	1	05/08/2019 14:27	WG1277852
1,2-Dichloropropane	U		0.190	0.500	1	05/08/2019 14:27	WG1277852
1,1-Dichloropropene	U		0.128	0.500	1	05/08/2019 14:27	WG1277852
1,3-Dichloropropane	U		0.147	1.00	1	05/08/2019 14:27	WG1277852
cis-1,3-Dichloropropene	U		0.0976	0.500	1	05/08/2019 14:27	WG1277852
trans-1,3-Dichloropropene	U		0.222	0.500	1	05/08/2019 14:27	WG1277852
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	05/08/2019 14:27	WG1277852
2,2-Dichloropropane	U		0.0929	0.500	1	05/08/2019 14:27	WG1277852
Di-isopropyl ether	U		0.0924	0.500	1	05/08/2019 14:27	WG1277852
Ethylbenzene	U		0.158	0.500	1	05/08/2019 14:27	WG1277852
Hexachloro-1,3-butadiene	U		0.157	1.00	1	05/08/2019 14:27	WG1277852
2-Hexanone	U		0.757	5.00	1	05/08/2019 14:27	WG1277852
n-Hexane	U		0.305	5.00	1	05/08/2019 14:27	WG1277852
Iodomethane	U		0.377	10.0	1	05/08/2019 14:27	WG1277852
Isopropylbenzene	U		0.126	0.500	1	05/08/2019 14:27	WG1277852
p-Isopropyltoluene	U		0.138	0.500	1	05/08/2019 14:27	WG1277852
2-Butanone (MEK)	U		1.28	5.00	1	05/08/2019 14:27	WG1277852

JC 5/16/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	05/08/2019 14:27	WG1277852
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	05/08/2019 14:27	WG1277852
Methyl tert-butyl ether	U		0.102	0.500	1	05/08/2019 14:27	WG1277852
Naphthalene	U		0.174	2.50	1	05/08/2019 14:27	WG1277852
n-Propylbenzene	U		0.162	0.500	1	05/08/2019 14:27	WG1277852
Styrene	U		0.117	0.500	1	05/08/2019 14:27	WG1277852
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	05/08/2019 14:27	WG1277852
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	05/08/2019 14:27	WG1277852
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	05/08/2019 14:27	WG1277852
Tetrachloroethene	U		0.199	0.500	1	05/08/2019 14:27	WG1277852
Toluene	U		0.412	0.500	1	05/08/2019 14:27	WG1277852
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/08/2019 14:27	WG1277852
1,2,4-Trichlorobenzene	U		0.355	0.500	1	05/08/2019 14:27	WG1277852
1,1,1-Trichloroethane	U		0.0940	0.500	1	05/08/2019 14:27	WG1277852
1,1,2-Trichloroethane	U		0.186	0.500	1	05/08/2019 14:27	WG1277852
Trichloroethene	U		0.153	0.500	1	05/08/2019 14:27	WG1277852
Trichlorofluoromethane	U		0.130	2.50	1	05/08/2019 14:27	WG1277852
1,2,3-Trichloropropane	U		0.247	2.50	1	05/08/2019 14:27	WG1277852
1,2,4-Trimethylbenzene	U		0.123	0.500	1	05/08/2019 14:27	WG1277852
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	05/08/2019 14:27	WG1277852
1,3,5-Trimethylbenzene	U		0.124	0.500	1	05/08/2019 14:27	WG1277852
Vinyl acetate	U		0.645	5.00	1	05/08/2019 14:27	WG1277852
Vinyl chloride	U		0.118	0.500	1	05/08/2019 14:27	WG1277852
Xylenes, Total	U		0.316	1.50	1	05/08/2019 14:27	WG1277852
(S) Toluene-d8	*94.0*			*80.0-120*		*05/08/2019 14:27*	WG1277852
(S) 4-Bromofluorobenzene	*94.3*			*77.0-126*		*05/08/2019 14:27*	WG1277852
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*05/08/2019 14:27*	WG1277852

JC 5/16/19

MEMORANDUM

TO: Project File **DATE:** August 11, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.601

TASK: EIM Data Validation Level EPA2A for July and August 2019 – Groundwater and Soil Vapor Samples

LAB: Pace Sample Delivery Groups (SDGs): L1119161, L1119171, L1119726, L1120206, L1120698, L1121210, L1121576, L1121848, L1122507, and L1124853

Forty-nine (49) groundwater samples (including three field duplicates), three (3) soil vapor samples (including one field duplicate), two (2) equipment blanks, and nine (9) trip blanks were collected as Round 3 Quarterly Monitoring sampling event at the Former American Linen Supply Site, in Seattle, Washington, between July 15-25, and August 1, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- VOCs by USEPA Method TO-15;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (Chloride, Nitrate, and Sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B.

Samples were collected between July 15-25 and August 1, 2019 and results are reported in ten Pace SDGs (L1119161, L1119171, L1119726, L1120206, L1120698, L1121210, L1121576, L1121848, L1122507, and L1124853). The quality assurance review of the sample data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with PACE control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for

Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested with the following discussions:

- SDG L1119161: Review of the chain of custody (COC) shows date of collection missing from samples MW112-071619, GEI-1-071619, and GEI-2-071619. PES confirmed that the date of collection was July 16, 2019.
- SDG L1119171: Review of the COC indicates MW103-071519. Pace identified the sample as MW-103-071519. Review of COC shows that the date that the laboratory received the cooler was recorded as 7/17 but date of receipt should read 7/17/2019.
- SDG L1119726: Review of COC shows that the date that the laboratory received the cooler was recorded as 7/18 but date of receipt should read 7/18/2019.
- SDG L1120206: Review of the COC indicates MW 126-071819. Pace identified the sample as MW-126-071819.
- SDG L1120698: Review of the COC shows MW125-071819 and MW106-071919. Pace identified the samples as MW-125-071819 and MW-106-071919. The associated trip blank sample is included in the COC remarks section.
- SDG L1121210: Review of the COC shows MW104-072219 and MW107-072219. Pace identified the samples as MW-104-072219 and MW-107-072219. Date of collection was not recorded for samples MW-148-072219, MW-153-072219, MW-157-072219, MW-156-072219, and MW-107-072219. PES confirmed that samples were collected on July 22, 2019.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:

All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

USEPA Method TO-15:
The analyses for VOCs by Method TO-15 were performed within the 30-day recommended holding time limit for the air samples collected in Summa canisters. All holding time criteria are met.

NWTPH-Gx Method:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:
All samples were analyzed within the USEPA recommended holding time for iron and manganese of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDGs L1119161 and L1119171 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues are noted by Pace for trans-1,4-dichloro-2-butene and trichlorofluoromethane (CFC-11) associated with analytical batch WG1313581 (analyzed on July 18, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

- SDGs L1119726 and L1120206 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues are noted by Pace for acetone, trans-1,4-dichloro-2-butene, iodomethane (methyl iodide), and naphthalene associated with analytical batch WG1314770 (analyzed on July 20, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

- SDG L1120698 - *USEPA Method 8260C:* CCV issues are noted by Pace for multiple compounds associated with analytical batch WG1315893 (analyzed on July 23, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

- SDG L1121210 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues are noted by Pace for trichlorofluoromethane associated with analytical batch WG1317389 (analyzed on July 25, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

- SDG L1121576 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues are noted by Pace for trichlorofluoromethane associated with analytical batch WG1317389 (analyzed on July 25, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

- SDG L1124853 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues are noted by Pace for trans-1,4-dichloro-2-butene and trichlorofluoromethane associated with analytical batch WG1323449 (analyzed on August 6, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (UJ/J).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1119161 - Analytical batch WG1313581: A low level of acetone is detected in the method blank. A low level of acetone is also detected in the trip blank. **Acetone detections in samples FMW-129-071619, MW112-071619, GEI-1-071619, and GEI-2-071619 are detected below the RDL are qualified (U) as non-detects due to trip, and/or method blank contamination.** A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples.

- SDG L1119171 - Analytical batch WG1313581: A low level of acetone is detected in the method blank. **Acetone detections in samples MW-110-071519, MW-111-071519, MW-103-071519, MW-109-071519, MW-154-071519, MW-108-071519, MW-9-071619, MW-120-071619, and R-MW5-071619 are detected below the RDL are qualified (U) as non-detects due to method blank contamination.** A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples.

- SDG L1119171 - Analytical batch WG1313748: Low levels of gasoline are detected (below the RDL) in the trip and method blanks. **Associated low level gasoline detection, below the RDL, in samples MW-154-071519 and MW-9-071619, are qualified as not detected (U).**

- SDGs L1121210 - Analytical batch WG1317007: A low level of tetrachloroethene (PCE) is detected in the method blank. Tetrachloroethene was detected, below the RDL, in the associated trip blank. No action is taken other than to note this.

- SDG L1121576 - Analytical batch WG1317007: A low level of PCE is detected in the method blank. PCE was detected, below the RDL, in the trip blank sample. No action is taken on this basis.

- SDGs L1121210 and L1121576 - Analytical batch WG1317007: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples or the trip blank associated with SDG L1121576.

- SDG L1121210 - Analytical batch WG1317370: A low level of PCE is detected in the method blank. **Tetrachloroethene was detected, below the RDL, in sample MW-148-072219 and is qualified (U) as non-detect due to method blank contamination.**

- SDG L1121576 – Analytical batch WG1317389: A low level of tetrachloroethene is detected in the trip and method blanks. Tetrachloroethene was detected in sample MW-155-072319 but the result is significantly greater than the method blank detection. No action was taken.

- SDG L1124853 - Analytical batch WG1323449: Low levels of hexachloro-1,3-butadiene and 1,2,4-trimethylbenzene are detected in the method blank. No action was necessary since these compounds are not detected in the associated sample.

USEPA Method TO-15:
A laboratory method blank is included with the analytical batch per method requirement. The target analytes were not detected in the method blank at or above the RDLs with the following exceptions:

- SDG L1121848 – Analytical batch WG1317302: Multiple compounds are detected at low levels (below the RDLs) in the soil vapor method blank. Discussion and exception are as follows:
    - Sample SV-02-071919 result for toluene was detected is slightly greater than the blank detection. Sample dilution (2X) was evaluated against the blank

contamination. No action was taken for the toluene result as bias from the contamination is considered negligible.

  - Sample SV-01-071919 results for methylene chloride, propene, and toluene are laboratory qualified (B) to indicate method blank contamination. **Sample SV-01-071919 results for methylene chloride (a common laboratory contaminant), propene, and toluene are estimated and qualified (J+) due to low levels of blank contamination.** Sample dilution (2X) was evaluated against the blank contamination. A field duplicate sample SV-01-071919-D was also collected. Refer to the Field Duplicate section for further discussion regarding precision data.

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1119161 - Analytical batch WG1313748: Gasoline is detected at a low level (below the RDL) in the method blank. **Gasoline detection in sample MW112-071619 is detected below the RDL and qualified (U) as non-detect due to trip, and/or method blank contamination.**

- SDG L1119171 - Analytical batch WG1313748: Gasoline is detected at a low level (below the RDL) in the method blank. **Gasoline detection in samples MW-154-071519 and MW-9-071619 are detected below the RDL and qualified (U) as non-detect due to method blank contamination.** No action is taken with sample MW-120-071619 since the gasoline detection exceeds the RDL.

- SDG L1119726 - Analytical batch WG1313748: Gasoline is detected at a low level (below the RDL) in the method blank. **Gasoline detection in samples MW105-071719 are detected below the RDL and qualified (U) as non-detect due to method blank contamination.** No action is taken on this basis for samples MW113-071719 and BB-8-071719 since the gasoline detections exceed the RDL.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020B and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL. General chemistry and metal blank detections are shown below:

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1119161	WG1315264	SM2320B	Alkalinity as CaCO3, Total	3000	J	20000	ug/L	NO
L1119161	WG1312677	9056A	Chloride	289	J	1000	ug/L	NO
L1119161	WG1313436	6020B	Iron	16.9	J	100	ug/L	NO
L1119161	WG1312677	9056A	Sulfate	312	J	5000	ug/L	NO
L1119161	WG1312820	9060A	TOC	284	J	1000	ug/L	NO
L1119171	WG1315264	SM2320B	Alkalinity as CaCO3, Total	3000	J	20000	ug/L	NO
L1119171	WG1312677	9056A	Chloride	289	J	1000	ug/L	NO
L1119171	WG1312677	9056A	Sulfate	312	J	5000	ug/L	NO
L1119171	WG1313391	9060A	TOC	117	J	1000	ug/L	NO
L1119726	WG1315387	SM2320B	Alkalinity as CaCO3, Total	2900	J	20000	ug/L	NO
L1119726	WG1313370	9056A	Chloride	294	J	1000	ug/L	NO
L1119726	WG1314078	9060A	TOC	212	J	1000	ug/L	NO
L1120206	WG1315970	SM2320B	Alkalinity as CaCO3, Total	3140	J	20000	ug/L	NO
L1120206	WG1314861	6020B	Iron	25.6	J	100	ug/L	NO
L1120206	WG1315213	9060A	TOC	231	J	1000	ug/L	NO
L1120698	WG1317440	SM2320B	Alkalinity as CaCO3, Total	2810	J	20000	ug/L	NO
L1120698	WG1314733	9056A	Sulfate	88.4	J	5000	ug/L	NO
L1120698	WG1315948	9060A	TOC	190	J	1000	ug/L	NO
L1121210	WG1317446	SM2320B	Alkalinity as CaCO3, Total	2860	J	20000	ug/L	NO
L1121210	WG1315944	9056A	Chloride	277	J	1000	ug/L	NO
L1121210	WG1315948	9060A	TOC	190	J	1000	ug/L	NO
L1121210	WG1316685	9060A	TOC	363	J	1000	ug/L	NO
L1121576	WG1317887	SM2320B	Alkalinity as CaCO3, Total	3080	J	20000	ug/L	NO
L1121576	WG1317639	9060A	TOC	195	J	1000	ug/L	NO
L1122507	WG1319145	SM2320B	Alkalinity as CaCO3, Total	3540	J	20000	ug/L	NO
L1122507	WG1318499	9060A	TOC	235	J	1000	ug/L	NO

Trip Blank Results

USEPA Method 8260C and NWTPH-Gx:
Nine trip blanks were collected and submitted for analysis. The target analytes were not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1119161 - Analytical batch WG1313748: Low levels of gasoline are detected (below the RDL) in the trip and method blanks. **The associated low level gasoline detection, below the RDL, in sample MW112-071619 is qualified as not detected (U).** Low levels of acetone are detected (below the RDL) in the trip and method blanks. **Acetone detections in samples FMW-129-071619, MW112-071619, GEI-1-071619, and GEI-2-071619 are detected below the RDL are qualified (U) as non-detects due to trip, and/or method blank contamination.**

- SDG L1119171 - Analytical batch WG1313748: Low levels of gasoline are detected (below the RDL) in the trip and method blanks. **Associated low level gasoline**

detections, below the RDL, in samples MW-154-071519 and MW-9-071619, are qualified as not detected (U).

- SDG L1121210 - Analytical batches WG1317007 (Trip Blank), WG1320771 (MW-104-072219), and WG1317370 (MW-148-072219): A low level of tetrachloroethene is detected (above the RDL) in the trip blank. Pace's sample narrative indicates that the PCE detection in the trip blank is likely due to instrument carryover. Tetrachloroethene was also detected above the RDL in two of the associated method blanks (WG1317007 and WG1317370). **A low level tetrachloroethene detection (below the RDL) in sample MW-148-072219 is qualified as not detected (U) due to method blank contamination.** No action is taken for sample MW-104-072219 because PCE was reanalyzed on July 31, 2019 with analytical batch WG1320771. No action was taken with sample MW-156-072219 since the detection is significantly greater than the RDL.

- SDG L1121576 – Analytical batch WG1317007 (Trip): Low levels of acetone and tetrachloroethene are detected in the trip blank. Pace's sample narrative indicates that the PCE detection in the trip blank is likely due to instrument carryover. PCE was also detected in the method blank. PCE was detected in sample MW-155-072319 but no action is required since the result associated with a different analytical batch (WG1317389) and is significantly greater than the trip/method blank detections. No action was taken on this basis. **Associated acetone detections, below the RDL, in sample MW-160-072319 and MW-155-072319, are qualified as not detected (U).**

- SDG L1124853 - Analytical batch WG1323449: Low levels of acetone and hexachloro-1,3-butadiene are detected in the trip blank. No action was necessary for hexachloro-1,3-butadiene as it was not detected in the associated sample and is laboratory qualified (B) to indicate method blank contamination. **The associated acetone detection, below the RDL, in sample MW127-080119, is qualified as not detected (U).**

- SDG L1124853 - Analytical batch WG1325194: A low level of gasoline is detected (below the RDL) in the method blank. No action was necessary since gasoline was not detected in the associated sample or trip blank.

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:
Two equipment blanks (EQ-071919 and EQ-072519) were collected and analyzed for VOCs, gasoline, dissolved gases (methane, ethane, and ethene), metals (iron and manganese), wet chemistry parameters (alkalinity, chloride, nitrate, sulfate, and TOC). Review of the equipment blank results are as follows:

- SDG L1120698: An equipment blank sample (EQ-071919) was collected on July 19, 2019 from the bladder pump associated with samples MW-158A-071919, MW-146-071919, field duplicate sample MW-913-071919, MW-143-071919, and MW-106-071919. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

    - Low levels of acetone and chloroform (both below the RDL) are detected in the equipment blank. No action was needed for chloroform as it was not detected in the associated samples. **Sample MW-158A-071919, MW-143-071919, and MW-106-071919 acetone detections are less than the RDL and are qualified (U) as not detected due to equipment blank contamination.**

    - Methane and ethane were detected in the equipment blank and associated samples as shown below:

Sample ID	Methane 0.678 ug/L RDL	Ethane 1.29 ug/L RDL	Ethene 1.27 ug/L RDL
EQ-071919	**218**	**1.29 U**	**14.1**
MW-158A-071919	222	1.29 U	5.86
MW-146-071919	6490	1.29 U	463
MW-143-071919	4790	96.5	14.4
MW-106-071919	39.5	1.29 U	1.27 U

    - Methane and ethane qualifiers are assigned as follows:

        - **Sample MW-158A-071919 methane detection is slightly greater than the equipment blank concentration and is estimated with high bias (J+). Sample MW-158A-071919 ethene detection is less than the equipment blank concentration and qualified as not detected (U).**

        - **Sample MW-143-071919 ethene detection is slightly greater than the equipment blank concentration and is estimated with high bias (J+).**

        - **Sample MW-106-071919 methane detection is less than the equipment blank concentration and qualified as not detected (U).**

    - Low levels of alkalinity, chloride, TOC, iron, and manganese are detected in the equipment blank. No action was taken on this basis since associated detections are either above the RDL or are not detected.

- SDG L1122507: An equipment blank sample (EQ-072519) was collected on July 27, 2019 from the bladder pump associated with samples MW-142-072519. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

    - Low levels of acetone, chlorobenzene, and chloroform are detected in the equipment blank. **Sample MW-142-072519 acetone, chlorobenzene, and chloroform detections are less than the RDL and are qualified (U) as not**

detected due to equipment blank contamination. Low levels of alkalinity, chloride, nitrate, sulfate, TOC, iron, and manganese are also detected in the equipment blank. No action was taken on this basis since associated detections are either above the RDL or are not detected.

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1120206: Samples MW-147-071819 and MW-912-071819;
- SDG L1120206: Samples SCS-2-071819 and MW-914-071819;
- SDG L1120698: Samples MW-146-071919 and MW-913-071919;
- SDG L1121848: Samples SV-01-071919 and SV-01-071919-D

Target analyte results are comparable and within a relative percent difference (RPD) of 30% for the field duplicate pair with the following exceptions:

- SDG L1120206: Samples MW-147-071819 and MW-912-071819 - Iron results are not comparable with an RPD greater than 30% (for results < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for iron are estimated and qualified (J).**

- SDG L1120698: Samples MW-146-071919 and MW-913-071919 - Gasoline, cis-1,2-dichloroethene, and vinyl chloride results are not comparable with RPDs greater than 30% (for results < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for gasoline, cis-1,2-dichloroethene, and vinyl chloride are estimated and qualified (J).** Refer to Compound Identification and Quantitation Limits for further discussion regarding gasoline results.

- SDG L1121848: Samples SV-01-071919 and SV-01-071919-D - Acetone results are not comparable with an RPD greater than 30% (low level duplicate results were evaluated using < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for acetone are estimated and qualified (J).** The associated method blank was contaminated with multiple compounds at low levels. Refer to the discussion under Method Blank Results for more information.

Laboratory Duplicate Analyses

USEPA Method 8260C:
Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

NWTPH-Gx Method:
A laboratory duplicate sample was not analyzed. Refer to LCS/LCSD or MS/MSDs results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
A laboratory duplicate sample was performed on client samples and on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits with the following discussions:

- SDG L1121576: Non client laboratory duplicate sample nitrate RPD result exceeds 15%. No action is taken since the duplicate was performed on a non-client sample refer to additional laboratory duplicate results for precision data.

- SDG L1121576: Client sample MW-160-072319 TOC RPD result slightly exceeds 20%. No action is taken since the result < 5X RDL and the absolute difference < 1X RDL.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all the analyses with the following exceptions:

- SDG L1120698 – Analytical Batch WG1315893: Surrogate recovery toluene-d8 is recovered above laboratory control limit criteria for sample MW-138-071919. Acetone is detected in MW-138-071919 however detected results are already estimated and qualified (J) since the result is below the RDL.

- SDG L1120698 Analytical Batch WG1315893: Surrogate recovery toluene-d8 is recovered above laboratory control limit criteria for sample MW-119-071919. Acetone, cis-1,2-dichloroethene, and tetrachloroethene are detected at low levels in sample MW-119-071919 however detected results are already estimated and qualified (J) since the result is below the RDL.

USEPA Method TO-15:
The surrogate recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

NWTPH-Gx Method:

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all analyses.

Laboratory Control Samples

USEPA Method 8260C:
Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions:

- SDGs L1119161 and L1119171 - Analytical batch WG1314393. An LCSD was not analyzed for cis-1,2-dichloroethene, tetrachloroethene, and trichloroethene. These selected targets were reanalyzed on July 20, 2019 due to necessary dilution. Refer to initial analysis associated with analytical batch WG1313581 for precision data.

- SDG L1119726 - Analytical batches WG1314770 and WG1316884. An LCSD was not analyzed. Refer to field duplicate data associated with SDG L1120206 for precision data.

- SDG L1120698 - Analytical batch WG1315893. An LCSD was not analyzed. Refer to field duplicate data for precision data.

- SDG L1121210 – Analytical batches WG1317007, WG1317389, and WG1320771. An LCSD was not analyzed. Refer to field duplicate data for precision data.

USEPA Method TO-15:
LCS/LCSDs were analyzed for the VOCs by TO-15 along with each analytical batch. LCS/LCSD %Rs and relative percent differences (RPDs) are within QC criteria.

NWTPH-Gx Method:
The LCS or LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD %Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:
The LCS/LCSD %Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS or LCS/LCSD %Rs and RPDs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses was performed on a non-client sample within the analytical batch. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

USEPA Method TO-15:
MS/MSD analyses were not performed. Refer to LCS/LCSD and field duplicate data for accuracy and precision data.

NWTPH-Gx Method:
MS/MSD analyses were performed on client or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
MS/MSD analyses were performed on client or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters with the following discussions:

- SDG L1120206 - Analytical batch WG1317135: MS/MSDs were performed on a non-client sample. The sample amounts for methane are greater than four times the spike amount exceeding the upper calibration criteria and MS/MSD results are qualified (EV) by the laboratory. No action was taken. LCS/LCSD results are within criteria.

USEPA Method 6020B:
MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDG L1119161 - Analytical batch WG1313436: MS/MSD were performed on client sample FMW-129-071619. The sample amount for manganese is greater than four times the spike amount and MSD results are qualified (V) by the laboratory. Per Guidance, no action is necessary. LCS/LCSD results are within criteria.

- SDG L1121576 - Analytical batch WG1317876: MS/MSD were performed MW-160-072319. The sample amount for manganese is greater than four times the spike amount and MSD results are qualified (V) by the laboratory. Per Guidance, no action is necessary. LCS/LCSD results are within criteria.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or

laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDGs L1119161 and L1119171 - Analytical batch WG1312677: The MS/MSDs were performed on a non-client sample. Results for nitrate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. Results for sulfate are qualified (E and EV) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range and/or the sample amount was far greater than the spiked amount. No action was taken other than to note that the laboratory duplicate and LCS percent recovery results are within criteria.

- SDGs L1119161 and L1119171 - Analytical batch WG1312677: An additional MS was performed on client sample MW-120-071619 (SDG L1119171). Results for sulfate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that the LCS recovery results are within criteria.

- SDG L1119726 - Analytical batch WG1313370: MS/MSD analyses was performed on sample BB-8-071719. Results for sulfate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action is taken other than to note that the LCS and duplicate results are within criteria.

- SDG L1119726 - Analytical batch WG1313370: MS/MSD analyses was performed on non-client samples. Results for chloride and sulfate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action is taken other than to note that the LCS and duplicate results are within criteria.

- SDG L1120206 - Analytical batch WG1314262: MS/MSD analyses was performed on a non-client sample. Results for chloride and nitrate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action is taken other than to note that the LCS and duplicate results are within criteria.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

- Multiple SDGs: Selected sample narratives for alkalinity results indicate that several sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Several chlorinated VOC compounds (including cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene, and tetrachloroethene) elute within the GRO retention time range. Elevated chlorinated VOC compounds likely contribute to the GRO result and associated GRO results are likely biased high (J+). No action was taken for gasoline detections below the RDL since the results are estimated (J). Qualified samples are as follows:

Sample ID	Laboratory Identification	Result Parameter Name	Result Value (µg/L)	Qualified Result	Comments
MW-120-071619	L1119171-08	Gasoline Range Organics	152	J+	Elevated chlorinated VOCs within the GRO elution range
MW113-071719	L1119726-02	Gasoline Range Organics	2560	J+	Elevated chlorinated VOCs within the GRO elution range
BB-8-071719	L1119726-05	Gasoline Range Organics	112	J+	Elevated chlorinated VOCs within the GRO elution range
MW-912-071819	L1120206-03	Gasoline Range Organics	170	J+	Elevated chlorinated VOCs within the GRO elution range
MW-147-071819	L1120206-06	Gasoline Range Organics	175	J+	Elevated chlorinated VOCs within the GRO elution range
MW-913-071919	L1120698-09	Gasoline Range Organics	262	J+	Elevated chlorinated VOCs within the GRO elution range
MW-157-072219	L1121210-05	Gasoline Range Organics	3880	J+	Elevated chlorinated VOCs within the GRO elution range
MW-156-072219	L1121210-06	Gasoline Range Organics	3100	J+	Elevated chlorinated VOCs within the GRO elution range
MW-107-072219	L1121210-07	Gasoline Range Organics	210	J+	Elevated chlorinated VOCs within the GRO elution range

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. No action is taken other than to note that Pace sample narrative notes indicate that VOC target compounds were too high to run at lower dilution for samples as follows:

- SDG L1120206: Sample MW-147-071819; and
- SDG L1121210: Samples MW-157-072219 and MW-107-072219.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	221000		2710	20000	1	07/22/2019 12:26	WG1315264

Sample Narrative:

L1119161-01 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	23700		51.9	1000	1	07/17/2019 18:43	WG1312677
Nitrate	771		22.7	100	1	07/17/2019 18:43	WG1312677
Sulfate	86800		77.4	5000	1	07/17/2019 18:43	WG1312677

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2230	~~B~~	102	1000	1	07/17/2019 23:00	WG1312820

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	4600		75.0	500	5	07/22/2019 13:04	WG1313436
Manganese	415	~~V~~	1.25	25.0	5	07/22/2019 13:04	WG1313436

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	40.5		0.287	0.678	1	07/23/2019 13:32	WG1315671
Ethane	6.45		0.296	1.29	1	07/23/2019 13:32	WG1315671
Ethene	U		0.422	1.27	1	07/23/2019 13:32	WG1315671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.75 U	~~B J~~	1.05	25.0	1	07/18/2019 14:03	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 14:03	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 14:03	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 14:03	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 14:03	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 14:03	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 14:03	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 14:03	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 14:03	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 14:03	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 14:03	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 14:03	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 14:03	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 14:03	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 14:03	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 14:03	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 14:03	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 14:03	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 14:03	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 14:03	WG1313581

JC 8/5/19

FMW-129-071619 SAMPLE RESULTS - 01

Collected date/time: 07/16/19 11:15

L1119161

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 14:03	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 14:03	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 14:03	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 14:03	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 14:03	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 14:03	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 14:03	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 14:03	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 14:03	WG1313581
1,1-Dichloroethene	1.69		0.188	0.500	1	07/18/2019 14:03	WG1313581
cis-1,2-Dichloroethene	272		1.87	10.0	20	07/20/2019 23:14	WG1314393
trans-1,2-Dichloroethene	1.61		0.152	0.500	1	07/18/2019 14:03	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 14:03	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 14:03	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 14:03	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 14:03	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 14:03	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/18/2019 14:03	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 14:03	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 14:03	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 14:03	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 14:03	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 14:03	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 14:03	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 14:03	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 14:03	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 14:03	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 14:03	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 14:03	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 14:03	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 14:03	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 14:03	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 14:03	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 14:03	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 14:03	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 14:03	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 14:03	WG1313581
Tetrachloroethene	159		0.199	0.500	1	07/18/2019 14:03	WG1313581
Toluene	U		0.412	0.500	1	07/18/2019 14:03	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 14:03	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 14:03	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 14:03	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 14:03	WG1313581
Trichloroethene	84.1		3.06	10.0	20	07/20/2019 23:14	WG1314393
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	07/18/2019 14:03	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 14:03	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 14:03	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 14:03	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 14:03	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 14:03	WG1313581
Vinyl chloride	0.296	J J	0.118	0.500	1	07/18/2019 14:03	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 14:03	WG1313581
(S) Toluene-d8	*109*			*80.0-120*		*07/18/2019 14:03*	WG1313581
(S) Toluene-d8	*110*			*80.0-120*		*07/20/2019 23:14*	WG1314393
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*07/18/2019 14:03*	WG1313581
(S) 4-Bromofluorobenzene	*96.9*			*77.0-126*		*07/20/2019 23:14*	WG1314393

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*07/18/2019 14:03*	WG1313581
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*07/20/2019 23:14*	WG1314393

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MW112-071619

Collected date/time: 07/16/19 12:05

SAMPLE RESULTS - 02

L1119161

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	112000		2710	20000	1	07/22/2019 12:33	WG1315264

Sample Narrative:

L1119161-02 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	8610		51.9	1000	1	07/17/2019 18:59	WG1312677
Nitrate	U		22.7	100	1	07/17/2019 18:59	WG1312677
Sulfate	17100		77.4	5000	1	07/17/2019 18:59	WG1312677

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6120		102	1000	1	07/17/2019 23:13	WG1312820

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1280		15.0	100	1	07/22/2019 11:18	WG1313436
Manganese	154		0.250	5.00	1	07/22/2019 11:18	WG1313436

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	31.7	U ~~B J~~	31.6	100	1	07/18/2019 18:12	WG1313748
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*07/18/2019 18:12*	WG1313748

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	149		0.287	0.678	1	07/23/2019 13:52	WG1315671
Ethane	3.81		0.296	1.29	1	07/23/2019 13:52	WG1315671
Ethene	U		0.422	1.27	1	07/23/2019 13:52	WG1315671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.24	U ~~B J~~	1.05	25.0	1	07/18/2019 14:25	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 14:25	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 14:25	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 14:25	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 14:25	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 14:25	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 14:25	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 14:25	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 14:25	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 14:25	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 14:25	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 14:25	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 14:25	WG1313581

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/18/2019 14:25	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 14:25	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 14:25	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 14:25	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 14:25	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 14:25	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 14:25	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 14:25	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 14:25	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 14:25	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 14:25	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 14:25	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 14:25	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 14:25	WG1313581
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 23:33	WG1314393
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 14:25	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 14:25	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 14:25	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 14:25	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 14:25	WG1313581
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/18/2019 14:25	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 14:25	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 14:25	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 14:25	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 14:25	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 14:25	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 14:25	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 14:25	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 14:25	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 14:25	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 14:25	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 14:25	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 14:25	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 14:25	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 14:25	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 14:25	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 14:25	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 14:25	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 14:25	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 14:25	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 23:33	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 14:25	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 14:25	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 14:25	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 14:25	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 14:25	WG1313581
Trichloroethene	U		0.153	0.500	1	07/20/2019 23:33	WG1314393
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 14:25	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 14:25	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 14:25	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 14:25	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 14:25	WG1313581

JC 8/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/18/2019 14:25	WG1313581
Vinyl chloride	U		0.118	0.500	1	07/18/2019 14:25	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 14:25	WG1313581
(S) Toluene-d8	*105*			*80.0-120*		*07/18/2019 14:25*	WG1313581
(S) Toluene-d8	*111*			*80.0-120*		*07/20/2019 23:33*	WG1314393
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*07/18/2019 14:25*	WG1313581
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/20/2019 23:33*	WG1314393
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/18/2019 14:25*	WG1313581
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*07/20/2019 23:33*	WG1314393

JC 8/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	529000		2710	20000	1	07/22/2019 12:40	WG1315264

Sample Narrative:

L1119161-03 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	13400		51.9	1000	1	07/17/2019 19:49	WG1312677
Nitrate	U		22.7	100	1	07/17/2019 19:49	WG1312677
Sulfate	U		77.4	5000	1	07/17/2019 19:49	WG1312677

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8290		102	1000	1	07/17/2019 23:41	WG1312820

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	17100		150	1000	10	07/22/2019 13:07	WG1313436
Manganese	2480		5.00	100	20	07/22/2019 13:47	WG1313436

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	16100		2.87	6.78	10	07/23/2019 17:16	WG1316246
Ethane	U		0.296	1.29	1	07/23/2019 13:59	WG1315671
Ethene	U		0.422	1.27	1	07/23/2019 13:59	WG1315671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.32 U	~~B J~~	1.05	25.0	1	07/18/2019 14:46	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 14:46	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 14:46	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 14:46	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 14:46	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 14:46	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 14:46	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 14:46	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 14:46	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 14:46	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 14:46	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 14:46	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 14:46	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 14:46	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 14:46	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 14:46	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 14:46	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 14:46	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 14:46	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 14:46	WG1313581

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Volatile Organic Compounds (GC/MS) by Method 8260C

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 14:46	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 14:46	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 14:46	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 14:46	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 14:46	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 14:46	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 14:46	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 14:46	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 14:46	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 14:46	WG1313581
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 23:53	WG1314393
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 14:46	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 14:46	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 14:46	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 14:46	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 14:46	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 14:46	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/18/2019 14:46	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 14:46	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 14:46	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 14:46	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 14:46	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 14:46	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 14:46	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 14:46	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 14:46	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 14:46	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 14:46	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 14:46	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 14:46	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 14:46	WG1313581
Naphthalene	0.189	J J	0.174	2.50	1	07/18/2019 14:46	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 14:46	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 14:46	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 14:46	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 14:46	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 14:46	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 23:53	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 14:46	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 14:46	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 14:46	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 14:46	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 14:46	WG1313581
Trichloroethene	U		0.153	0.500	1	07/18/2019 14:46	WG1313581
Trichlorofluoromethane	U	UJ J0	0.130	2.50	1	07/18/2019 14:46	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 14:46	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 14:46	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 14:46	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 14:46	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 14:46	WG1313581
Vinyl chloride	U		0.118	0.500	1	07/18/2019 14:46	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 14:46	WG1313581
(S) Toluene-d8	*109*			*80.0-120*		*07/18/2019 14:46*	WG1313581
(S) Toluene-d8	*111*			*80.0-120*		*07/20/2019 23:53*	WG1314393
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/18/2019 14:46*	WG1313581
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/20/2019 23:53*	WG1314393

JC 8/5/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/18/2019 14:46*	WG1313581
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/20/2019 23:53*	WG1314393

JC 8/5/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	340000		2710	20000	1	07/22/2019 13:09	WG1315264

Sample Narrative:

L1119161-04 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	27100		51.9	1000	1	07/17/2019 20:05	WG1312677
Nitrate	U		22.7	100	1	07/17/2019 20:05	WG1312677
Sulfate	36100		77.4	5000	1	07/17/2019 20:05	WG1312677

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6600		102	1000	1	07/17/2019 23:55	WG1312820

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	7510		75.0	500	5	07/22/2019 13:11	WG1313436
Manganese	432		1.25	25.0	5	07/22/2019 13:11	WG1313436

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	4550		0.287	0.678	1	07/23/2019 14:05	WG1315671
Ethane	15.0		0.296	1.29	1	07/23/2019 14:05	WG1315671
Ethene	11.5		0.422	1.27	1	07/23/2019 14:05	WG1315671

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.77 U	~~B J~~	1.05	25.0	1	07/18/2019 15:08	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 15:08	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 15:08	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 15:08	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 15:08	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 15:08	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 15:08	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 15:08	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 15:08	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 15:08	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 15:08	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 15:08	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 15:08	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 15:08	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 15:08	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 15:08	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 15:08	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 15:08	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 15:08	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 15:08	WG1313581

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GEI-2-071619

Collected date/time: 07/16/19 14:55

SAMPLE RESULTS - 04

L1119161

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 15:08	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 15:08	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 15:08	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 15:08	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 15:08	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 15:08	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 15:08	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 15:08	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 15:08	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 15:08	WG1313581
cis-1,2-Dichloroethene	1.37		0.0933	0.500	1	07/21/2019 00:13	WG1314393
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 15:08	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 15:08	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 15:08	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 15:08	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 15:08	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 15:08	WG1313581
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/18/2019 15:08	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 15:08	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 15:08	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 15:08	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 15:08	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 15:08	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 15:08	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 15:08	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 15:08	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 15:08	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 15:08	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 15:08	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 15:08	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 15:08	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 15:08	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 15:08	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 15:08	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 15:08	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 15:08	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 15:08	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/18/2019 15:08	WG1313581
Toluene	U		0.412	0.500	1	07/18/2019 15:08	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 15:08	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 15:08	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 15:08	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 15:08	WG1313581
Trichloroethene	U		0.153	0.500	1	07/18/2019 15:08	WG1313581
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 15:08	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 15:08	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 15:08	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 15:08	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 15:08	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 15:08	WG1313581
Vinyl chloride	46.4		0.118	0.500	1	07/18/2019 15:08	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 15:08	WG1313581
(S) Toluene-d8	*107*			*80.0-120*		*07/18/2019 15:08*	WG1313581
(S) Toluene-d8	*113*			*80.0-120*		*07/21/2019 00:13*	WG1314393
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/18/2019 15:08*	WG1313581
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/21/2019 00:13*	WG1314393

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/18/2019 15:08*	WG1313581
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/21/2019 00:13*	WG1314393

JC 8/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	35.3	B J	31.6	100	1	07/18/2019 15:37	WG1313748
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*07/18/2019 15:37*	WG1313748

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.41	B J	1.05	25.0	1	07/18/2019 12:58	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 12:58	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 12:58	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 12:58	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 12:58	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 12:58	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 12:58	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 12:58	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 12:58	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 12:58	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 12:58	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 12:58	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 12:58	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 12:58	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 12:58	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 12:58	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 12:58	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 12:58	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 12:58	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 12:58	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 12:58	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 12:58	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 12:58	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 12:58	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 12:58	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 12:58	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 12:58	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 12:58	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 12:58	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 12:58	WG1313581
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/18/2019 12:58	WG1313581
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 12:58	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 12:58	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 12:58	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 12:58	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 12:58	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 12:58	WG1313581
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/18/2019 12:58	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 12:58	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 12:58	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 12:58	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 12:58	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 12:58	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 12:58	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 12:58	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 12:58	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 12:58	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 12:58	WG1313581

JC 8/5/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	07/18/2019 12:58	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 12:58	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 12:58	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 12:58	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 12:58	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 12:58	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 12:58	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 12:58	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 12:58	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/18/2019 12:58	WG1313581
Toluene	U		0.412	0.500	1	07/18/2019 12:58	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 12:58	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 12:58	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 12:58	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 12:58	WG1313581
Trichloroethene	U		0.153	0.500	1	07/18/2019 12:58	WG1313581
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 12:58	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 12:58	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 12:58	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 12:58	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 12:58	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 12:58	WG1313581
Vinyl chloride	U		0.118	0.500	1	07/18/2019 12:58	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 12:58	WG1313581
(S) Toluene-d8	*108*			*80.0-120*		*07/18/2019 12:58*	WG1313581
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*07/18/2019 12:58*	WG1313581
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/18/2019 12:58*	WG1313581

JC 8/5/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.38 U	B J	1.05	25.0	1	07/18/2019 15:30	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 15:30	WG1313581
Benzene	0.285 J	J	0.0896	0.500	1	07/18/2019 15:30	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 15:30	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 15:30	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 15:30	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 15:30	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 15:30	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 15:30	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 15:30	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 15:30	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 15:30	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 15:30	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 15:30	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 15:30	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 15:30	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 15:30	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 15:30	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 15:30	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 15:30	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 15:30	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 15:30	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 15:30	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 15:30	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 15:30	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 15:30	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 15:30	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 15:30	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 15:30	WG1313581
1,1-Dichloroethene	8.44		0.188	0.500	1	07/18/2019 15:30	WG1313581
cis-1,2-Dichloroethene	578		1.87	10.0	20	07/21/2019 00:32	WG1314393
trans-1,2-Dichloroethene	5.87		0.152	0.500	1	07/18/2019 15:30	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 15:30	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 15:30	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 15:30	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 15:30	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 15:30	WG1313581
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/18/2019 15:30	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 15:30	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 15:30	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 15:30	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 15:30	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 15:30	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 15:30	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 15:30	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 15:30	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 15:30	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 15:30	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 15:30	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 15:30	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 15:30	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 15:30	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 15:30	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 15:30	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 15:30	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 15:30	WG1313581

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 15:30	WG1313581
Tetrachloroethene	1220		3.98	10.0	20	07/21/2019 00:32	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 15:30	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 15:30	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 15:30	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 15:30	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 15:30	WG1313581
Trichloroethene	455		3.06	10.0	20	07/21/2019 00:32	WG1314393
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 15:30	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 15:30	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 15:30	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 15:30	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 15:30	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 15:30	WG1313581
Vinyl chloride	1.26		0.118	0.500	1	07/18/2019 15:30	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 15:30	WG1313581
(S) Toluene-d8	*108*			*80.0-120*		*07/18/2019 15:30*	WG1313581
(S) Toluene-d8	*112*			*80.0-120*		*07/21/2019 00:32*	WG1314393
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*07/18/2019 15:30*	WG1313581
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/21/2019 00:32*	WG1314393
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/18/2019 15:30*	WG1313581
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/21/2019 00:32*	WG1314393

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l			ug/l	ug/l		date / time		
Acetone	2.55	U	B J	1.05	25.0	1	07/18/2019 15:51	WG1313581	
Acrylonitrile	U			0.873	5.00	1	07/18/2019 15:51	WG1313581	
Benzene	U			0.0896	0.500	1	07/18/2019 15:51	WG1313581	
Bromobenzene	U			0.133	0.500	1	07/18/2019 15:51	WG1313581	
Bromodichloromethane	U			0.0800	0.500	1	07/18/2019 15:51	WG1313581	
Bromochloromethane	U			0.145	0.500	1	07/18/2019 15:51	WG1313581	
Bromoform	U			0.186	0.500	1	07/18/2019 15:51	WG1313581	
Bromomethane	U			0.157	2.50	1	07/18/2019 15:51	WG1313581	
n-Butylbenzene	U			0.143	0.500	1	07/18/2019 15:51	WG1313581	
sec-Butylbenzene	U			0.134	0.500	1	07/18/2019 15:51	WG1313581	
tert-Butylbenzene	U			0.183	0.500	1	07/18/2019 15:51	WG1313581	
Carbon disulfide	U			0.101	0.500	1	07/18/2019 15:51	WG1313581	
Carbon tetrachloride	U			0.159	0.500	1	07/18/2019 15:51	WG1313581	
Chlorobenzene	U			0.140	0.500	1	07/18/2019 15:51	WG1313581	
Chlorodibromomethane	U			0.128	0.500	1	07/18/2019 15:51	WG1313581	
Chloroethane	0.275	J	J	0.141	2.50	1	07/18/2019 15:51	WG1313581	
Chloroform	U			0.0860	0.500	1	07/18/2019 15:51	WG1313581	
Chloromethane	U			0.153	1.25	1	07/18/2019 15:51	WG1313581	
2-Chlorotoluene	U			0.111	0.500	1	07/18/2019 15:51	WG1313581	
4-Chlorotoluene	U			0.0972	0.500	1	07/18/2019 15:51	WG1313581	
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	07/18/2019 15:51	WG1313581	
1,2-Dibromoethane	U			0.193	0.500	1	07/18/2019 15:51	WG1313581	
Dibromomethane	U			0.117	0.500	1	07/18/2019 15:51	WG1313581	
1,2-Dichlorobenzene	U			0.101	0.500	1	07/18/2019 15:51	WG1313581	
1,3-Dichlorobenzene	U			0.130	0.500	1	07/18/2019 15:51	WG1313581	
1,4-Dichlorobenzene	U			0.121	0.500	1	07/18/2019 15:51	WG1313581	
Dichlorodifluoromethane	U			0.127	2.50	1	07/18/2019 15:51	WG1313581	
1,1-Dichloroethane	U			0.114	0.500	1	07/18/2019 15:51	WG1313581	
1,2-Dichloroethane	U			0.108	0.500	1	07/18/2019 15:51	WG1313581	
1,1-Dichloroethene	U			0.188	0.500	1	07/18/2019 15:51	WG1313581	
cis-1,2-Dichloroethene	0.596			0.0933	0.500	1	07/21/2019 00:52	WG1314393	
trans-1,2-Dichloroethene	U			0.152	0.500	1	07/18/2019 15:51	WG1313581	
1,2-Dichloropropane	U			0.190	0.500	1	07/18/2019 15:51	WG1313581	
1,1-Dichloropropene	U			0.128	0.500	1	07/18/2019 15:51	WG1313581	
1,3-Dichloropropane	U			0.147	1.00	1	07/18/2019 15:51	WG1313581	
cis-1,3-Dichloropropene	U			0.0976	0.500	1	07/18/2019 15:51	WG1313581	
trans-1,3-Dichloropropene	U			0.222	0.500	1	07/18/2019 15:51	WG1313581	
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.257	5.00	1	07/18/2019 15:51	WG1313581	
2,2-Dichloropropane	U			0.0929	0.500	1	07/18/2019 15:51	WG1313581	
Di-isopropyl ether	U			0.0924	0.500	1	07/18/2019 15:51	WG1313581	
Ethylbenzene	U			0.158	0.500	1	07/18/2019 15:51	WG1313581	
Hexachloro-1,3-butadiene	U			0.157	1.00	1	07/18/2019 15:51	WG1313581	
2-Hexanone	U			0.757	5.00	1	07/18/2019 15:51	WG1313581	
n-Hexane	U			0.305	5.00	1	07/18/2019 15:51	WG1313581	
Iodomethane	U			0.377	10.0	1	07/18/2019 15:51	WG1313581	
Isopropylbenzene	U			0.126	0.500	1	07/18/2019 15:51	WG1313581	
p-Isopropyltoluene	U			0.138	0.500	1	07/18/2019 15:51	WG1313581	
2-Butanone (MEK)	U			1.28	5.00	1	07/18/2019 15:51	WG1313581	
Methylene Chloride	U			1.07	2.50	1	07/18/2019 15:51	WG1313581	
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	07/18/2019 15:51	WG1313581	
Methyl tert-butyl ether	U			0.102	0.500	1	07/18/2019 15:51	WG1313581	
Naphthalene	U			0.174	2.50	1	07/18/2019 15:51	WG1313581	
n-Propylbenzene	U			0.162	0.500	1	07/18/2019 15:51	WG1313581	
Styrene	U			0.117	0.500	1	07/18/2019 15:51	WG1313581	JC 8/5/19
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	07/18/2019 15:51	WG1313581	
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	07/18/2019 15:51	WG1313581	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 15:51	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 00:52	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 15:51	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 15:51	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 15:51	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 15:51	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 15:51	WG1313581
Trichloroethene	U		0.153	0.500	1	07/21/2019 00:52	WG1314393
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 15:51	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 15:51	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 15:51	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 15:51	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 15:51	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 15:51	WG1313581
Vinyl chloride	15.0		0.118	0.500	1	07/18/2019 15:51	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 15:51	WG1313581
(S) Toluene-d8	*108*			*80.0-120*		*07/18/2019 15:51*	WG1313581
(S) Toluene-d8	*108*			*80.0-120*		*07/21/2019 00:52*	WG1314393
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*07/18/2019 15:51*	WG1313581
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/21/2019 00:52*	WG1314393
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*07/18/2019 15:51*	WG1313581
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*07/21/2019 00:52*	WG1314393

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MW-103-071519

Collected date/time: 07/15/19 12:45

SAMPLE RESULTS - 03

L1119171

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.13	U	B J	1.05	25.0	1	07/18/2019 16:12	WG1313581
Acrylonitrile	U			0.873	5.00	1	07/18/2019 16:12	WG1313581
Benzene	U			0.0896	0.500	1	07/18/2019 16:12	WG1313581
Bromobenzene	U			0.133	0.500	1	07/18/2019 16:12	WG1313581
Bromodichloromethane	U			0.0800	0.500	1	07/18/2019 16:12	WG1313581
Bromochloromethane	U			0.145	0.500	1	07/18/2019 16:12	WG1313581
Bromoform	U			0.186	0.500	1	07/18/2019 16:12	WG1313581
Bromomethane	U			0.157	2.50	1	07/18/2019 16:12	WG1313581
n-Butylbenzene	U			0.143	0.500	1	07/18/2019 16:12	WG1313581
sec-Butylbenzene	U			0.134	0.500	1	07/18/2019 16:12	WG1313581
tert-Butylbenzene	U			0.183	0.500	1	07/18/2019 16:12	WG1313581
Carbon disulfide	U			0.101	0.500	1	07/18/2019 16:12	WG1313581
Carbon tetrachloride	U			0.159	0.500	1	07/18/2019 16:12	WG1313581
Chlorobenzene	U			0.140	0.500	1	07/18/2019 16:12	WG1313581
Chlorodibromomethane	U			0.128	0.500	1	07/18/2019 16:12	WG1313581
Chloroethane	U			0.141	2.50	1	07/18/2019 16:12	WG1313581
Chloroform	U			0.0860	0.500	1	07/18/2019 16:12	WG1313581
Chloromethane	U			0.153	1.25	1	07/18/2019 16:12	WG1313581
2-Chlorotoluene	U			0.111	0.500	1	07/18/2019 16:12	WG1313581
4-Chlorotoluene	U			0.0972	0.500	1	07/18/2019 16:12	WG1313581
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	07/18/2019 16:12	WG1313581
1,2-Dibromoethane	U			0.193	0.500	1	07/18/2019 16:12	WG1313581
Dibromomethane	U			0.117	0.500	1	07/18/2019 16:12	WG1313581
1,2-Dichlorobenzene	U			0.101	0.500	1	07/18/2019 16:12	WG1313581
1,3-Dichlorobenzene	U			0.130	0.500	1	07/18/2019 16:12	WG1313581
1,4-Dichlorobenzene	U			0.121	0.500	1	07/18/2019 16:12	WG1313581
Dichlorodifluoromethane	U			0.127	2.50	1	07/18/2019 16:12	WG1313581
1,1-Dichloroethane	U			0.114	0.500	1	07/18/2019 16:12	WG1313581
1,2-Dichloroethane	U			0.108	0.500	1	07/18/2019 16:12	WG1313581
1,1-Dichloroethene	1.36			0.188	0.500	1	07/18/2019 16:12	WG1313581
cis-1,2-Dichloroethene	118			0.0933	0.500	1	07/18/2019 16:12	WG1313581
trans-1,2-Dichloroethene	0.232	J	J	0.152	0.500	1	07/18/2019 16:12	WG1313581
1,2-Dichloropropane	U			0.190	0.500	1	07/18/2019 16:12	WG1313581
1,1-Dichloropropene	U			0.128	0.500	1	07/18/2019 16:12	WG1313581
1,3-Dichloropropane	U			0.147	1.00	1	07/18/2019 16:12	WG1313581
cis-1,3-Dichloropropene	U			0.0976	0.500	1	07/18/2019 16:12	WG1313581
trans-1,3-Dichloropropene	U			0.222	0.500	1	07/18/2019 16:12	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.257	5.00	1	07/18/2019 16:12	WG1313581
2,2-Dichloropropane	U			0.0929	0.500	1	07/18/2019 16:12	WG1313581
Di-isopropyl ether	U			0.0924	0.500	1	07/18/2019 16:12	WG1313581
Ethylbenzene	U			0.158	0.500	1	07/18/2019 16:12	WG1313581
Hexachloro-1,3-butadiene	U			0.157	1.00	1	07/18/2019 16:12	WG1313581
2-Hexanone	U			0.757	5.00	1	07/18/2019 16:12	WG1313581
n-Hexane	U			0.305	5.00	1	07/18/2019 16:12	WG1313581
Iodomethane	U			0.377	10.0	1	07/18/2019 16:12	WG1313581
Isopropylbenzene	U			0.126	0.500	1	07/18/2019 16:12	WG1313581
p-Isopropyltoluene	U			0.138	0.500	1	07/18/2019 16:12	WG1313581
2-Butanone (MEK)	U			1.28	5.00	1	07/18/2019 16:12	WG1313581
Methylene Chloride	U			1.07	2.50	1	07/18/2019 16:12	WG1313581
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	07/18/2019 16:12	WG1313581
Methyl tert-butyl ether	U			0.102	0.500	1	07/18/2019 16:12	WG1313581
Naphthalene	U			0.174	2.50	1	07/18/2019 16:12	WG1313581
n-Propylbenzene	U			0.162	0.500	1	07/18/2019 16:12	WG1313581
Styrene	U			0.117	0.500	1	07/18/2019 16:12	WG1313581
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	07/18/2019 16:12	WG1313581
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	07/18/2019 16:12	WG1313581

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 16:12	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 01:11	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 16:12	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 16:12	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 16:12	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 16:12	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 16:12	WG1313581
Trichloroethene	2.37		0.153	0.500	1	07/21/2019 01:11	WG1314393
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 16:12	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 16:12	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 16:12	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 16:12	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 16:12	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 16:12	WG1313581
Vinyl chloride	55.4		0.118	0.500	1	07/18/2019 16:12	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 16:12	WG1313581
(S) Toluene-d8	*107*			*80.0-120*		*07/18/2019 16:12*	WG1313581
(S) Toluene-d8	*111*			*80.0-120*		*07/21/2019 01:11*	WG1314393
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/18/2019 16:12*	WG1313581
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*07/21/2019 01:11*	WG1314393
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*07/18/2019 16:12*	WG1313581
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*07/21/2019 01:11*	WG1314393

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.78 U	B J	1.05	25.0	1	07/18/2019 16:34	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 16:34	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 16:34	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 16:34	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 16:34	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 16:34	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 16:34	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 16:34	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 16:34	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 16:34	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 16:34	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 16:34	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 16:34	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 16:34	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 16:34	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 16:34	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 16:34	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 16:34	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 16:34	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 16:34	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 16:34	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 16:34	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 16:34	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 16:34	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 16:34	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 16:34	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 16:34	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 16:34	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 16:34	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 16:34	WG1313581
cis-1,2-Dichloroethene	30.8		0.0933	0.500	1	07/18/2019 16:34	WG1313581
trans-1,2-Dichloroethene	0.199 J	J	0.152	0.500	1	07/18/2019 16:34	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 16:34	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 16:34	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 16:34	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 16:34	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 16:34	WG1313581
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/18/2019 16:34	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 16:34	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 16:34	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 16:34	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 16:34	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 16:34	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 16:34	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 16:34	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 16:34	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 16:34	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 16:34	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 16:34	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 16:34	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 16:34	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 16:34	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 16:34	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 16:34	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 16:34	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 16:34	WG1313581

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MW-109-071519

Collected date/time: 07/15/19 13:45

SAMPLE RESULTS - 04

L1119171

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 16:34	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 01:31	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 16:34	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 16:34	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 16:34	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 16:34	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 16:34	WG1313581
Trichloroethene	0.265 J	J	0.153	0.500	1	07/21/2019 01:31	WG1314393
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 16:34	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 16:34	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 16:34	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 16:34	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 16:34	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 16:34	WG1313581
Vinyl chloride	24.4		0.118	0.500	1	07/18/2019 16:34	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 16:34	WG1313581
(S) Toluene-d8	*110*			*80.0-120*		*07/18/2019 16:34*	WG1313581
(S) Toluene-d8	*114*			*80.0-120*		*07/21/2019 01:31*	WG1314393
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*07/18/2019 16:34*	WG1313581
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/21/2019 01:31*	WG1314393
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/18/2019 16:34*	WG1313581
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/21/2019 01:31*	WG1314393

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	68.0 U	B J	31.6	100	1	07/18/2019 18:35	WG1313748
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*07/18/2019 18:35*	WG1313748

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.42 U	B J	1.05	25.0	1	07/18/2019 17:52	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 17:52	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 17:52	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 17:52	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 17:52	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 17:52	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 17:52	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 17:52	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 17:52	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 17:52	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 17:52	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 17:52	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 17:52	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 17:52	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 17:52	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 17:52	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 17:52	WG1313581
Chloromethane	0.161 J	J	0.153	1.25	1	07/18/2019 17:52	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 17:52	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 17:52	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 17:52	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 17:52	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 17:52	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 17:52	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 17:52	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 17:52	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 17:52	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 17:52	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 17:52	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 17:52	WG1313581
cis-1,2-Dichloroethene	2.55		0.0933	0.500	1	07/18/2019 17:52	WG1313581
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 17:52	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 17:52	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 17:52	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 17:52	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 17:52	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 17:52	WG1313581
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/18/2019 17:52	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 17:52	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 17:52	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 17:52	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 17:52	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 17:52	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 17:52	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 17:52	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 17:52	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 17:52	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 17:52	WG1313581

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 17:52	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 17:52	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 17:52	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 17:52	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 17:52	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 17:52	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 17:52	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 17:52	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 17:52	WG1313581
Tetrachloroethene	69.5		0.199	0.500	1	07/18/2019 17:52	WG1313581
Toluene	U		0.412	0.500	1	07/18/2019 17:52	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 17:52	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 17:52	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 17:52	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 17:52	WG1313581
Trichloroethene	5.75		0.153	0.500	1	07/18/2019 17:52	WG1313581
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 17:52	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 17:52	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 17:52	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 17:52	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 17:52	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 17:52	WG1313581
Vinyl chloride	0.211 J	J	0.118	0.500	1	07/18/2019 17:52	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 17:52	WG1313581
(S) Toluene-d8	*105*			*80.0-120*		*07/18/2019 17:52*	WG1313581
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/18/2019 17:52*	WG1313581
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/18/2019 17:52*	WG1313581

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.90 U	B J	1.05	25.0	1	07/18/2019 18:14	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 18:14	WG1313581
Benzene	2.90		0.0896	0.500	1	07/18/2019 18:14	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 18:14	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 18:14	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 18:14	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 18:14	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 18:14	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 18:14	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 18:14	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 18:14	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 18:14	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 18:14	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 18:14	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 18:14	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 18:14	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 18:14	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 18:14	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 18:14	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 18:14	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 18:14	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 18:14	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 18:14	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 18:14	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 18:14	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 18:14	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 18:14	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 18:14	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 18:14	WG1313581
1,1-Dichloroethene	4.09		0.188	0.500	1	07/18/2019 18:14	WG1313581
cis-1,2-Dichloroethene	918		2.33	12.5	25	07/21/2019 02:10	WG1314393
trans-1,2-Dichloroethene	3.48		0.152	0.500	1	07/18/2019 18:14	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 18:14	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 18:14	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 18:14	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 18:14	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 18:14	WG1313581
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/18/2019 18:14	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 18:14	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 18:14	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 18:14	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 18:14	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 18:14	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 18:14	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 18:14	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 18:14	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 18:14	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 18:14	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 18:14	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 18:14	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 18:14	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 18:14	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 18:14	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 18:14	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 18:14	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 18:14	WG1313581

JC 8/5/19

MW-108-071519

Collected date/time: 07/15/19 14:45

SAMPLE RESULTS - 06

L1119171

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 18:14	WG1313581
Tetrachloroethene	567		4.98	12.5	25	07/21/2019 02:10	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 18:14	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 18:14	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 18:14	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 18:14	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 18:14	WG1313581
Trichloroethene	189		0.153	0.500	1	07/18/2019 18:14	WG1313581
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 18:14	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 18:14	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 18:14	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 18:14	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 18:14	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 18:14	WG1313581
Vinyl chloride	197		0.118	0.500	1	07/18/2019 18:14	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 18:14	WG1313581
(S) Toluene-d8	*109*			*80.0-120*		*07/18/2019 18:14*	WG1313581
(S) Toluene-d8	*116*			*80.0-120*		*07/21/2019 02:10*	WG1314393
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/18/2019 18:14*	WG1313581
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*07/21/2019 02:10*	WG1314393
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*07/18/2019 18:14*	WG1313581
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/21/2019 02:10*	WG1314393

JC 8/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	57.4 U	B J	31.6	100	1	07/18/2019 18:57	WG1313748
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*07/18/2019 18:57*	WG1313748

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.40 U	B J	1.05	25.0	1	07/18/2019 18:36	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 18:36	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 18:36	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 18:36	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 18:36	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 18:36	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 18:36	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 18:36	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 18:36	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 18:36	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 18:36	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 18:36	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 18:36	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 18:36	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 18:36	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 18:36	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 18:36	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 18:36	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 18:36	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 18:36	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 18:36	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 18:36	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 18:36	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 18:36	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 18:36	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 18:36	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 18:36	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 18:36	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 18:36	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 18:36	WG1313581
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/21/2019 02:29	WG1314393
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 18:36	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 18:36	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 18:36	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 18:36	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 18:36	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 18:36	WG1313581
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/18/2019 18:36	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 18:36	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 18:36	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 18:36	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 18:36	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 18:36	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 18:36	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 18:36	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 18:36	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 18:36	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 18:36	WG1313581

JC 8/5/19

MW-9-071619

Collected date/time: 07/16/19 08:35

SAMPLE RESULTS - 07

L1119171

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 18:36	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 18:36	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 18:36	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 18:36	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 18:36	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 18:36	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 18:36	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 18:36	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 18:36	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 02:29	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 18:36	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 18:36	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 18:36	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 18:36	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 18:36	WG1313581
Trichloroethene	U		0.153	0.500	1	07/21/2019 02:29	WG1314393
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 18:36	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 18:36	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 18:36	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 18:36	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 18:36	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 18:36	WG1313581
Vinyl chloride	0.619		0.118	0.500	1	07/18/2019 18:36	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 18:36	WG1313581
(S) Toluene-d8	*108*			*80.0-120*		*07/18/2019 18:36*	WG1313581
(S) Toluene-d8	*109*			*80.0-120*		*07/21/2019 02:29*	WG1314393
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*07/18/2019 18:36*	WG1313581
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*07/21/2019 02:29*	WG1314393
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/18/2019 18:36*	WG1313581
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/21/2019 02:29*	WG1314393

JC 8/5/19

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	211000		2710	20000	1	07/22/2019 13:16	WG1315264

Sample Narrative:

L1119171-08 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	19900		51.9	1000	1	07/17/2019 20:21	WG1312677
Nitrate	1760		22.7	100	1	07/17/2019 20:21	WG1312677
Sulfate	67100		77.4	5000	1	07/17/2019 20:21	WG1312677

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1700		102	1000	1	07/18/2019 13:36	WG1313391

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2850		75.0	500	5	07/17/2019 20:48	WG1312768
Manganese	391		1.25	25.0	5	07/17/2019 20:48	WG1312768

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	152 J+	~~B~~	31.6	100	1	07/18/2019 19:19	WG1313748
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*07/18/2019 19:19*	WG1313748

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	72.4		0.287	0.678	1	07/23/2019 14:08	WG1315671
Ethane	U		0.296	1.29	1	07/23/2019 14:08	WG1315671
Ethene	U		0.422	1.27	1	07/23/2019 14:08	WG1315671

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.01 U	B J	1.05	25.0	1	07/18/2019 18:58	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 18:58	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 18:58	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 18:58	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 18:58	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 18:58	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 18:58	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 18:58	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 18:58	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 18:58	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 18:58	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 18:58	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 18:58	WG1313581

JC 8/5/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Chlorobenzene	U			0.140	0.500	1	07/18/2019 18:58	WG1313581
Chlorodibromomethane	U			0.128	0.500	1	07/18/2019 18:58	WG1313581
Chloroethane	U			0.141	2.50	1	07/18/2019 18:58	WG1313581
Chloroform	U			0.0860	0.500	1	07/18/2019 18:58	WG1313581
Chloromethane	U			0.153	1.25	1	07/18/2019 18:58	WG1313581
2-Chlorotoluene	U			0.111	0.500	1	07/18/2019 18:58	WG1313581
4-Chlorotoluene	U			0.0972	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	07/18/2019 18:58	WG1313581
1,2-Dibromoethane	U			0.193	0.500	1	07/18/2019 18:58	WG1313581
Dibromomethane	U			0.117	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dichlorobenzene	U			0.101	0.500	1	07/18/2019 18:58	WG1313581
1,3-Dichlorobenzene	U			0.130	0.500	1	07/18/2019 18:58	WG1313581
1,4-Dichlorobenzene	U			0.121	0.500	1	07/18/2019 18:58	WG1313581
Dichlorodifluoromethane	U			0.127	2.50	1	07/18/2019 18:58	WG1313581
1,1-Dichloroethane	1.43			0.114	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dichloroethane	0.271	J	J	0.108	0.500	1	07/18/2019 18:58	WG1313581
1,1-Dichloroethene	0.738			0.188	0.500	1	07/18/2019 18:58	WG1313581
cis-1,2-Dichloroethene	74.9			0.0933	0.500	1	07/18/2019 18:58	WG1313581
trans-1,2-Dichloroethene	0.217	J	J	0.152	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dichloropropane	0.746			0.190	0.500	1	07/18/2019 18:58	WG1313581
1,1-Dichloropropene	U			0.128	0.500	1	07/18/2019 18:58	WG1313581
1,3-Dichloropropane	U			0.147	1.00	1	07/18/2019 18:58	WG1313581
cis-1,3-Dichloropropene	U			0.0976	0.500	1	07/18/2019 18:58	WG1313581
trans-1,3-Dichloropropene	U			0.222	0.500	1	07/18/2019 18:58	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.257	5.00	1	07/18/2019 18:58	WG1313581
2,2-Dichloropropane	U			0.0929	0.500	1	07/18/2019 18:58	WG1313581
Di-isopropyl ether	U			0.0924	0.500	1	07/18/2019 18:58	WG1313581
Ethylbenzene	U			0.158	0.500	1	07/18/2019 18:58	WG1313581
Hexachloro-1,3-butadiene	U			0.157	1.00	1	07/18/2019 18:58	WG1313581
2-Hexanone	U			0.757	5.00	1	07/18/2019 18:58	WG1313581
n-Hexane	U			0.305	5.00	1	07/18/2019 18:58	WG1313581
Iodomethane	U			0.377	10.0	1	07/18/2019 18:58	WG1313581
Isopropylbenzene	U			0.126	0.500	1	07/18/2019 18:58	WG1313581
p-Isopropyltoluene	U			0.138	0.500	1	07/18/2019 18:58	WG1313581
2-Butanone (MEK)	U			1.28	5.00	1	07/18/2019 18:58	WG1313581
Methylene Chloride	U			1.07	2.50	1	07/18/2019 18:58	WG1313581
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	07/18/2019 18:58	WG1313581
Methyl tert-butyl ether	U			0.102	0.500	1	07/18/2019 18:58	WG1313581
Naphthalene	U			0.174	2.50	1	07/18/2019 18:58	WG1313581
n-Propylbenzene	U			0.162	0.500	1	07/18/2019 18:58	WG1313581
Styrene	U			0.117	0.500	1	07/18/2019 18:58	WG1313581
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	07/18/2019 18:58	WG1313581
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	07/18/2019 18:58	WG1313581
1,1,2-Trichlorotrifluoroethane	0.631			0.164	0.500	1	07/18/2019 18:58	WG1313581
Tetrachloroethene	134			0.199	0.500	1	07/18/2019 18:58	WG1313581
Toluene	U			0.412	0.500	1	07/18/2019 18:58	WG1313581
1,2,3-Trichlorobenzene	U			0.164	0.500	1	07/18/2019 18:58	WG1313581
1,2,4-Trichlorobenzene	U			0.355	0.500	1	07/18/2019 18:58	WG1313581
1,1,1-Trichloroethane	0.302	J	J	0.0940	0.500	1	07/18/2019 18:58	WG1313581
1,1,2-Trichloroethane	U			0.186	0.500	1	07/18/2019 18:58	WG1313581
Trichloroethene	40.1			0.153	0.500	1	07/18/2019 18:58	WG1313581
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	07/18/2019 18:58	WG1313581
1,2,3-Trichloropropane	U			0.247	2.50	1	07/18/2019 18:58	WG1313581
1,2,4-Trimethylbenzene	U			0.123	0.500	1	07/18/2019 18:58	WG1313581
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	07/18/2019 18:58	WG1313581
1,3,5-Trimethylbenzene	U			0.124	0.500	1	07/18/2019 18:58	WG1313581

JC 8/5/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/18/2019 18:58	WG1313581
Vinyl chloride	1.01		0.118	0.500	1	07/18/2019 18:58	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 18:58	WG1313581
(S) Toluene-d8	*110*			*80.0-120*		*07/18/2019 18:58*	WG1313581
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/18/2019 18:58*	WG1313581
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/18/2019 18:58*	WG1313581

JC 8/5/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/18/2019 19:41	WG1313748
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*07/18/2019 19:41*	WG1313748

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.65 U	B J	1.05	25.0	1	07/18/2019 19:19	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 19:19	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 19:19	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 19:19	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 19:19	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 19:19	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 19:19	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 19:19	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 19:19	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 19:19	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 19:19	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 19:19	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 19:19	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 19:19	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 19:19	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 19:19	WG1313581
Chloroform	0.152 J	J	0.0860	0.500	1	07/18/2019 19:19	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 19:19	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 19:19	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 19:19	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 19:19	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 19:19	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 19:19	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 19:19	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 19:19	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 19:19	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 19:19	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 19:19	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 19:19	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 19:19	WG1313581
cis-1,2-Dichloroethene	0.131 J	J	0.0933	0.500	1	07/21/2019 03:08	WG1314393
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 19:19	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 19:19	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 19:19	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 19:19	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 19:19	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 19:19	WG1313581
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/18/2019 19:19	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 19:19	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 19:19	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 19:19	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 19:19	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 19:19	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 19:19	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 19:19	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 19:19	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 19:19	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 19:19	WG1313581

JC 8/5/19

R-MW5-071619

Collected date/time: 07/16/19 10:10

SAMPLE RESULTS - 09

L1119171

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 19:19	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 19:19	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 19:19	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 19:19	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 19:19	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 19:19	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 19:19	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 19:19	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 19:19	WG1313581
Tetrachloroethene	0.736		0.199	0.500	1	07/21/2019 03:08	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 19:19	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 19:19	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 19:19	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 19:19	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 19:19	WG1313581
Trichloroethene	U		0.153	0.500	1	07/21/2019 03:08	WG1314393
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 19:19	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 19:19	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 19:19	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 19:19	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 19:19	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 19:19	WG1313581
Vinyl chloride	U		0.118	0.500	1	07/18/2019 19:19	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 19:19	WG1313581
(S) Toluene-d8	*108*			*80.0-120*		*07/18/2019 19:19*	WG1313581
(S) Toluene-d8	*112*			*80.0-120*		*07/21/2019 03:08*	WG1314393
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/18/2019 19:19*	WG1313581
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*07/21/2019 03:08*	WG1314393
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/18/2019 19:19*	WG1313581
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/21/2019 03:08*	WG1314393

JC 8/5/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/18/2019 15:59	WG1313748
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*07/18/2019 15:59*	WG1313748

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/18/2019 13:20	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 13:20	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 13:20	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 13:20	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 13:20	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 13:20	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 13:20	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 13:20	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 13:20	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 13:20	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 13:20	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 13:20	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 13:20	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 13:20	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 13:20	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 13:20	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 13:20	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 13:20	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 13:20	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 13:20	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 13:20	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 13:20	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 13:20	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 13:20	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 13:20	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 13:20	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 13:20	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 13:20	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 13:20	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 13:20	WG1313581
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/18/2019 13:20	WG1313581
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 13:20	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 13:20	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 13:20	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 13:20	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 13:20	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 13:20	WG1313581
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/18/2019 13:20	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 13:20	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 13:20	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 13:20	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 13:20	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 13:20	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 13:20	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 13:20	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 13:20	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 13:20	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 13:20	WG1313581

JC 8/5/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 13:20	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 13:20	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 13:20	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 13:20	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 13:20	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 13:20	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 13:20	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 13:20	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 13:20	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/18/2019 13:20	WG1313581
Toluene	U		0.412	0.500	1	07/18/2019 13:20	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 13:20	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 13:20	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 13:20	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 13:20	WG1313581
Trichloroethene	U		0.153	0.500	1	07/18/2019 13:20	WG1313581
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/18/2019 13:20	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 13:20	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 13:20	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 13:20	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 13:20	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 13:20	WG1313581
Vinyl chloride	U		0.118	0.500	1	07/18/2019 13:20	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 13:20	WG1313581
(S) Toluene-d8	*110*			*80.0-120*		*07/18/2019 13:20*	WG1313581
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/18/2019 13:20*	WG1313581
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/18/2019 13:20*	WG1313581

JC 8/5/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW116-071719

Collected date/time: 07/17/19 10:15

SAMPLE RESULTS - 01

L1119726

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.28	J	J J0	1.05	25.0	1	07/20/2019 13:06	WG1314770
Acrylonitrile	U			0.873	5.00	1	07/20/2019 13:06	WG1314770
Benzene	U			0.0896	0.500	1	07/20/2019 13:06	WG1314770
Bromobenzene	U			0.133	0.500	1	07/20/2019 13:06	WG1314770
Bromodichloromethane	U			0.0800	0.500	1	07/20/2019 13:06	WG1314770
Bromochloromethane	U			0.145	0.500	1	07/20/2019 13:06	WG1314770
Bromoform	U			0.186	0.500	1	07/20/2019 13:06	WG1314770
Bromomethane	U			0.157	2.50	1	07/20/2019 13:06	WG1314770
n-Butylbenzene	U			0.143	0.500	1	07/20/2019 13:06	WG1314770
sec-Butylbenzene	U			0.134	0.500	1	07/20/2019 13:06	WG1314770
tert-Butylbenzene	U			0.183	0.500	1	07/20/2019 13:06	WG1314770
Carbon disulfide	U			0.101	0.500	1	07/20/2019 13:06	WG1314770
Carbon tetrachloride	U			0.159	0.500	1	07/20/2019 13:06	WG1314770
Chlorobenzene	U			0.140	0.500	1	07/20/2019 13:06	WG1314770
Chlorodibromomethane	U			0.128	0.500	1	07/20/2019 13:06	WG1314770
Chloroethane	U			0.141	2.50	1	07/20/2019 13:06	WG1314770
Chloroform	U			0.0860	0.500	1	07/20/2019 13:06	WG1314770
Chloromethane	U			0.153	1.25	1	07/20/2019 13:06	WG1314770
2-Chlorotoluene	U			0.111	0.500	1	07/20/2019 13:06	WG1314770
4-Chlorotoluene	U			0.0972	0.500	1	07/20/2019 13:06	WG1314770
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	07/20/2019 13:06	WG1314770
1,2-Dibromoethane	U			0.193	0.500	1	07/20/2019 13:06	WG1314770
Dibromomethane	U			0.117	0.500	1	07/20/2019 13:06	WG1314770
1,2-Dichlorobenzene	U			0.101	0.500	1	07/20/2019 13:06	WG1314770
1,3-Dichlorobenzene	U			0.130	0.500	1	07/20/2019 13:06	WG1314770
1,4-Dichlorobenzene	U			0.121	0.500	1	07/20/2019 13:06	WG1314770
Dichlorodifluoromethane	U			0.127	2.50	1	07/20/2019 13:06	WG1314770
1,1-Dichloroethane	U			0.114	0.500	1	07/20/2019 13:06	WG1314770
1,2-Dichloroethane	U			0.108	0.500	1	07/20/2019 13:06	WG1314770
1,1-Dichloroethene	U			0.188	0.500	1	07/20/2019 13:06	WG1314770
cis-1,2-Dichloroethene	U			0.0933	0.500	1	07/20/2019 13:06	WG1314770
trans-1,2-Dichloroethene	U			0.152	0.500	1	07/20/2019 13:06	WG1314770
1,2-Dichloropropane	U			0.190	0.500	1	07/20/2019 13:06	WG1314770
1,1-Dichloropropene	U			0.128	0.500	1	07/20/2019 13:06	WG1314770
1,3-Dichloropropane	U			0.147	1.00	1	07/20/2019 13:06	WG1314770
cis-1,3-Dichloropropene	U			0.0976	0.500	1	07/20/2019 13:06	WG1314770
trans-1,3-Dichloropropene	U			0.222	0.500	1	07/20/2019 13:06	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.257	5.00	1	07/20/2019 13:06	WG1314770
2,2-Dichloropropane	U			0.0929	0.500	1	07/20/2019 13:06	WG1314770
Di-isopropyl ether	U			0.0924	0.500	1	07/20/2019 13:06	WG1314770
Ethylbenzene	U			0.158	0.500	1	07/20/2019 13:06	WG1314770
Hexachloro-1,3-butadiene	U			0.157	1.00	1	07/20/2019 13:06	WG1314770
2-Hexanone	U			0.757	5.00	1	07/20/2019 13:06	WG1314770
n-Hexane	U			0.305	5.00	1	07/20/2019 13:06	WG1314770
Iodomethane	U	UJ	J0	0.377	10.0	1	07/20/2019 13:06	WG1314770
Isopropylbenzene	U			0.126	0.500	1	07/20/2019 13:06	WG1314770
p-Isopropyltoluene	U			0.138	0.500	1	07/20/2019 13:06	WG1314770
2-Butanone (MEK)	U			1.28	5.00	1	07/20/2019 13:06	WG1314770
Methylene Chloride	U			1.07	2.50	1	07/20/2019 13:06	WG1314770
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	07/20/2019 13:06	WG1314770
Methyl tert-butyl ether	U			0.102	0.500	1	07/20/2019 13:06	WG1314770
Naphthalene	U	UJ	J0	0.174	2.50	1	07/20/2019 13:06	WG1314770
n-Propylbenzene	U			0.162	0.500	1	07/20/2019 13:06	WG1314770
Styrene	U			0.117	0.500	1	07/20/2019 13:06	WG1314770
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	07/20/2019 13:06	WG1314770
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	07/20/2019 13:06	WG1314770

JC 8/8/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 13:06	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 13:06	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 13:06	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 13:06	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 13:06	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 13:06	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 13:06	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 13:06	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 13:06	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 13:06	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 13:06	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 13:06	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 13:06	WG1314770
Vinyl acetate	U		0.645	5.00	1	07/20/2019 13:06	WG1314770
Vinyl chloride	U		0.118	0.500	1	07/20/2019 13:06	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 13:06	WG1314770
(S) Toluene-d8	*98.9*			*80.0-120*		*07/20/2019 13:06*	WG1314770
(S) 4-Bromofluorobenzene	*91.0*			*77.0-126*		*07/20/2019 13:06*	WG1314770
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*07/20/2019 13:06*	WG1314770

JC 8/8/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	139000		2710	20000	1	07/23/2019 21:05	WG1315387

Sample Narrative:

L1119726-02 WG1315387: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	152000		260	5000	5	07/18/2019 13:35	WG1313370
Nitrate	992		22.7	100	1	07/18/2019 13:19	WG1313370
Sulfate	15100		77.4	5000	1	07/18/2019 13:19	WG1313370

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2380		102	1000	1	07/19/2019 12:56	WG1314078

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	786		15.0	100	1	07/18/2019 19:27	WG1313694
Manganese	79.9		0.250	5.00	1	07/18/2019 19:27	WG1313694

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	2560 J+		31.6	100	1	07/18/2019 21:09	WG1313748
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*07/18/2019 21:09*	WG1313748

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	1130		0.287	0.678	1	07/24/2019 13:37	WG1316403
Ethane	9.87		0.296	1.29	1	07/24/2019 13:37	WG1316403
Ethene	27.2		0.422	1.27	1	07/24/2019 13:37	WG1316403

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.54 J	J J0	1.05	25.0	1	07/20/2019 13:27	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 13:27	WG1314770
Benzene	0.172 J	J	0.0896	0.500	1	07/20/2019 13:27	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 13:27	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 13:27	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 13:27	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 13:27	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 13:27	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 13:27	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 13:27	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 13:27	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 13:27	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 13:27	WG1314770

JC 8/8/19

MW113-071719
Collected date/time: 07/17/19 10:20

SAMPLE RESULTS - 02

L1119726

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 13:27	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 13:27	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 13:27	WG1314770
Chloroform	0.226 J	J	0.0860	0.500	1	07/20/2019 13:27	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 13:27	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 13:27	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 13:27	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 13:27	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 13:27	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 13:27	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 13:27	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 13:27	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 13:27	WG1314770
1,1-Dichloroethene	3.40		0.188	0.500	1	07/20/2019 13:27	WG1314770
cis-1,2-Dichloroethene	4940		9.33	50.0	100	07/24/2019 22:33	WG1316884
trans-1,2-Dichloroethene	13.1		0.152	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 13:27	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 13:27	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 13:27	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 13:27	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 13:27	WG1314770
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/20/2019 13:27	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 13:27	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 13:27	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 13:27	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 13:27	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 13:27	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 13:27	WG1314770
Iodomethane	U UJ	J0	0.377	10.0	1	07/20/2019 13:27	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 13:27	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 13:27	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 13:27	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 13:27	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 13:27	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 13:27	WG1314770
Naphthalene	U UJ	J0	0.174	2.50	1	07/20/2019 13:27	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 13:27	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 13:27	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 13:27	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 13:27	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 13:27	WG1314770
Tetrachloroethene	3.14		0.199	0.500	1	07/20/2019 13:27	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 13:27	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 13:27	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 13:27	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 13:27	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 13:27	WG1314770
Trichloroethene	20.4		0.153	0.500	1	07/20/2019 13:27	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 13:27	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 13:27	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 13:27	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 13:27	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 13:27	WG1314770

JC 8/8/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 13:27	WG1314770
Vinyl chloride	103		0.118	0.500	1	07/20/2019 13:27	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 13:27	WG1314770
(S) Toluene-d8	*99.7*			*80.0-120*		*07/20/2019 13:27*	WG1314770
(S) Toluene-d8	*106*			*80.0-120*		*07/24/2019 22:33*	WG1316884
(S) 4-Bromofluorobenzene	*92.4*			*77.0-126*		*07/20/2019 13:27*	WG1314770
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*07/24/2019 22:33*	WG1316884
(S) 1,2-Dichloroethane-d4	*93.1*			*70.0-130*		*07/20/2019 13:27*	WG1314770
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/24/2019 22:33*	WG1316884

JC 8/8/19

MW115-071719
Collected date/time: 07/17/19 11:35

SAMPLE RESULTS - 03

L1119726

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.55 J	J J0	1.05	25.0	1	07/20/2019 13:47	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 13:47	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 13:47	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 13:47	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 13:47	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 13:47	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 13:47	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 13:47	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 13:47	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 13:47	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 13:47	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 13:47	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 13:47	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 13:47	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 13:47	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 13:47	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 13:47	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 13:47	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 13:47	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 13:47	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 13:47	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 13:47	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 13:47	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 13:47	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 13:47	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 13:47	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 13:47	WG1314770
cis-1,2-Dichloroethene	0.787		0.0933	0.500	1	07/24/2019 19:53	WG1316884
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 13:47	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 13:47	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 13:47	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 13:47	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 13:47	WG1314770
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/20/2019 13:47	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 13:47	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 13:47	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 13:47	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 13:47	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 13:47	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 13:47	WG1314770
Iodomethane	U UJ	J0	0.377	10.0	1	07/20/2019 13:47	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 13:47	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 13:47	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 13:47	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 13:47	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 13:47	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 13:47	WG1314770
Naphthalene	U UJ	J0	0.174	2.50	1	07/20/2019 13:47	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 13:47	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 13:47	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 13:47	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 13:47	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 13:47	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 13:47	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 13:47	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 13:47	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 13:47	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 13:47	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 13:47	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 13:47	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 13:47	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 13:47	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 13:47	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 13:47	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 13:47	WG1314770
Vinyl acetate	U		0.645	5.00	1	07/20/2019 13:47	WG1314770
Vinyl chloride	24.3		0.118	0.500	1	07/20/2019 13:47	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 13:47	WG1314770
(S) Toluene-d8	*99.6*			*80.0-120*		*07/20/2019 13:47*	WG1314770
(S) Toluene-d8	*107*			*80.0-120*		*07/24/2019 19:53*	WG1316884
(S) 4-Bromofluorobenzene	*89.4*			*77.0-126*		*07/20/2019 13:47*	WG1314770
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*07/24/2019 19:53*	WG1316884
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*07/20/2019 13:47*	WG1314770
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/24/2019 19:53*	WG1316884

JC 8/8/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	314000		2710	20000	1	07/23/2019 21:12	WG1315387

Sample Narrative:

L1119726-04 WG1315387: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	34900		51.9	1000	1	07/18/2019 13:51	WG1313370
Nitrate	U		22.7	100	1	07/18/2019 13:51	WG1313370
Sulfate	7660		77.4	5000	1	07/18/2019 13:51	WG1313370

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3380		102	1000	1	07/19/2019 14:15	WG1314078

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2290		30.0	200	2	07/18/2019 20:05	WG1313694
Manganese	945		1.25	25.0	5	07/18/2019 20:09	WG1313694

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	37.8 U	B J	31.6	100	1	07/18/2019 21:32	WG1313748
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*07/18/2019 21:32*	WG1313748

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1830		0.287	0.678	1	07/24/2019 13:43	WG1316403
Ethane	U		0.296	1.29	1	07/24/2019 13:43	WG1316403
Ethene	U		0.422	1.27	1	07/24/2019 13:43	WG1316403

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.18 J	J J0	1.05	25.0	1	07/20/2019 14:08	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 14:08	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 14:08	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 14:08	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 14:08	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 14:08	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 14:08	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 14:08	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 14:08	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 14:08	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 14:08	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 14:08	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 14:08	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 14:08	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 14:08	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 14:08	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 14:08	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 14:08	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 14:08	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 14:08	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 14:08	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 14:08	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 14:08	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 14:08	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 14:08	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 14:08	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 14:08	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 14:08	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 14:08	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 14:08	WG1314770
cis-1,2-Dichloroethene	0.891		0.0933	0.500	1	07/24/2019 20:14	WG1316884
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 14:08	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 14:08	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 14:08	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 14:08	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 14:08	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 14:08	WG1314770
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/20/2019 14:08	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 14:08	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 14:08	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 14:08	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 14:08	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 14:08	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 14:08	WG1314770
Iodomethane	U UJ	J0	0.377	10.0	1	07/20/2019 14:08	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 14:08	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 14:08	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 14:08	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 14:08	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 14:08	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 14:08	WG1314770
Naphthalene	U UJ	J0	0.174	2.50	1	07/20/2019 14:08	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 14:08	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 14:08	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 14:08	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 14:08	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 14:08	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 14:08	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 14:08	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 14:08	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 14:08	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 14:08	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 14:08	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 14:08	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 14:08	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 14:08	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 14:08	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 14:08	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 14:08	WG1314770

JC 8/8/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 14:08	WG1314770
Vinyl chloride	0.265 J	J	0.118	0.500	1	07/20/2019 14:08	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 14:08	WG1314770
(S) Toluene-d8	*96.8*			*80.0-120*		*07/20/2019 14:08*	WG1314770
(S) Toluene-d8	*108*			*80.0-120*		*07/24/2019 20:14*	WG1316884
(S) 4-Bromofluorobenzene	*90.7*			*77.0-126*		*07/20/2019 14:08*	WG1314770
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/24/2019 20:14*	WG1316884
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/20/2019 14:08*	WG1314770
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/24/2019 20:14*	WG1316884

JC 8/8/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	240000		2710	20000	1	07/23/2019 21:19	WG1315387

Sample Narrative:

L1119726-05 WG1315387: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	10400		51.9	1000	1	07/18/2019 14:57	WG1313370
Nitrate	1940		22.7	100	1	07/18/2019 14:57	WG1313370
Sulfate	59000		77.4	5000	1	07/18/2019 14:57	WG1313370

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4360		102	1000	1	07/19/2019 14:30	WG1314078

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	691		15.0	100	1	07/18/2019 19:36	WG1313694
Manganese	97.9		0.250	5.00	1	07/18/2019 19:36	WG1313694

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	112 J+	B	31.6	100	1	07/18/2019 21:54	WG1313748
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*07/18/2019 21:54*	WG1313748

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	62.2		0.287	0.678	1	07/24/2019 13:45	WG1316403
Ethane	U		0.296	1.29	1	07/24/2019 13:45	WG1316403
Ethene	U		0.422	1.27	1	07/24/2019 13:45	WG1316403

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.06 J	J J0	1.05	25.0	1	07/20/2019 14:28	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 14:28	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 14:28	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 14:28	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 14:28	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 14:28	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 14:28	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 14:28	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 14:28	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 14:28	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 14:28	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 14:28	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 14:28	WG1314770

JC 8/8/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 14:28	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 14:28	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 14:28	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 14:28	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 14:28	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 14:28	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 14:28	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 14:28	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 14:28	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 14:28	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 14:28	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 14:28	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 14:28	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 14:28	WG1314770
cis-1,2-Dichloroethene	19.3		0.0933	0.500	1	07/20/2019 14:28	WG1314770
trans-1,2-Dichloroethene	0.262 J	J	0.152	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 14:28	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 14:28	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 14:28	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 14:28	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 14:28	WG1314770
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/20/2019 14:28	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 14:28	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 14:28	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 14:28	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 14:28	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 14:28	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 14:28	WG1314770
Iodomethane	U UJ	J0	0.377	10.0	1	07/20/2019 14:28	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 14:28	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 14:28	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 14:28	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 14:28	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 14:28	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 14:28	WG1314770
Naphthalene	U UJ	J0	0.174	2.50	1	07/20/2019 14:28	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 14:28	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 14:28	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 14:28	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 14:28	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 14:28	WG1314770
Tetrachloroethene	169		0.199	0.500	1	07/20/2019 14:28	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 14:28	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 14:28	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 14:28	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 14:28	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 14:28	WG1314770
Trichloroethene	28.9		0.153	0.500	1	07/20/2019 14:28	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 14:28	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 14:28	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 14:28	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 14:28	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 14:28	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 14:28	WG1314770
Vinyl chloride	U		0.118	0.500	1	07/20/2019 14:28	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 14:28	WG1314770
(S) Toluene-d8	*101*			*80.0-120*		*07/20/2019 14:28*	WG1314770
(S) 4-Bromofluorobenzene	*92.8*			*77.0-126*		*07/20/2019 14:28*	WG1314770
(S) 1,2-Dichloroethane-d4	*98.7*			*70.0-130*		*07/20/2019 14:28*	WG1314770

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Collected date/time: 07/17/19 16:00

SAMPLE RESULTS - 06

L1119726

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 14:10	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/24/2019 14:10*	WG1316734

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/20/2019 12:05	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 12:05	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 12:05	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 12:05	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 12:05	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 12:05	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 12:05	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 12:05	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 12:05	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 12:05	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 12:05	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 12:05	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 12:05	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 12:05	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 12:05	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 12:05	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 12:05	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 12:05	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 12:05	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 12:05	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 12:05	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 12:05	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 12:05	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 12:05	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 12:05	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 12:05	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 12:05	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 12:05	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 12:05	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 12:05	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 12:05	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 12:05	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 12:05	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 12:05	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 12:05	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 12:05	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 12:05	WG1314770
trans-1,4-Dichloro-2-butene	U	J0	0.257	5.00	1	07/20/2019 12:05	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 12:05	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 12:05	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 12:05	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 12:05	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 12:05	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 12:05	WG1314770
Iodomethane	U	J0	0.377	10.0	1	07/20/2019 12:05	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 12:05	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 12:05	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 12:05	WG1314770

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Collected date/time: 07/17/19 16:00

SAMPLE RESULTS - 06

L1119726

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	07/20/2019 12:05	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 12:05	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 12:05	WG1314770
Naphthalene	U	J0	0.174	2.50	1	07/20/2019 12:05	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 12:05	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 12:05	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 12:05	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 12:05	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 12:05	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 12:05	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 12:05	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 12:05	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 12:05	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 12:05	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 12:05	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 12:05	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 12:05	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 12:05	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 12:05	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 12:05	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 12:05	WG1314770
Vinyl acetate	U		0.645	5.00	1	07/20/2019 12:05	WG1314770
Vinyl chloride	U		0.118	0.500	1	07/20/2019 12:05	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 12:05	WG1314770
(S) Toluene-d8	*98.1*			*80.0-120*		*07/20/2019 12:05*	WG1314770
(S) 4-Bromofluorobenzene	*94.1*			*77.0-126*		*07/20/2019 12:05*	WG1314770
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*07/20/2019 12:05*	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.96	UJ J J0	1.05	25.0	1	07/20/2019 15:50	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 15:50	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 15:50	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 15:50	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 15:50	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 15:50	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 15:50	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 15:50	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 15:50	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 15:50	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 15:50	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 15:50	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 15:50	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 15:50	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 15:50	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 15:50	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 15:50	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 15:50	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 15:50	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 15:50	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 15:50	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 15:50	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 15:50	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 15:50	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 15:50	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 15:50	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 15:50	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 15:50	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 15:50	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 15:50	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 15:50	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 15:50	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 15:50	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/20/2019 15:50	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 15:50	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 15:50	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 15:50	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 15:50	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 15:50	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 15:50	WG1314770
Iodomethane	U	UJ J0	0.377	10.0	1	07/20/2019 15:50	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 15:50	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 15:50	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 15:50	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 15:50	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 15:50	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 15:50	WG1314770
Naphthalene	U	UJ J0	0.174	2.50	1	07/20/2019 15:50	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 15:50	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 15:50	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 15:50	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 15:50	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 15:50	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 15:50	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 15:50	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 15:50	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 15:50	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 15:50	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 15:50	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 15:50	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 15:50	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 15:50	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 15:50	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 15:50	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 15:50	WG1314770
Vinyl acetate	U		0.645	5.00	1	07/20/2019 15:50	WG1314770
Vinyl chloride	U		0.118	0.500	1	07/20/2019 15:50	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 15:50	WG1314770
(S) Toluene-d8	*101*			*80.0-120*		*07/20/2019 15:50*	WG1314770
(S) 4-Bromofluorobenzene	*93.0*			*77.0-126*		*07/20/2019 15:50*	WG1314770
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*07/20/2019 15:50*	WG1314770

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/23/2019 16:47	WG1316070
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*07/23/2019 16:47*	WG1316070

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.98 UJ	J J0	1.05	25.0	1	07/20/2019 16:10	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 16:10	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 16:10	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 16:10	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 16:10	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 16:10	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 16:10	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 16:10	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 16:10	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 16:10	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 16:10	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 16:10	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 16:10	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 16:10	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 16:10	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 16:10	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 16:10	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 16:10	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 16:10	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 16:10	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 16:10	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 16:10	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 16:10	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 16:10	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 16:10	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 16:10	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 16:10	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 16:10	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 16:10	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 16:10	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 16:10	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 16:10	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 16:10	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 16:10	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 16:10	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 16:10	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 16:10	WG1314770
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/20/2019 16:10	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 16:10	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 16:10	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 16:10	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 16:10	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 16:10	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 16:10	WG1314770
Iodomethane	U UJ	J0	0.377	10.0	1	07/20/2019 16:10	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 16:10	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 16:10	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 16:10	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	07/20/2019 16:10	WG1314770
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	07/20/2019 16:10	WG1314770
Methyl tert-butyl ether	U			0.102	0.500	1	07/20/2019 16:10	WG1314770
Naphthalene	U	UJ	J0	0.174	2.50	1	07/20/2019 16:10	WG1314770
n-Propylbenzene	U			0.162	0.500	1	07/20/2019 16:10	WG1314770
Styrene	U			0.117	0.500	1	07/20/2019 16:10	WG1314770
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	07/20/2019 16:10	WG1314770
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	07/20/2019 16:10	WG1314770
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	07/20/2019 16:10	WG1314770
Tetrachloroethene	U			0.199	0.500	1	07/20/2019 16:10	WG1314770
Toluene	U			0.412	0.500	1	07/20/2019 16:10	WG1314770
1,2,3-Trichlorobenzene	U			0.164	0.500	1	07/20/2019 16:10	WG1314770
1,2,4-Trichlorobenzene	U			0.355	0.500	1	07/20/2019 16:10	WG1314770
1,1,1-Trichloroethane	U			0.0940	0.500	1	07/20/2019 16:10	WG1314770
1,1,2-Trichloroethane	U			0.186	0.500	1	07/20/2019 16:10	WG1314770
Trichloroethene	U			0.153	0.500	1	07/20/2019 16:10	WG1314770
Trichlorofluoromethane	U			0.130	2.50	1	07/20/2019 16:10	WG1314770
1,2,3-Trichloropropane	U			0.247	2.50	1	07/20/2019 16:10	WG1314770
1,2,4-Trimethylbenzene	U			0.123	0.500	1	07/20/2019 16:10	WG1314770
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	07/20/2019 16:10	WG1314770
1,3,5-Trimethylbenzene	U			0.124	0.500	1	07/20/2019 16:10	WG1314770
Vinyl acetate	U			0.645	5.00	1	07/20/2019 16:10	WG1314770
Vinyl chloride	U			0.118	0.500	1	07/20/2019 16:10	WG1314770
Xylenes, Total	U			0.316	1.50	1	07/20/2019 16:10	WG1314770
(S) Toluene-d8	*99.9*				*80.0-120*		*07/20/2019 16:10*	WG1314770
(S) 4-Bromofluorobenzene	*93.9*				*77.0-126*		*07/20/2019 16:10*	WG1314770
(S) 1,2-Dichloroethane-d4	*101*				*70.0-130*		*07/20/2019 16:10*	WG1314770

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	310000		2710	20000	1	07/23/2019 13:14	WG1315391

Sample Narrative:

L1120206-03 WG1315391: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	18800		51.9	1000	1	07/19/2019 21:56	WG1314262
Nitrate	89.0 J	J	22.7	100	1	07/19/2019 21:56	WG1314262
Sulfate	29400		77.4	5000	1	07/19/2019 21:56	WG1314262

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	11700		102	1000	1	07/22/2019 15:59	WG1315213

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2400 J		15.0	100	1	07/21/2019 16:55	WG1314861
Manganese	724		0.250	5.00	1	07/21/2019 16:55	WG1314861

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	170 J+		31.6	100	1	07/23/2019 17:07	WG1316070
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*07/23/2019 17:07*	WG1316070

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	5830		0.287	0.678	1	07/24/2019 16:28	WG1316411
Ethane	U		0.296	1.29	1	07/24/2019 16:28	WG1316411
Ethene	202		0.422	1.27	1	07/24/2019 16:28	WG1316411

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.34 J	J J0	1.05	25.0	1	07/20/2019 16:31	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 16:31	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 16:31	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 16:31	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 16:31	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 16:31	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 16:31	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 16:31	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 16:31	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 16:31	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 16:31	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 16:31	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 16:31	WG1314770

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MW-912-071819
Collected date/time: 07/18/19 08:00

SAMPLE RESULTS - 03

L1120206

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 16:31	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 16:31	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 16:31	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 16:31	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 16:31	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 16:31	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 16:31	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 16:31	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 16:31	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 16:31	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 16:31	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 16:31	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 16:31	WG1314770
1,1-Dichloroethene	1.30		0.188	0.500	1	07/20/2019 16:31	WG1314770
cis-1,2-Dichloroethene	286		1.87	10.0	20	07/24/2019 23:00	WG1316884
trans-1,2-Dichloroethene	2.12		0.152	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 16:31	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 16:31	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 16:31	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 16:31	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 16:31	WG1314770
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/20/2019 16:31	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 16:31	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 16:31	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 16:31	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 16:31	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 16:31	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 16:31	WG1314770
Iodomethane	U UJ	J0	0.377	10.0	1	07/20/2019 16:31	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 16:31	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 16:31	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 16:31	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 16:31	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 16:31	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 16:31	WG1314770
Naphthalene	U UJ	J0	0.174	2.50	1	07/20/2019 16:31	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 16:31	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 16:31	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 16:31	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 16:31	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 16:31	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 16:31	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 16:31	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 16:31	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 16:31	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 16:31	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 16:31	WG1314770
Trichloroethene	4.72		0.153	0.500	1	07/20/2019 16:31	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 16:31	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 16:31	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 16:31	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 16:31	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 16:31	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 16:31	WG1314770
Vinyl chloride	425		2.36	10.0	20	07/24/2019 23:00	WG1316884
Xylenes, Total	U		0.316	1.50	1	07/20/2019 16:31	WG1314770
(S) Toluene-d8	*97.0*			*80.0-120*		*07/20/2019 16:31*	WG1314770
(S) Toluene-d8	*105*			*80.0-120*		*07/24/2019 23:00*	WG1316884
(S) 4-Bromofluorobenzene	*94.8*			*77.0-126*		*07/20/2019 16:31*	WG1314770
(S) 4-Bromofluorobenzene	*99.4*			*77.0-126*		*07/24/2019 23:00*	WG1316884
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*07/20/2019 16:31*	WG1314770
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/24/2019 23:00*	WG1316884

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	2320		31.6	100	1	07/23/2019 17:28	WG1316070
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*07/23/2019 17:28*	WG1316070

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	07/20/2019 16:51	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 16:51	WG1314770
Benzene	15.0		0.0896	0.500	1	07/20/2019 16:51	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 16:51	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 16:51	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 16:51	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 16:51	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 16:51	WG1314770
n-Butylbenzene	3.05		0.143	0.500	1	07/20/2019 16:51	WG1314770
sec-Butylbenzene	2.44		0.134	0.500	1	07/20/2019 16:51	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 16:51	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 16:51	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 16:51	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 16:51	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 16:51	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 16:51	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 16:51	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 16:51	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 16:51	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 16:51	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 16:51	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 16:51	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 16:51	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 16:51	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 16:51	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 16:51	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 16:51	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 16:51	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 16:51	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 16:51	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/24/2019 20:36	WG1316884
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 16:51	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 16:51	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 16:51	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 16:51	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 16:51	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 16:51	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/20/2019 16:51	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 16:51	WG1314770
Di-isopropyl ether	0.854		0.0924	0.500	1	07/20/2019 16:51	WG1314770
Ethylbenzene	187		0.158	0.500	1	07/20/2019 16:51	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 16:51	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 16:51	WG1314770
n-Hexane	12.2		0.305	5.00	1	07/20/2019 16:51	WG1314770
Iodomethane	U	UJ J0	0.377	10.0	1	07/20/2019 16:51	WG1314770
Isopropylbenzene	17.5		0.126	0.500	1	07/20/2019 16:51	WG1314770
p-Isopropyltoluene	0.698		0.138	0.500	1	07/20/2019 16:51	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 16:51	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 16:51	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 16:51	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 16:51	WG1314770
Naphthalene	104 J	J0	0.174	2.50	1	07/20/2019 16:51	WG1314770
n-Propylbenzene	43.2		0.162	0.500	1	07/20/2019 16:51	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 16:51	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 16:51	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 16:51	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 16:51	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 16:51	WG1314770
Toluene	3.37		0.412	0.500	1	07/20/2019 16:51	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 16:51	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 16:51	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 16:51	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 16:51	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 16:51	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 16:51	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 16:51	WG1314770
1,2,4-Trimethylbenzene	145		0.123	0.500	1	07/20/2019 16:51	WG1314770
1,2,3-Trimethylbenzene	82.3		0.0739	0.500	1	07/20/2019 16:51	WG1314770
1,3,5-Trimethylbenzene	11.6		0.124	0.500	1	07/20/2019 16:51	WG1314770
Vinyl acetate	U		0.645	5.00	1	07/20/2019 16:51	WG1314770
Vinyl chloride	0.242 J	J	0.118	0.500	1	07/20/2019 16:51	WG1314770
Xylenes, Total	131		0.316	1.50	1	07/20/2019 16:51	WG1314770
(S) Toluene-d8	*84.4*			*80.0-120*		*07/20/2019 16:51*	WG1314770
(S) Toluene-d8	*103*			*80.0-120*		*07/24/2019 20:36*	WG1316884
(S) 4-Bromofluorobenzene	*87.4*			*77.0-126*		*07/20/2019 16:51*	WG1314770
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/24/2019 20:36*	WG1316884
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*07/20/2019 16:51*	WG1314770
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*07/24/2019 20:36*	WG1316884

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2190		31.6	100	1	07/23/2019 17:48	WG1316070
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*78.0-120*		*07/23/2019 17:48*	WG1316070

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/20/2019 17:12	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 17:12	WG1314770
Benzene	15.5		0.0896	0.500	1	07/20/2019 17:12	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 17:12	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 17:12	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 17:12	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 17:12	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 17:12	WG1314770
n-Butylbenzene	3.10		0.143	0.500	1	07/20/2019 17:12	WG1314770
sec-Butylbenzene	2.39		0.134	0.500	1	07/20/2019 17:12	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 17:12	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 17:12	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 17:12	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 17:12	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 17:12	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 17:12	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 17:12	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 17:12	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 17:12	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 17:12	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 17:12	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 17:12	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 17:12	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 17:12	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 17:12	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 17:12	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 17:12	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 17:12	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 17:12	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 17:12	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 17:12	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 17:12	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 17:12	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 17:12	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 17:12	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 17:12	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 17:12	WG1314770
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/20/2019 17:12	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 17:12	WG1314770
Di-isopropyl ether	0.893		0.0924	0.500	1	07/20/2019 17:12	WG1314770
Ethylbenzene	141		1.58	5.00	10	07/24/2019 23:22	WG1316884
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 17:12	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 17:12	WG1314770
n-Hexane	12.6		0.305	5.00	1	07/20/2019 17:12	WG1314770
Iodomethane	U UJ	J0	0.377	10.0	1	07/20/2019 17:12	WG1314770
Isopropylbenzene	18.7		0.126	0.500	1	07/20/2019 17:12	WG1314770
p-Isopropyltoluene	0.760		0.138	0.500	1	07/20/2019 17:12	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 17:12	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 17:12	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 17:12	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 17:12	WG1314770
Naphthalene	115 J	J0	0.174	2.50	1	07/20/2019 17:12	WG1314770
n-Propylbenzene	46.2		0.162	0.500	1	07/20/2019 17:12	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 17:12	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 17:12	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 17:12	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 17:12	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 17:12	WG1314770
Toluene	3.71		0.412	0.500	1	07/20/2019 17:12	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 17:12	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 17:12	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 17:12	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 17:12	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 17:12	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 17:12	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 17:12	WG1314770
1,2,4-Trimethylbenzene	157		0.123	0.500	1	07/20/2019 17:12	WG1314770
1,2,3-Trimethylbenzene	88.3		0.0739	0.500	1	07/20/2019 17:12	WG1314770
1,3,5-Trimethylbenzene	12.8		0.124	0.500	1	07/20/2019 17:12	WG1314770
Vinyl acetate	U		0.645	5.00	1	07/20/2019 17:12	WG1314770
Vinyl chloride	U		0.118	0.500	1	07/20/2019 17:12	WG1314770
Xylenes, Total	149		0.316	1.50	1	07/20/2019 17:12	WG1314770
(S) Toluene-d8	*85.1*			*80.0-120*		*07/20/2019 17:12*	WG1314770
(S) Toluene-d8	*106*			*80.0-120*		*07/24/2019 23:22*	WG1316884
(S) 4-Bromofluorobenzene	*87.7*			*77.0-126*		*07/20/2019 17:12*	WG1314770
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/24/2019 23:22*	WG1316884
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*07/20/2019 17:12*	WG1314770
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/24/2019 23:22*	WG1316884

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SAMPLE RESULTS - 06

L1120206

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	307000		2710	20000	1	07/24/2019 16:46	WG1315970

Sample Narrative:

L1120206-06 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	19300		51.9	1000	1	07/19/2019 22:13	WG1314262
Nitrate	U		22.7	100	1	07/19/2019 22:13	WG1314262
Sulfate	30000		77.4	5000	1	07/19/2019 22:13	WG1314262

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	9560		102	1000	1	07/22/2019 16:13	WG1315213

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3800 J		15.0	100	1	07/21/2019 16:58	WG1314861
Manganese	750		0.250	5.00	1	07/21/2019 16:58	WG1314861

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	175 J+		31.6	100	1	07/23/2019 18:09	WG1316070
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*07/23/2019 18:09*	WG1316070

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	5450		0.287	0.678	1	07/24/2019 12:36	WG1316410
Ethane	U		0.296	1.29	1	07/24/2019 12:36	WG1316410
Ethene	191		0.422	1.27	1	07/24/2019 12:36	WG1316410

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.11 J	J J0	1.05	25.0	1	07/20/2019 17:32	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 17:32	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 17:32	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 17:32	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 17:32	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 17:32	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 17:32	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 17:32	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 17:32	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 17:32	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 17:32	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 17:32	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 17:32	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 17:32	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 17:32	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 17:32	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 17:32	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 17:32	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 17:32	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 17:32	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 17:32	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 17:32	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 17:32	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 17:32	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 17:32	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 17:32	WG1314770
1,1-Dichloroethene	1.33		0.188	0.500	1	07/20/2019 17:32	WG1314770
cis-1,2-Dichloroethene	219		1.87	10.0	20	07/24/2019 23:44	WG1316884
trans-1,2-Dichloroethene	2.49		0.152	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 17:32	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 17:32	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 17:32	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 17:32	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 17:32	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/20/2019 17:32	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 17:32	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 17:32	WG1314770
Ethylbenzene	U		3.16	10.0	20	07/24/2019 23:44	WG1316884
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 17:32	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 17:32	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 17:32	WG1314770
Iodomethane	U	UJ J0	0.377	10.0	1	07/20/2019 17:32	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 17:32	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 17:32	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 17:32	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 17:32	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 17:32	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 17:32	WG1314770
Naphthalene	5.94	J J	3.48	50.0	20	07/24/2019 23:44	WG1316884
n-Propylbenzene	U		3.24	10.0	20	07/24/2019 23:44	WG1316884
Styrene	U		0.117	0.500	1	07/20/2019 17:32	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 17:32	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 17:32	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 17:32	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 17:32	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 17:32	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 17:32	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 17:32	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 17:32	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 17:32	WG1314770
Trichloroethene	4.79		0.153	0.500	1	07/20/2019 17:32	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 17:32	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 17:32	WG1314770
1,2,4-Trimethylbenzene	U		2.46	10.0	20	07/24/2019 23:44	WG1316884
1,2,3-Trimethylbenzene	U		1.48	10.0	20	07/24/2019 23:44	WG1316884
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 17:32	WG1314770

JC 8/6/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 17:32	WG1314770
Vinyl chloride	446		2.36	10.0	20	07/24/2019 23:44	WG1316884
Xylenes, Total	U		6.32	30.0	20	07/24/2019 23:44	WG1316884
(S) Toluene-d8	*99.8*			*80.0-120*		*07/20/2019 17:32*	WG1314770
(S) Toluene-d8	*109*			*80.0-120*		*07/24/2019 23:44*	WG1316884
(S) 4-Bromofluorobenzene	*92.1*			*77.0-126*		*07/20/2019 17:32*	WG1314770
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*07/24/2019 23:44*	WG1316884
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*07/20/2019 17:32*	WG1314770
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/24/2019 23:44*	WG1316884

Sample Narrative:

L1120206-06 WG1314770, WG1316884: Not all compounds reportable at lower dilution.

L1120206-06 WG1314770, WG1316884: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	167000		2710	20000	1	07/24/2019 16:56	WG1315970

Sample Narrative:

L1120206-07 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	5580		51.9	1000	1	07/19/2019 22:31	WG1314262
Nitrate	U		22.7	100	1	07/19/2019 22:31	WG1314262
Sulfate	1830 J	J	77.4	5000	1	07/19/2019 22:31	WG1314262

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4760		102	1000	1	07/22/2019 16:25	WG1315213

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	7160		15.0	100	1	07/21/2019 17:01	WG1314861
Manganese	353		0.250	5.00	1	07/21/2019 17:01	WG1314861

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/23/2019 18:29	WG1316070
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*07/23/2019 18:29*	WG1316070

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	290		0.287	0.678	1	07/24/2019 12:40	WG1316410
Ethane	U		0.296	1.29	1	07/24/2019 12:40	WG1316410
Ethene	U		0.422	1.27	1	07/24/2019 12:40	WG1316410

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.74 J	J J0	1.05	25.0	1	07/20/2019 17:53	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 17:53	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 17:53	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 17:53	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 17:53	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 17:53	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 17:53	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 17:53	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 17:53	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 17:53	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 17:53	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 17:53	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 17:53	WG1314770

JC 8/6/19

MW-102-071819
Collected date/time: 07/18/19 12:15

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 17:53	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 17:53	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 17:53	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 17:53	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 17:53	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 17:53	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 17:53	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 17:53	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 17:53	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 17:53	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 17:53	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 17:53	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 17:53	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 17:53	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/24/2019 20:58	WG1316884
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 17:53	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 17:53	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 17:53	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 17:53	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 17:53	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/20/2019 17:53	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 17:53	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 17:53	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 17:53	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 17:53	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 17:53	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 17:53	WG1314770
Iodomethane	U	UJ J0	0.377	10.0	1	07/20/2019 17:53	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 17:53	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 17:53	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 17:53	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 17:53	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 17:53	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 17:53	WG1314770
Naphthalene	2.11	J J	0.174	2.50	1	07/24/2019 20:58	WG1316884
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 17:53	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 17:53	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 17:53	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 17:53	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 17:53	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 17:53	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 17:53	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 17:53	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 17:53	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 17:53	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 17:53	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 17:53	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 17:53	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 17:53	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 17:53	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 17:53	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 17:53	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 17:53	WG1314770
Vinyl chloride	U		0.118	0.500	1	07/24/2019 20:58	WG1316884
Xylenes, Total	U		0.316	1.50	1	07/20/2019 17:53	WG1314770
(S) Toluene-d8	*97.8*			*80.0-120*		*07/20/2019 17:53*	WG1314770
(S) Toluene-d8	*110*			*80.0-120*		*07/24/2019 20:58*	WG1316884
(S) 4-Bromofluorobenzene	*97.3*			*77.0-126*		*07/20/2019 17:53*	WG1314770
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*07/24/2019 20:58*	WG1316884
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*07/20/2019 17:53*	WG1314770
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/24/2019 20:58*	WG1316884

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	284000		2710	20000	1	07/24/2019 17:04	WG1315970

Sample Narrative:

L1120206-08 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	26500		51.9	1000	1	07/19/2019 23:24	WG1314262
Nitrate	U		22.7	100	1	07/19/2019 23:24	WG1314262
Sulfate	14100		77.4	5000	1	07/19/2019 23:24	WG1314262

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1610	B	102	1000	1	07/22/2019 16:38	WG1315213

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1300		15.0	100	1	07/21/2019 17:21	WG1314861
Manganese	694		0.250	5.00	1	07/21/2019 17:21	WG1314861

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/23/2019 18:50	WG1316070
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*07/23/2019 18:50*	WG1316070

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	139		0.287	0.678	1	07/24/2019 12:58	WG1316410
Ethane	U		0.296	1.29	1	07/24/2019 12:58	WG1316410
Ethene	U		0.422	1.27	1	07/24/2019 12:58	WG1316410

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.22 J	J J0	1.05	25.0	1	07/20/2019 18:13	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 18:13	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 18:13	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 18:13	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 18:13	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 18:13	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 18:13	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 18:13	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 18:13	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 18:13	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 18:13	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 18:13	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 18:13	WG1314770

JC 8/6/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	07/20/2019 18:13	WG1314770	
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 18:13	WG1314770	
Chloroethane	U		0.141	2.50	1	07/20/2019 18:13	WG1314770	
Chloroform	U		0.0860	0.500	1	07/20/2019 18:13	WG1314770	
Chloromethane	U		0.153	1.25	1	07/20/2019 18:13	WG1314770	
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 18:13	WG1314770	
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 18:13	WG1314770	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 18:13	WG1314770	
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 18:13	WG1314770	
Dibromomethane	U		0.117	0.500	1	07/20/2019 18:13	WG1314770	
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 18:13	WG1314770	
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 18:13	WG1314770	
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 18:13	WG1314770	
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 18:13	WG1314770	
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 18:13	WG1314770	
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 18:13	WG1314770	
1,1-Dichloroethene	0.609		0.188	0.500	1	07/20/2019 18:13	WG1314770	
cis-1,2-Dichloroethene	1.58		0.0933	0.500	1	07/20/2019 18:13	WG1314770	
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 18:13	WG1314770	
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 18:13	WG1314770	
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 18:13	WG1314770	
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 18:13	WG1314770	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 18:13	WG1314770	
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 18:13	WG1314770	
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/20/2019 18:13	WG1314770	
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 18:13	WG1314770	
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 18:13	WG1314770	
Ethylbenzene	U		0.158	0.500	1	07/20/2019 18:13	WG1314770	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 18:13	WG1314770	
2-Hexanone	U		0.757	5.00	1	07/20/2019 18:13	WG1314770	
n-Hexane	U		0.305	5.00	1	07/20/2019 18:13	WG1314770	
Iodomethane	U UJ	J0	0.377	10.0	1	07/20/2019 18:13	WG1314770	
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 18:13	WG1314770	
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 18:13	WG1314770	
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 18:13	WG1314770	
Methylene Chloride	U		1.07	2.50	1	07/20/2019 18:13	WG1314770	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 18:13	WG1314770	
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 18:13	WG1314770	
Naphthalene	0.353 J	J	0.174	2.50	1	07/24/2019 21:46	WG1316884	
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 18:13	WG1314770	
Styrene	U		0.117	0.500	1	07/20/2019 18:13	WG1314770	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 18:13	WG1314770	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 18:13	WG1314770	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 18:13	WG1314770	
Tetrachloroethene	0.264 J	J	0.199	0.500	1	07/20/2019 18:13	WG1314770	
Toluene	U		0.412	0.500	1	07/20/2019 18:13	WG1314770	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 18:13	WG1314770	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 18:13	WG1314770	
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 18:13	WG1314770	
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 18:13	WG1314770	
Trichloroethene	1.53		0.153	0.500	1	07/20/2019 18:13	WG1314770	
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 18:13	WG1314770	
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 18:13	WG1314770	JC 8/6/19
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 18:13	WG1314770	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 18:13	WG1314770	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 18:13	WG1314770	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 18:13	WG1314770
Vinyl chloride	U		0.118	0.500	1	07/20/2019 18:13	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 18:13	WG1314770
(S) Toluene-d8	*99.6*			*80.0-120*		*07/20/2019 18:13*	WG1314770
(S) Toluene-d8	*105*			*80.0-120*		*07/24/2019 21:46*	WG1316884
(S) 4-Bromofluorobenzene	*91.4*			*77.0-126*		*07/20/2019 18:13*	WG1314770
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/24/2019 21:46*	WG1316884
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/20/2019 18:13*	WG1314770
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/24/2019 21:46*	WG1316884

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	601000		2710	20000	1	07/24/2019 20:29	WG1315970

Sample Narrative:

L1120206-09 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	22300		51.9	1000	1	07/19/2019 23:41	WG1314262
Nitrate	U		22.7	100	1	07/19/2019 23:41	WG1314262
Sulfate	4340 J	J	77.4	5000	1	07/19/2019 23:41	WG1314262

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6940		102	1000	1	07/22/2019 17:30	WG1315213

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	12400		15.0	100	1	07/21/2019 17:24	WG1314861
Manganese	409		0.250	5.00	1	07/21/2019 17:24	WG1314861

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	15500		2.87	6.78	10	07/25/2019 11:17	WG1317135
Ethane	16.4		0.296	1.29	1	07/24/2019 13:08	WG1316410
Ethene	68.3		0.422	1.27	1	07/24/2019 13:08	WG1316410

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.24 J	J J0	1.05	25.0	1	07/20/2019 18:33	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 18:33	WG1314770
Benzene	12.2		0.0896	0.500	1	07/20/2019 18:33	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 18:33	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 18:33	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 18:33	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 18:33	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 18:33	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 18:33	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 18:33	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 18:33	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 18:33	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 18:33	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 18:33	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 18:33	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 18:33	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 18:33	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 18:33	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 18:33	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 18:33	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 18:33	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 18:33	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 18:33	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 18:33	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 18:33	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 18:33	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 18:33	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 18:33	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 18:33	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 18:33	WG1314770
cis-1,2-Dichloroethene	1.88		0.0933	0.500	1	07/20/2019 18:33	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 18:33	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 18:33	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 18:33	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 18:33	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 18:33	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 18:33	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/20/2019 18:33	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 18:33	WG1314770
Di-isopropyl ether	0.161	J J	0.0924	0.500	1	07/20/2019 18:33	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 18:33	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 18:33	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 18:33	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 18:33	WG1314770
Iodomethane	U	UJ J0	0.377	10.0	1	07/20/2019 18:33	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 18:33	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 18:33	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 18:33	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 18:33	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 18:33	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 18:33	WG1314770
Naphthalene	U	UJ J0	0.174	2.50	1	07/20/2019 18:33	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 18:33	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 18:33	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 18:33	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 18:33	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 18:33	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 18:33	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 18:33	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 18:33	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 18:33	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 18:33	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 18:33	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 18:33	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 18:33	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 18:33	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 18:33	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 18:33	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 18:33	WG1314770
Vinyl acetate	U		0.645	5.00	1	07/20/2019 18:33	WG1314770
Vinyl chloride	108		0.118	0.500	1	07/20/2019 18:33	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 18:33	WG1314770
(S) Toluene-d8	*99.6*			*80.0-120*		*07/20/2019 18:33*	WG1314770
(S) 4-Bromofluorobenzene	*94.9*			*77.0-126*		*07/20/2019 18:33*	WG1314770
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*07/20/2019 18:33*	WG1314770

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 14:34	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/24/2019 14:34*	WG1316734

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/20/2019 12:25	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 12:25	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 12:25	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 12:25	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 12:25	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 12:25	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 12:25	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 12:25	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 12:25	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 12:25	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 12:25	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 12:25	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 12:25	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 12:25	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 12:25	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 12:25	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 12:25	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 12:25	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 12:25	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 12:25	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 12:25	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 12:25	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 12:25	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 12:25	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 12:25	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 12:25	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 12:25	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 12:25	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 12:25	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 12:25	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 12:25	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 12:25	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 12:25	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 12:25	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 12:25	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 12:25	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 12:25	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/20/2019 12:25	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 12:25	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 12:25	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 12:25	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 12:25	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 12:25	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 12:25	WG1314770
Iodomethane	U	UJ J0	0.377	10.0	1	07/20/2019 12:25	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 12:25	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 12:25	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 12:25	WG1314770

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 12:25	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 12:25	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 12:25	WG1314770
Naphthalene	U	UJ J0	0.174	2.50	1	07/20/2019 12:25	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 12:25	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 12:25	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 12:25	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 12:25	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 12:25	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 12:25	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 12:25	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 12:25	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 12:25	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 12:25	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 12:25	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 12:25	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 12:25	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 12:25	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 12:25	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 12:25	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 12:25	WG1314770
Vinyl acetate	U		0.645	5.00	1	07/20/2019 12:25	WG1314770
Vinyl chloride	U		0.118	0.500	1	07/20/2019 12:25	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 12:25	WG1314770
(S) Toluene-d8	*101*			*80.0-120*		*07/20/2019 12:25*	WG1314770
(S) 4-Bromofluorobenzene	*92.9*			*77.0-126*		*07/20/2019 12:25*	WG1314770
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*07/20/2019 12:25*	WG1314770

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 15:46	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/24/2019 15:46*	WG1316734

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.89 J	J	1.05	25.0	1	07/23/2019 14:54	WG1315893
Acrylonitrile	U		0.873	5.00	1	07/23/2019 14:54	WG1315893
Benzene	U		0.0896	0.500	1	07/23/2019 14:54	WG1315893
Bromobenzene	U		0.133	0.500	1	07/23/2019 14:54	WG1315893
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 14:54	WG1315893
Bromochloromethane	U		0.145	0.500	1	07/23/2019 14:54	WG1315893
Bromoform	U		0.186	0.500	1	07/23/2019 14:54	WG1315893
Bromomethane	U UJ	J0	0.157	2.50	1	07/23/2019 14:54	WG1315893
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 14:54	WG1315893
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 14:54	WG1315893
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 14:54	WG1315893
Carbon disulfide	U		0.101	0.500	1	07/23/2019 14:54	WG1315893
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 14:54	WG1315893
Chlorobenzene	U		0.140	0.500	1	07/23/2019 14:54	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 14:54	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 14:54	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 14:54	WG1315893
Chloromethane	U UJ	J0	0.153	1.25	1	07/23/2019 14:54	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 14:54	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 14:54	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 14:54	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 14:54	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 14:54	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 14:54	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 14:54	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 14:54	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 14:54	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 14:54	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 14:54	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 14:54	WG1315893
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 14:54	WG1315893
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 14:54	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 14:54	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 14:54	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 14:54	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 14:54	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 14:54	WG1315893
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/23/2019 14:54	WG1315893
2,2-Dichloropropane	U UJ	J0	0.0929	0.500	1	07/23/2019 14:54	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 14:54	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 14:54	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 14:54	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 14:54	WG1315893
n-Hexane	U UJ	J0	0.305	5.00	1	07/23/2019 14:54	WG1315893
Iodomethane	U UJ	J0	0.377	10.0	1	07/23/2019 14:54	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 14:54	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 14:54	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 14:54	WG1315893

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/23/2019 14:54	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 14:54	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 14:54	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 14:54	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 14:54	WG1315893
Styrene	U	UJ J0	0.117	0.500	1	07/23/2019 14:54	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 14:54	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 14:54	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 14:54	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 14:54	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 14:54	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 14:54	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 14:54	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 14:54	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 14:54	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 14:54	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 14:54	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 14:54	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 14:54	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 14:54	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 14:54	WG1315893
Vinyl acetate	U	UJ J0	0.645	5.00	1	07/23/2019 14:54	WG1315893
Vinyl chloride	U		0.118	0.500	1	07/23/2019 14:54	WG1315893
Xylenes, Total	U		0.316	1.50	1	07/23/2019 14:54	WG1315893
(S) Toluene-d8	*102*			*80.0-120*		*07/23/2019 14:54*	WG1315893
(S) 4-Bromofluorobenzene	*97.5*			*77.0-126*		*07/23/2019 14:54*	WG1315893
(S) 1,2-Dichloroethane-d4	*93.8*			*70.0-130*		*07/23/2019 14:54*	WG1315893

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	330000		2710	20000	1	07/25/2019 23:04	WG1317440

Sample Narrative:

L1120698-02 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	26900		51.9	1000	1	07/20/2019 19:39	WG1314733
Nitrate	U		22.7	100	1	07/20/2019 19:39	WG1314733
Sulfate	19800		77.4	5000	1	07/20/2019 19:39	WG1314733

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4640		102	1000	1	07/23/2019 17:40	WG1315948

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	69200		15.0	100	1	07/23/2019 10:08	WG1315585
Manganese	1370		0.250	5.00	1	07/23/2019 10:08	WG1315585

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 16:10	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/24/2019 16:10*	WG1316734

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	222		0.287	0.678	1	07/25/2019 16:57	WG1317137
Ethane	U		0.296	1.29	1	07/25/2019 16:57	WG1317137
Ethene	5.86		0.422	1.27	1	07/25/2019 16:57	WG1317137

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.79 U	J	1.05	25.0	1	07/23/2019 15:16	WG1315893
Acrylonitrile	U		0.873	5.00	1	07/23/2019 15:16	WG1315893
Benzene	U		0.0896	0.500	1	07/23/2019 15:16	WG1315893
Bromobenzene	U		0.133	0.500	1	07/23/2019 15:16	WG1315893
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 15:16	WG1315893
Bromochloromethane	U		0.145	0.500	1	07/23/2019 15:16	WG1315893
Bromoform	U		0.186	0.500	1	07/23/2019 15:16	WG1315893
Bromomethane	U UJ	J0	0.157	2.50	1	07/23/2019 15:16	WG1315893
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 15:16	WG1315893
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 15:16	WG1315893
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 15:16	WG1315893
Carbon disulfide	0.437 J	J	0.101	0.500	1	07/23/2019 15:16	WG1315893
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 15:16	WG1315893

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 15:16	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 15:16	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 15:16	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 15:16	WG1315893
Chloromethane	U	UJ J0	0.153	1.25	1	07/23/2019 15:16	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 15:16	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 15:16	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 15:16	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 15:16	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 15:16	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 15:16	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 15:16	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 15:16	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 15:16	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 15:16	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 15:16	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 15:16	WG1315893
cis-1,2-Dichloroethene	0.290	J J	0.0933	0.500	1	07/23/2019 15:16	WG1315893
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 15:16	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 15:16	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 15:16	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 15:16	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 15:16	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 15:16	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/23/2019 15:16	WG1315893
2,2-Dichloropropane	U	UJ J0	0.0929	0.500	1	07/23/2019 15:16	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 15:16	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 15:16	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 15:16	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 15:16	WG1315893
n-Hexane	U	UJ J0	0.305	5.00	1	07/23/2019 15:16	WG1315893
Iodomethane	U	UJ J0	0.377	10.0	1	07/23/2019 15:16	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 15:16	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 15:16	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 15:16	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 15:16	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 15:16	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 15:16	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 15:16	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 15:16	WG1315893
Styrene	U	UJ J0	0.117	0.500	1	07/23/2019 15:16	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 15:16	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 15:16	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 15:16	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 15:16	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 15:16	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 15:16	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 15:16	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 15:16	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 15:16	WG1315893
Trichloroethene	0.177	J J	0.153	0.500	1	07/23/2019 15:16	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 15:16	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 15:16	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 15:16	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 15:16	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 15:16	WG1315893

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	07/23/2019 15:16	WG1315893
Vinyl chloride	1.24		0.118	0.500	1	07/23/2019 15:16	WG1315893
Xylenes, Total	U		0.316	1.50	1	07/23/2019 15:16	WG1315893
(S) Toluene-d8	*95.3*			*80.0-120*		*07/23/2019 15:16*	WG1315893
(S) 4-Bromofluorobenzene	*88.9*			*77.0-126*		*07/23/2019 15:16*	WG1315893
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*07/23/2019 15:16*	WG1315893

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 16:34	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/24/2019 16:34*	WG1316734

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.70 J	J	1.05	25.0	1	07/23/2019 15:37	WG1315893
Acrylonitrile	U		0.873	5.00	1	07/23/2019 15:37	WG1315893
Benzene	U		0.0896	0.500	1	07/23/2019 15:37	WG1315893
Bromobenzene	U		0.133	0.500	1	07/23/2019 15:37	WG1315893
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 15:37	WG1315893
Bromochloromethane	U		0.145	0.500	1	07/23/2019 15:37	WG1315893
Bromoform	U		0.186	0.500	1	07/23/2019 15:37	WG1315893
Bromomethane	U UJ	J0	0.157	2.50	1	07/23/2019 15:37	WG1315893
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 15:37	WG1315893
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 15:37	WG1315893
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 15:37	WG1315893
Carbon disulfide	U		0.101	0.500	1	07/23/2019 15:37	WG1315893
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 15:37	WG1315893
Chlorobenzene	U		0.140	0.500	1	07/23/2019 15:37	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 15:37	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 15:37	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 15:37	WG1315893
Chloromethane	U UJ	J0	0.153	1.25	1	07/23/2019 15:37	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 15:37	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 15:37	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 15:37	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 15:37	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 15:37	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 15:37	WG1315893
1,3-Dichlorobenzene	0.133 J	J	0.130	0.500	1	07/23/2019 15:37	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 15:37	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 15:37	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 15:37	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 15:37	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 15:37	WG1315893
cis-1,2-Dichloroethene	1.01		0.0933	0.500	1	07/23/2019 15:37	WG1315893
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 15:37	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 15:37	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 15:37	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 15:37	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 15:37	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 15:37	WG1315893
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/23/2019 15:37	WG1315893
2,2-Dichloropropane	U UJ	J0	0.0929	0.500	1	07/23/2019 15:37	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 15:37	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 15:37	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 15:37	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 15:37	WG1315893
n-Hexane	U UJ	J0	0.305	5.00	1	07/23/2019 15:37	WG1315893
Iodomethane	U UJ	J0	0.377	10.0	1	07/23/2019 15:37	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 15:37	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 15:37	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 15:37	WG1315893

JC 8/6/19

MW-121-071919

Collected date/time: 07/19/19 08:35

SAMPLE RESULTS - 03

L1120698

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/23/2019 15:37	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 15:37	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 15:37	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 15:37	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 15:37	WG1315893
Styrene	U	UJ J0	0.117	0.500	1	07/23/2019 15:37	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 15:37	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 15:37	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 15:37	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 15:37	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 15:37	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 15:37	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 15:37	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 15:37	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 15:37	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 15:37	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 15:37	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 15:37	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 15:37	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 15:37	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 15:37	WG1315893
Vinyl acetate	U	UJ J0	0.645	5.00	1	07/23/2019 15:37	WG1315893
Vinyl chloride	5.04		0.118	0.500	1	07/23/2019 15:37	WG1315893
Xylenes, Total	U		0.316	1.50	1	07/23/2019 15:37	WG1315893
(S) Toluene-d8	*105*			*80.0-120*		*07/23/2019 15:37*	WG1315893
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*07/23/2019 15:37*	WG1315893
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*07/23/2019 15:37*	WG1315893

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	133000		2710	20000	1	07/25/2019 23:11	WG1317440

Sample Narrative:

L1120698-04 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	14900		51.9	1000	1	07/20/2019 19:53	WG1314733
Nitrate	U		22.7	100	1	07/20/2019 19:53	WG1314733
Sulfate	53400		77.4	5000	1	07/20/2019 19:53	WG1314733

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1400	~~B~~	102	1000	1	07/23/2019 17:54	WG1315948

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	11700		15.0	100	1	07/23/2019 10:11	WG1315585
Manganese	560		0.250	5.00	1	07/23/2019 10:11	WG1315585

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 16:58	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*07/24/2019 16:58*	WG1316734

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	74.2		0.287	0.678	1	07/25/2019 16:59	WG1317137
Ethane	U		0.296	1.29	1	07/25/2019 16:59	WG1317137
Ethene	U		0.422	1.27	1	07/25/2019 16:59	WG1317137

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.82	J J	1.05	25.0	1	07/23/2019 15:58	WG1315893
Acrylonitrile	U		0.873	5.00	1	07/23/2019 15:58	WG1315893
Benzene	U		0.0896	0.500	1	07/23/2019 15:58	WG1315893
Bromobenzene	U		0.133	0.500	1	07/23/2019 15:58	WG1315893
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 15:58	WG1315893
Bromochloromethane	U		0.145	0.500	1	07/23/2019 15:58	WG1315893
Bromoform	U		0.186	0.500	1	07/23/2019 15:58	WG1315893
Bromomethane	U	UJ J0	0.157	2.50	1	07/23/2019 15:58	WG1315893
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 15:58	WG1315893
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 15:58	WG1315893
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 15:58	WG1315893
Carbon disulfide	U		0.101	0.500	1	07/23/2019 15:58	WG1315893
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 15:58	WG1315893

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 15:58	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 15:58	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 15:58	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 15:58	WG1315893
Chloromethane	U	UJ J0	0.153	1.25	1	07/23/2019 15:58	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 15:58	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 15:58	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 15:58	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 15:58	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 15:58	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 15:58	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 15:58	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 15:58	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 15:58	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 15:58	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 15:58	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 15:58	WG1315893
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 15:58	WG1315893
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 15:58	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 15:58	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 15:58	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 15:58	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 15:58	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 15:58	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/23/2019 15:58	WG1315893
2,2-Dichloropropane	U	UJ J0	0.0929	0.500	1	07/23/2019 15:58	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 15:58	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 15:58	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 15:58	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 15:58	WG1315893
n-Hexane	U	UJ J0	0.305	5.00	1	07/23/2019 15:58	WG1315893
Iodomethane	U	UJ J0	0.377	10.0	1	07/23/2019 15:58	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 15:58	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 15:58	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 15:58	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 15:58	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 15:58	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 15:58	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 15:58	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 15:58	WG1315893
Styrene	U	UJ J0	0.117	0.500	1	07/23/2019 15:58	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 15:58	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 15:58	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 15:58	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 15:58	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 15:58	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 15:58	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 15:58	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 15:58	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 15:58	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 15:58	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 15:58	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 15:58	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 15:58	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 15:58	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 15:58	WG1315893

JC 8/6/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	07/23/2019 15:58	WG1315893
Vinyl chloride	U			0.118	0.500	1	07/23/2019 15:58	WG1315893
Xylenes, Total	U			0.316	1.50	1	07/23/2019 15:58	WG1315893
(S) Toluene-d8	*125*		J1		*80.0-120*		*07/23/2019 15:58*	WG1315893
(S) 4-Bromofluorobenzene	*122*				*77.0-126*		*07/23/2019 15:58*	WG1315893
(S) 1,2-Dichloroethane-d4	*96.9*				*70.0-130*		*07/23/2019 15:58*	WG1315893

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	310000		2710	20000	1	07/25/2019 23:18	WG1317440

Sample Narrative:

L1120698-05 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	17200		51.9	1000	1	07/20/2019 20:08	WG1314733
Nitrate	U		22.7	100	1	07/20/2019 20:08	WG1314733
Sulfate	23900		77.4	5000	1	07/20/2019 20:08	WG1314733

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3780		102	1000	1	07/23/2019 18:21	WG1315948

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2870		15.0	100	1	07/23/2019 10:14	WG1315585
Manganese	800		0.250	5.00	1	07/23/2019 10:14	WG1315585

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	46.3	J J	31.6	100	1	07/24/2019 17:22	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*07/24/2019 17:22*	WG1316734

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	6490		0.287	0.678	1	07/25/2019 17:01	WG1317137
Ethane	U		0.296	1.29	1	07/25/2019 17:01	WG1317137
Ethene	463		0.422	1.27	1	07/25/2019 17:01	WG1317137

Volatile Organic Compounds (GC/MS) by Method 8260C

JC 8/6/19

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/23/2019 16:20	WG1315893
Acrylonitrile	U		0.873	5.00	1	07/23/2019 16:20	WG1315893
Benzene	U		0.0896	0.500	1	07/23/2019 16:20	WG1315893
Bromobenzene	U		0.133	0.500	1	07/23/2019 16:20	WG1315893
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 16:20	WG1315893
Bromochloromethane	U		0.145	0.500	1	07/23/2019 16:20	WG1315893
Bromoform	U		0.186	0.500	1	07/23/2019 16:20	WG1315893
Bromomethane	U	UJ J0	0.157	2.50	1	07/23/2019 16:20	WG1315893
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 16:20	WG1315893
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 16:20	WG1315893
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 16:20	WG1315893
Carbon disulfide	U		0.101	0.500	1	07/23/2019 16:20	WG1315893
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 16:20	WG1315893

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 16:20	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 16:20	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 16:20	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 16:20	WG1315893
Chloromethane	U	UJ J0	0.153	1.25	1	07/23/2019 16:20	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 16:20	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 16:20	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 16:20	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 16:20	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 16:20	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 16:20	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 16:20	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 16:20	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 16:20	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 16:20	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 16:20	WG1315893
1,1-Dichloroethene	1.15		0.188	0.500	1	07/23/2019 16:20	WG1315893
cis-1,2-Dichloroethene	257	J	1.87	10.0	20	07/29/2019 15:09	WG1319424
trans-1,2-Dichloroethene	3.29		0.152	0.500	1	07/23/2019 16:20	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 16:20	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 16:20	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 16:20	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 16:20	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 16:20	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/23/2019 16:20	WG1315893
2,2-Dichloropropane	U	UJ J0	0.0929	0.500	1	07/23/2019 16:20	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 16:20	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 16:20	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 16:20	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 16:20	WG1315893
n-Hexane	U	UJ J0	0.305	5.00	1	07/23/2019 16:20	WG1315893
Iodomethane	U	UJ J0	0.377	10.0	1	07/23/2019 16:20	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 16:20	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 16:20	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 16:20	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 16:20	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 16:20	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 16:20	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 16:20	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 16:20	WG1315893
Styrene	U	UJ J0	0.117	0.500	1	07/23/2019 16:20	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 16:20	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 16:20	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 16:20	WG1315893
Tetrachloroethene	3.08		0.199	0.500	1	07/23/2019 16:20	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 16:20	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 16:20	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 16:20	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 16:20	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 16:20	WG1315893
Trichloroethene	14.4		0.153	0.500	1	07/23/2019 16:20	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 16:20	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 16:20	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 16:20	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 16:20	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 16:20	WG1315893

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	07/23/2019 16:20	WG1315893
Vinyl chloride	580	J		2.36	10.0	20	07/29/2019 15:09	WG1319424
Xylenes, Total	U		0.316	1.50	1	07/23/2019 16:20	WG1315893
(S) Toluene-d8	*109*			*80.0-120*		*07/23/2019 16:20*	WG1315893
(S) Toluene-d8	*105*			*80.0-120*		*07/29/2019 15:09*	WG1319424
(S) 4-Bromofluorobenzene	*88.7*			*77.0-126*		*07/23/2019 16:20*	WG1315893
(S) 4-Bromofluorobenzene	*96.6*			*77.0-126*		*07/29/2019 15:09*	WG1319424
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*		*07/23/2019 16:20*	WG1315893
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*07/29/2019 15:09*	WG1319424

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	5.73 J	J	1.05	25.0	1	07/23/2019 16:41	WG1315893
Acrylonitrile	U		0.873	5.00	1	07/23/2019 16:41	WG1315893
Benzene	U		0.0896	0.500	1	07/23/2019 16:41	WG1315893
Bromobenzene	U		0.133	0.500	1	07/23/2019 16:41	WG1315893
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 16:41	WG1315893
Bromochloromethane	U		0.145	0.500	1	07/23/2019 16:41	WG1315893
Bromoform	U		0.186	0.500	1	07/23/2019 16:41	WG1315893
Bromomethane	U UJ	J0	0.157	2.50	1	07/23/2019 16:41	WG1315893
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 16:41	WG1315893
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 16:41	WG1315893
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 16:41	WG1315893
Carbon disulfide	U		0.101	0.500	1	07/23/2019 16:41	WG1315893
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 16:41	WG1315893
Chlorobenzene	U		0.140	0.500	1	07/23/2019 16:41	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 16:41	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 16:41	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 16:41	WG1315893
Chloromethane	U UJ	J0	0.153	1.25	1	07/23/2019 16:41	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 16:41	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 16:41	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 16:41	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 16:41	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 16:41	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 16:41	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 16:41	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 16:41	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 16:41	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 16:41	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 16:41	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 16:41	WG1315893
cis-1,2-Dichloroethene	0.340 J	J	0.0933	0.500	1	07/28/2019 17:09	WG1318890
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 16:41	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 16:41	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 16:41	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 16:41	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 16:41	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 16:41	WG1315893
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	07/23/2019 16:41	WG1315893
2,2-Dichloropropane	U UJ	J0	0.0929	0.500	1	07/23/2019 16:41	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 16:41	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 16:41	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 16:41	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 16:41	WG1315893
n-Hexane	U UJ	J0	0.305	5.00	1	07/23/2019 16:41	WG1315893
Iodomethane	U UJ	J0	0.377	10.0	1	07/23/2019 16:41	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 16:41	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 16:41	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 16:41	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 16:41	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 16:41	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 16:41	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 16:41	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 16:41	WG1315893
Styrene	U UJ	J0	0.117	0.500	1	07/23/2019 16:41	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 16:41	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 16:41	WG1315893

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	07/23/2019 16:41	WG1315893
Tetrachloroethene	0.303	J	J	0.199	0.500	1	07/23/2019 16:41	WG1315893
Toluene	U			0.412	0.500	1	07/23/2019 16:41	WG1315893
1,2,3-Trichlorobenzene	U			0.164	0.500	1	07/23/2019 16:41	WG1315893
1,2,4-Trichlorobenzene	U			0.355	0.500	1	07/23/2019 16:41	WG1315893
1,1,1-Trichloroethane	U			0.0940	0.500	1	07/23/2019 16:41	WG1315893
1,1,2-Trichloroethane	U			0.186	0.500	1	07/23/2019 16:41	WG1315893
Trichloroethene	U			0.153	0.500	1	07/23/2019 16:41	WG1315893
Trichlorofluoromethane	U			0.130	2.50	1	07/23/2019 16:41	WG1315893
1,2,3-Trichloropropane	U			0.247	2.50	1	07/23/2019 16:41	WG1315893
1,2,4-Trimethylbenzene	U			0.123	0.500	1	07/23/2019 16:41	WG1315893
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	07/23/2019 16:41	WG1315893
1,3,5-Trimethylbenzene	U			0.124	0.500	1	07/23/2019 16:41	WG1315893
Vinyl acetate	U	UJ	J0	0.645	5.00	1	07/23/2019 16:41	WG1315893
Vinyl chloride	U			0.118	0.500	1	07/28/2019 17:09	WG1318890
Xylenes, Total	U			0.316	1.50	1	07/23/2019 16:41	WG1315893
(S) Toluene-d8	*128*		J1		*80.0-120*		*07/23/2019 16:41*	WG1315893
(S) Toluene-d8	*110*				*80.0-120*		*07/28/2019 17:09*	WG1318890
(S) 4-Bromofluorobenzene	*103*				*77.0-126*		*07/23/2019 16:41*	WG1315893
(S) 4-Bromofluorobenzene	*98.4*				*77.0-126*		*07/28/2019 17:09*	WG1318890
(S) 1,2-Dichloroethane-d4	*96.2*				*70.0-130*		*07/23/2019 16:41*	WG1315893
(S) 1,2-Dichloroethane-d4	*112*				*70.0-130*		*07/28/2019 17:09*	WG1318890

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	403000		2710	20000	1	07/25/2019 23:25	WG1317440

Sample Narrative:

L1120698-07 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	58200		51.9	1000	1	07/20/2019 20:22	WG1314733
Nitrate	140		22.7	100	1	07/20/2019 20:22	WG1314733
Sulfate	6910		77.4	5000	1	07/20/2019 20:22	WG1314733

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	12700		102	1000	1	07/23/2019 18:35	WG1315948

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2070		15.0	100	1	07/23/2019 10:17	WG1315585
Manganese	398		0.250	5.00	1	07/23/2019 10:17	WG1315585

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 17:46	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/24/2019 17:46*	WG1316734

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Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	4790		0.287	0.678	1	07/25/2019 17:09	WG1317137
Ethane	96.5		0.296	1.29	1	07/25/2019 17:09	WG1317137
Ethene	14.4		0.422	1.27	1	07/25/2019 17:09	WG1317137

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.80 J	J	1.05	25.0	1	07/23/2019 17:02	WG1315893
Acrylonitrile	U		0.873	5.00	1	07/23/2019 17:02	WG1315893
Benzene	U		0.0896	0.500	1	07/23/2019 17:02	WG1315893
Bromobenzene	U		0.133	0.500	1	07/23/2019 17:02	WG1315893
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 17:02	WG1315893
Bromochloromethane	U		0.145	0.500	1	07/23/2019 17:02	WG1315893
Bromoform	U		0.186	0.500	1	07/23/2019 17:02	WG1315893
Bromomethane	U UJ	J0	0.157	2.50	1	07/23/2019 17:02	WG1315893
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 17:02	WG1315893
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 17:02	WG1315893
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 17:02	WG1315893
Carbon disulfide	U		0.101	0.500	1	07/23/2019 17:02	WG1315893
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 17:02	WG1315893

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 17:02	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 17:02	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 17:02	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 17:02	WG1315893
Chloromethane	U	UJ J0	0.153	1.25	1	07/23/2019 17:02	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 17:02	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 17:02	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 17:02	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 17:02	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 17:02	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 17:02	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 17:02	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 17:02	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 17:02	WG1315893
cis-1,2-Dichloroethene	0.309	J J	0.0933	0.500	1	07/28/2019 17:29	WG1318890
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 17:02	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 17:02	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 17:02	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 17:02	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 17:02	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/23/2019 17:02	WG1315893
2,2-Dichloropropane	U	UJ J0	0.0929	0.500	1	07/23/2019 17:02	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 17:02	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 17:02	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 17:02	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 17:02	WG1315893
n-Hexane	U	UJ J0	0.305	5.00	1	07/23/2019 17:02	WG1315893
Iodomethane	U	UJ J0	0.377	10.0	1	07/23/2019 17:02	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 17:02	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 17:02	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 17:02	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 17:02	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 17:02	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 17:02	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 17:02	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 17:02	WG1315893
Styrene	U	UJ J0	0.117	0.500	1	07/23/2019 17:02	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 17:02	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 17:02	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 17:02	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 17:02	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 17:02	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 17:02	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 17:02	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 17:02	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 17:02	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 17:02	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 17:02	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 17:02	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 17:02	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 17:02	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 17:02	WG1315893

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	07/23/2019 17:02	WG1315893
Vinyl chloride	U		0.118	0.500	1	07/28/2019 17:29	WG1318890
Xylenes, Total	U		0.316	1.50	1	07/23/2019 17:02	WG1315893
(S) Toluene-d8	*103*			*80.0-120*		*07/23/2019 17:02*	WG1315893
(S) Toluene-d8	*106*			*80.0-120*		*07/28/2019 17:29*	WG1318890
(S) 4-Bromofluorobenzene	*86.0*			*77.0-126*		*07/23/2019 17:02*	WG1315893
(S) 4-Bromofluorobenzene	*99.0*			*77.0-126*		*07/28/2019 17:29*	WG1318890
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*07/23/2019 17:02*	WG1315893
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*07/28/2019 17:29*	WG1318890

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Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	266000		2710	20000	1	07/25/2019 23:32	WG1317440

Sample Narrative:

L1120698-08 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	24400		51.9	1000	1	07/20/2019 20:51	WG1314733
Nitrate	U		22.7	100	1	07/20/2019 20:51	WG1314733
Sulfate	15000		77.4	5000	1	07/20/2019 20:51	WG1314733

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2230		102	1000	1	07/23/2019 20:18	WG1315948

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	13700		15.0	100	1	07/23/2019 10:21	WG1315585
Manganese	972		0.250	5.00	1	07/23/2019 10:21	WG1315585

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 18:10	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/24/2019 18:10*	WG1316734

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	39.5		0.287	0.678	1	07/25/2019 17:15	WG1317137
Ethane	U		0.296	1.29	1	07/25/2019 17:15	WG1317137
Ethene	U		0.422	1.27	1	07/25/2019 17:15	WG1317137

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l			ug/l	ug/l		date / time	
Acetone	2.16	J	J	1.05	25.0	1	07/23/2019 17:23	WG1315893
Acrylonitrile	U			0.873	5.00	1	07/23/2019 17:23	WG1315893
Benzene	U			0.0896	0.500	1	07/23/2019 17:23	WG1315893
Bromobenzene	U			0.133	0.500	1	07/23/2019 17:23	WG1315893
Bromodichloromethane	U			0.0800	0.500	1	07/23/2019 17:23	WG1315893
Bromochloromethane	U			0.145	0.500	1	07/23/2019 17:23	WG1315893
Bromoform	U			0.186	0.500	1	07/23/2019 17:23	WG1315893
Bromomethane	U	UJ	J0	0.157	2.50	1	07/23/2019 17:23	WG1315893
n-Butylbenzene	U			0.143	0.500	1	07/23/2019 17:23	WG1315893
sec-Butylbenzene	U			0.134	0.500	1	07/23/2019 17:23	WG1315893
tert-Butylbenzene	U			0.183	0.500	1	07/23/2019 17:23	WG1315893
Carbon disulfide	U			0.101	0.500	1	07/23/2019 17:23	WG1315893
Carbon tetrachloride	U			0.159	0.500	1	07/23/2019 17:23	WG1315893

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 17:23	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 17:23	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 17:23	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 17:23	WG1315893
Chloromethane	U	UJ J0	0.153	1.25	1	07/23/2019 17:23	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 17:23	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 17:23	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 17:23	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 17:23	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 17:23	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 17:23	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 17:23	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 17:23	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 17:23	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 17:23	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 17:23	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 17:23	WG1315893
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 17:23	WG1315893
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 17:23	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 17:23	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 17:23	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 17:23	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 17:23	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 17:23	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/23/2019 17:23	WG1315893
2,2-Dichloropropane	U	UJ J0	0.0929	0.500	1	07/23/2019 17:23	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 17:23	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 17:23	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 17:23	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 17:23	WG1315893
n-Hexane	U	UJ J0	0.305	5.00	1	07/23/2019 17:23	WG1315893
Iodomethane	U	UJ J0	0.377	10.0	1	07/23/2019 17:23	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 17:23	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 17:23	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 17:23	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 17:23	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 17:23	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 17:23	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 17:23	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 17:23	WG1315893
Styrene	U	UJ J0	0.117	0.500	1	07/23/2019 17:23	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 17:23	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 17:23	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 17:23	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 17:23	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 17:23	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 17:23	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 17:23	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 17:23	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 17:23	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 17:23	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 17:23	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 17:23	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 17:23	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 17:23	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 17:23	WG1315893

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	07/23/2019 17:23	WG1315893
Vinyl chloride	U			0.118	0.500	1	07/23/2019 17:23	WG1315893
Xylenes, Total	U			0.316	1.50	1	07/23/2019 17:23	WG1315893
(S) Toluene-d8	*120*				*80.0-120*		*07/23/2019 17:23*	WG1315893
(S) 4-Bromofluorobenzene	*95.7*				*77.0-126*		*07/23/2019 17:23*	WG1315893
(S) 1,2-Dichloroethane-d4	*98.9*				*70.0-130*		*07/23/2019 17:23*	WG1315893

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MW-913-071919

Collected date/time: 07/19/19 12:00

SAMPLE RESULTS - 09

L1120698

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	307000		2710	20000	1	07/25/2019 23:48	WG1317440

Sample Narrative:

L1120698-09 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	17200		51.9	1000	1	07/20/2019 21:49	WG1314733
Nitrate	U		22.7	100	1	07/20/2019 21:49	WG1314733
Sulfate	24200		77.4	5000	1	07/20/2019 21:49	WG1314733

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3670		102	1000	1	07/23/2019 20:31	WG1315948

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2950		15.0	100	1	07/23/2019 10:24	WG1315585
Manganese	817		0.250	5.00	1	07/23/2019 10:24	WG1315585

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	262 J+		31.6	100	1	07/24/2019 18:34	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*07/24/2019 18:34*	WG1316734

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	5480		0.287	0.678	1	07/25/2019 17:17	WG1317137
Ethane	U		0.296	1.29	1	07/25/2019 17:17	WG1317137
Ethene	387		0.422	1.27	1	07/25/2019 17:17	WG1317137

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/23/2019 17:45	WG1315893
Acrylonitrile	U		0.873	5.00	1	07/23/2019 17:45	WG1315893
Benzene	U		0.0896	0.500	1	07/23/2019 17:45	WG1315893
Bromobenzene	U		0.133	0.500	1	07/23/2019 17:45	WG1315893
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 17:45	WG1315893
Bromochloromethane	U		0.145	0.500	1	07/23/2019 17:45	WG1315893
Bromoform	U		0.186	0.500	1	07/23/2019 17:45	WG1315893
Bromomethane	U UJ	J0	0.157	2.50	1	07/23/2019 17:45	WG1315893
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 17:45	WG1315893
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 17:45	WG1315893
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 17:45	WG1315893
Carbon disulfide	U		0.101	0.500	1	07/23/2019 17:45	WG1315893
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 17:45	WG1315893

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 17:45	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 17:45	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 17:45	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 17:45	WG1315893
Chloromethane	U	UJ J0	0.153	1.25	1	07/23/2019 17:45	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 17:45	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 17:45	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 17:45	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 17:45	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 17:45	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 17:45	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 17:45	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 17:45	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 17:45	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 17:45	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 17:45	WG1315893
1,1-Dichloroethene	1.37		0.188	0.500	1	07/23/2019 17:45	WG1315893
cis-1,2-Dichloroethene	371	J	1.87	10.0	20	07/28/2019 17:49	WG1318890
trans-1,2-Dichloroethene	3.50		0.152	0.500	1	07/23/2019 17:45	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 17:45	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 17:45	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 17:45	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 17:45	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 17:45	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/23/2019 17:45	WG1315893
2,2-Dichloropropane	U	UJ J0	0.0929	0.500	1	07/23/2019 17:45	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 17:45	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 17:45	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 17:45	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 17:45	WG1315893
n-Hexane	U	UJ J0	0.305	5.00	1	07/23/2019 17:45	WG1315893
Iodomethane	U	UJ J0	0.377	10.0	1	07/23/2019 17:45	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 17:45	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 17:45	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 17:45	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 17:45	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 17:45	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 17:45	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 17:45	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 17:45	WG1315893
Styrene	U	UJ J0	0.117	0.500	1	07/23/2019 17:45	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 17:45	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 17:45	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 17:45	WG1315893
Tetrachloroethene	2.80		0.199	0.500	1	07/23/2019 17:45	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 17:45	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 17:45	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 17:45	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 17:45	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 17:45	WG1315893
Trichloroethene	15.9		0.153	0.500	1	07/23/2019 17:45	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 17:45	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 17:45	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 17:45	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 17:45	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 17:45	WG1315893

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	07/23/2019 17:45	WG1315893
Vinyl chloride	842	J	2.36	10.0	20	07/28/2019 17:49	WG1318890
Xylenes, Total	U		0.316	1.50	1	07/23/2019 17:45	WG1315893
(S) Toluene-d8	*105*			*80.0-120*		*07/23/2019 17:45*	WG1315893
(S) Toluene-d8	*104*			*80.0-120*		*07/28/2019 17:49*	WG1318890
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*07/23/2019 17:45*	WG1315893
(S) 4-Bromofluorobenzene	*95.8*			*77.0-126*		*07/28/2019 17:49*	WG1318890
(S) 1,2-Dichloroethane-d4	*94.0*			*70.0-130*		*07/23/2019 17:45*	WG1315893
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*07/28/2019 17:49*	WG1318890

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	4460	B J	2710	20000	1	07/25/2019 21:00	WG1317440

Sample Narrative:

L1120698-10 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	195	J	51.9	1000	1	07/20/2019 22:03	WG1314733
Nitrate	U		22.7	100	1	07/20/2019 22:03	WG1314733
Sulfate	U		77.4	5000	1	07/20/2019 22:03	WG1314733

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	234	B J	102	1000	1	07/23/2019 20:45	WG1315948

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	31.4	J	15.0	100	1	07/23/2019 10:45	WG1315585
Manganese	1.38	J	0.250	5.00	1	07/23/2019 10:45	WG1315585

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 18:58	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*07/24/2019 18:58*	WG1316734

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	218		0.287	0.678	1	07/25/2019 17:20	WG1317137
Ethane	U		0.296	1.29	1	07/25/2019 17:20	WG1317137
Ethene	14.1		0.422	1.27	1	07/25/2019 17:20	WG1317137

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.98	J	1.05	25.0	1	07/23/2019 18:06	WG1315893
Acrylonitrile	U		0.873	5.00	1	07/23/2019 18:06	WG1315893
Benzene	U		0.0896	0.500	1	07/23/2019 18:06	WG1315893
Bromobenzene	U		0.133	0.500	1	07/23/2019 18:06	WG1315893
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 18:06	WG1315893
Bromochloromethane	U		0.145	0.500	1	07/23/2019 18:06	WG1315893
Bromoform	U		0.186	0.500	1	07/23/2019 18:06	WG1315893
Bromomethane	U	UJ J0	0.157	2.50	1	07/23/2019 18:06	WG1315893
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 18:06	WG1315893
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 18:06	WG1315893
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 18:06	WG1315893
Carbon disulfide	U		0.101	0.500	1	07/23/2019 18:06	WG1315893
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 18:06	WG1315893

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 18:06	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 18:06	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 18:06	WG1315893
Chloroform	0.295	J	0.0860	0.500	1	07/23/2019 18:06	WG1315893
Chloromethane	U	UJ J0	0.153	1.25	1	07/23/2019 18:06	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 18:06	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 18:06	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 18:06	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 18:06	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 18:06	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 18:06	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 18:06	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 18:06	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 18:06	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 18:06	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 18:06	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 18:06	WG1315893
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/28/2019 18:08	WG1318890
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 18:06	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 18:06	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 18:06	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 18:06	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 18:06	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 18:06	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	07/23/2019 18:06	WG1315893
2,2-Dichloropropane	U	UJ J0	0.0929	0.500	1	07/23/2019 18:06	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 18:06	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 18:06	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 18:06	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 18:06	WG1315893
n-Hexane	U	UJ J0	0.305	5.00	1	07/23/2019 18:06	WG1315893
Iodomethane	U	UJ J0	0.377	10.0	1	07/23/2019 18:06	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 18:06	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 18:06	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 18:06	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 18:06	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 18:06	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 18:06	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 18:06	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 18:06	WG1315893
Styrene	U	UJ J0	0.117	0.500	1	07/23/2019 18:06	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 18:06	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 18:06	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 18:06	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 18:06	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 18:06	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 18:06	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 18:06	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 18:06	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 18:06	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 18:06	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 18:06	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 18:06	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 18:06	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 18:06	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 18:06	WG1315893

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	07/23/2019 18:06	WG1315893
Vinyl chloride	U		0.118	0.500	1	07/28/2019 18:08	WG1318890
Xylenes, Total	U		0.316	1.50	1	07/23/2019 18:06	WG1315893
(S) Toluene-d8	*106*			*80.0-120*		*07/23/2019 18:06*	WG1315893
(S) Toluene-d8	*108*			*80.0-120*		*07/28/2019 18:08*	WG1318890
(S) 4-Bromofluorobenzene	*79.6*			*77.0-126*		*07/23/2019 18:06*	WG1315893
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*		*07/28/2019 18:08*	WG1318890
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*07/23/2019 18:06*	WG1315893
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*07/28/2019 18:08*	WG1318890

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 14:58	WG1316734
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/24/2019 14:58*	WG1316734

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/23/2019 14:33	WG1315893
Acrylonitrile	U		0.873	5.00	1	07/23/2019 14:33	WG1315893
Benzene	U		0.0896	0.500	1	07/23/2019 14:33	WG1315893
Bromobenzene	U		0.133	0.500	1	07/23/2019 14:33	WG1315893
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 14:33	WG1315893
Bromochloromethane	U		0.145	0.500	1	07/23/2019 14:33	WG1315893
Bromoform	U		0.186	0.500	1	07/23/2019 14:33	WG1315893
Bromomethane	U	J0	0.157	2.50	1	07/23/2019 14:33	WG1315893
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 14:33	WG1315893
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 14:33	WG1315893
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 14:33	WG1315893
Carbon disulfide	U		0.101	0.500	1	07/23/2019 14:33	WG1315893
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 14:33	WG1315893
Chlorobenzene	U		0.140	0.500	1	07/23/2019 14:33	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 14:33	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 14:33	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 14:33	WG1315893
Chloromethane	U	J0	0.153	1.25	1	07/23/2019 14:33	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 14:33	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 14:33	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 14:33	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 14:33	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 14:33	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 14:33	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 14:33	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 14:33	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 14:33	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 14:33	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 14:33	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 14:33	WG1315893
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 14:33	WG1315893
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 14:33	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 14:33	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 14:33	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 14:33	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 14:33	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 14:33	WG1315893
trans-1,4-Dichloro-2-butene	U	J0	0.257	5.00	1	07/23/2019 14:33	WG1315893
2,2-Dichloropropane	U	J0	0.0929	0.500	1	07/23/2019 14:33	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 14:33	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 14:33	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 14:33	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 14:33	WG1315893
n-Hexane	U	J0	0.305	5.00	1	07/23/2019 14:33	WG1315893
Iodomethane	U	J0	0.377	10.0	1	07/23/2019 14:33	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 14:33	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 14:33	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 14:33	WG1315893

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	07/23/2019 14:33	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 14:33	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 14:33	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 14:33	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 14:33	WG1315893
Styrene	U	J0	0.117	0.500	1	07/23/2019 14:33	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 14:33	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 14:33	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 14:33	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 14:33	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 14:33	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 14:33	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 14:33	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 14:33	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 14:33	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 14:33	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 14:33	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 14:33	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 14:33	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 14:33	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 14:33	WG1315893
Vinyl acetate	U	J0	0.645	5.00	1	07/23/2019 14:33	WG1315893
Vinyl chloride	U		0.118	0.500	1	07/23/2019 14:33	WG1315893
Xylenes, Total	U		0.316	1.50	1	07/23/2019 14:33	WG1315893
(S) Toluene-d8	*104*			*80.0-120*		*07/23/2019 14:33*	WG1315893
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*07/23/2019 14:33*	WG1315893
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*07/23/2019 14:33*	WG1315893

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 06:38	WG1317068
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*07/25/2019 06:38*	WG1317068

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.13 J	J	1.05	25.0	1	07/25/2019 00:48	WG1317007
Acrylonitrile	U		0.873	5.00	1	07/25/2019 00:48	WG1317007
Benzene	U		0.0896	0.500	1	07/25/2019 00:48	WG1317007
Bromobenzene	U		0.133	0.500	1	07/25/2019 00:48	WG1317007
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 00:48	WG1317007
Bromochloromethane	U		0.145	0.500	1	07/25/2019 00:48	WG1317007
Bromoform	U		0.186	0.500	1	07/25/2019 00:48	WG1317007
Bromomethane	U		0.157	2.50	1	07/25/2019 00:48	WG1317007
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 00:48	WG1317007
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 00:48	WG1317007
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 00:48	WG1317007
Carbon disulfide	U		0.101	0.500	1	07/25/2019 00:48	WG1317007
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 00:48	WG1317007
Chlorobenzene	U		0.140	0.500	1	07/25/2019 00:48	WG1317007
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 00:48	WG1317007
Chloroethane	U		0.141	2.50	1	07/25/2019 00:48	WG1317007
Chloroform	U		0.0860	0.500	1	07/25/2019 00:48	WG1317007
Chloromethane	U		0.153	1.25	1	07/25/2019 00:48	WG1317007
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 00:48	WG1317007
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 00:48	WG1317007
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 00:48	WG1317007
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 00:48	WG1317007
Dibromomethane	U		0.117	0.500	1	07/25/2019 00:48	WG1317007
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 00:48	WG1317007
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 00:48	WG1317007
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 00:48	WG1317007
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 00:48	WG1317007
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 00:48	WG1317007
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 00:48	WG1317007
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 00:48	WG1317007
cis-1,2-Dichloroethene	0.918		0.0933	0.500	1	07/25/2019 00:48	WG1317007
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 00:48	WG1317007
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 00:48	WG1317007
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 00:48	WG1317007
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 00:48	WG1317007
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 00:48	WG1317007
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 00:48	WG1317007
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 00:48	WG1317007
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 00:48	WG1317007
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 00:48	WG1317007
Ethylbenzene	U		0.158	0.500	1	07/25/2019 00:48	WG1317007
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 00:48	WG1317007
2-Hexanone	U		0.757	5.00	1	07/25/2019 00:48	WG1317007
n-Hexane	U		0.305	5.00	1	07/25/2019 00:48	WG1317007
Iodomethane	U		0.377	10.0	1	07/25/2019 00:48	WG1317007
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 00:48	WG1317007
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 00:48	WG1317007
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 00:48	WG1317007

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	07/25/2019 00:48	WG1317007
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 00:48	WG1317007
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 00:48	WG1317007
Naphthalene	U		0.174	2.50	1	07/25/2019 00:48	WG1317007
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 00:48	WG1317007
Styrene	U		0.117	0.500	1	07/25/2019 00:48	WG1317007
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 00:48	WG1317007
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 00:48	WG1317007
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 00:48	WG1317007
Tetrachloroethene	U		0.199	0.500	1	07/31/2019 17:23	WG1320771
Toluene	U		0.412	0.500	1	07/25/2019 00:48	WG1317007
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 00:48	WG1317007
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 00:48	WG1317007
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 00:48	WG1317007
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 00:48	WG1317007
Trichloroethene	U		0.153	0.500	1	07/25/2019 00:48	WG1317007
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 00:48	WG1317007
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 00:48	WG1317007
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 00:48	WG1317007
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 00:48	WG1317007
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 00:48	WG1317007
Vinyl acetate	U		0.645	5.00	1	07/25/2019 00:48	WG1317007
Vinyl chloride	0.691		0.118	0.500	1	07/25/2019 00:48	WG1317007
Xylenes, Total	U		0.316	1.50	1	07/25/2019 00:48	WG1317007
(S) Toluene-d8	*110*			*80.0-120*		*07/25/2019 00:48*	WG1317007
(S) Toluene-d8	*97.7*			*80.0-120*		*07/31/2019 17:23*	WG1320771
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*07/25/2019 00:48*	WG1317007
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*07/31/2019 17:23*	WG1320771
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/25/2019 00:48*	WG1317007
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/31/2019 17:23*	WG1320771

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	201000		2710	20000	1	07/26/2019 16:02	WG1317446

Sample Narrative:

L1121210-02 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	17000		51.9	1000	1	07/23/2019 16:59	WG1315944
Nitrate	U		22.7	100	1	07/23/2019 16:59	WG1315944
Sulfate	7400		77.4	5000	1	07/23/2019 16:59	WG1315944

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	7110		204	2000	2	07/23/2019 22:07	WG1315948

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	3000		15.0	100	1	07/23/2019 21:17	WG1316057
Manganese	164		0.250	5.00	1	07/23/2019 21:17	WG1316057

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	50.4 J	J	31.6	100	1	07/25/2019 07:02	WG1317068
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/25/2019 07:02*	WG1317068

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	375		0.287	0.678	1	07/26/2019 11:22	WG1317907
Ethane	2.94		0.296	1.29	1	07/26/2019 11:22	WG1317907
Ethene	28.6		0.422	1.27	1	07/26/2019 11:22	WG1317907

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	4.88 J	J	1.05	25.0	1	07/25/2019 01:10	WG1317007
Acrylonitrile	U		0.873	5.00	1	07/25/2019 01:10	WG1317007
Benzene	U		0.0896	0.500	1	07/25/2019 01:10	WG1317007
Bromobenzene	U		0.133	0.500	1	07/25/2019 01:10	WG1317007
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 01:10	WG1317007
Bromochloromethane	U		0.145	0.500	1	07/25/2019 01:10	WG1317007
Bromoform	U		0.186	0.500	1	07/25/2019 01:10	WG1317007
Bromomethane	U		0.157	2.50	1	07/25/2019 01:10	WG1317007
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 01:10	WG1317007
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 01:10	WG1317007
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 01:10	WG1317007
Carbon disulfide	U		0.101	0.500	1	07/25/2019 01:10	WG1317007
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 01:10	WG1317007

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 01:10	WG1317007
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 01:10	WG1317007
Chloroethane	U		0.141	2.50	1	07/25/2019 01:10	WG1317007
Chloroform	U		0.0860	0.500	1	07/25/2019 01:10	WG1317007
Chloromethane	U		0.153	1.25	1	07/25/2019 01:10	WG1317007
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 01:10	WG1317007
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 01:10	WG1317007
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 01:10	WG1317007
Dibromomethane	U		0.117	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 01:10	WG1317007
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 01:10	WG1317007
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 01:10	WG1317007
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 01:10	WG1317007
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 01:10	WG1317007
1,1-Dichloroethene	5.38		0.188	0.500	1	07/25/2019 01:10	WG1317007
cis-1,2-Dichloroethene	160		0.0933	0.500	1	07/25/2019 01:10	WG1317007
trans-1,2-Dichloroethene	2.10		0.152	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 01:10	WG1317007
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 01:10	WG1317007
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 01:10	WG1317007
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 01:10	WG1317007
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 01:10	WG1317007
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 01:10	WG1317007
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 01:10	WG1317007
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 01:10	WG1317007
Ethylbenzene	U		0.158	0.500	1	07/25/2019 01:10	WG1317007
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 01:10	WG1317007
2-Hexanone	U		0.757	5.00	1	07/25/2019 01:10	WG1317007
n-Hexane	U		0.305	5.00	1	07/25/2019 01:10	WG1317007
Iodomethane	U		0.377	10.0	1	07/25/2019 01:10	WG1317007
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 01:10	WG1317007
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 01:10	WG1317007
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 01:10	WG1317007
Methylene Chloride	U		1.07	2.50	1	07/25/2019 01:10	WG1317007
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 01:10	WG1317007
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 01:10	WG1317007
Naphthalene	U		0.174	2.50	1	07/25/2019 01:10	WG1317007
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 01:10	WG1317007
Styrene	U		0.117	0.500	1	07/25/2019 01:10	WG1317007
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 01:10	WG1317007
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 01:10	WG1317007
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 01:10	WG1317007
Tetrachloroethene	0.282 J	J	0.199	0.500	1	07/31/2019 17:43	WG1320771
Toluene	U		0.412	0.500	1	07/25/2019 01:10	WG1317007
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 01:10	WG1317007
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 01:10	WG1317007
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 01:10	WG1317007
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 01:10	WG1317007
Trichloroethene	28.3		0.153	0.500	1	07/25/2019 01:10	WG1317007
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 01:10	WG1317007
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 01:10	WG1317007
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 01:10	WG1317007
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 01:10	WG1317007
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 01:10	WG1317007

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 01:10	WG1317007
Vinyl chloride	57.1		0.118	0.500	1	07/25/2019 01:10	WG1317007
Xylenes, Total	U		0.316	1.50	1	07/25/2019 01:10	WG1317007
(S) Toluene-d8	*106*			*80.0-120*		*07/25/2019 01:10*	WG1317007
(S) Toluene-d8	*100*			*80.0-120*		*07/31/2019 17:43*	WG1320771
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*07/25/2019 01:10*	WG1317007
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*07/31/2019 17:43*	WG1320771
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/25/2019 01:10*	WG1317007
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/31/2019 17:43*	WG1320771

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	160000		2710	20000	1	07/26/2019 16:11	WG1317446

Sample Narrative:

L1121210-03 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	17000		51.9	1000	1	07/23/2019 18:04	WG1315944
Nitrate	U		22.7	100	1	07/23/2019 18:04	WG1315944
Sulfate	173000		387	25000	5	07/24/2019 08:21	WG1315944

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3510		102	1000	1	07/23/2019 23:22	WG1315948

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5440		15.0	100	1	07/23/2019 21:21	WG1316057
Manganese	534		0.250	5.00	1	07/23/2019 21:21	WG1316057

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 07:26	WG1317068
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*07/25/2019 07:26*	WG1317068

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1940		0.287	0.678	1	07/26/2019 11:27	WG1317907
Ethane	U		0.296	1.29	1	07/26/2019 11:27	WG1317907
Ethene	4.66		0.422	1.27	1	07/26/2019 11:27	WG1317907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.48 J	J	1.05	25.0	1	07/26/2019 21:29	WG1317370
Acrylonitrile	U		0.873	5.00	1	07/26/2019 21:29	WG1317370
Benzene	U		0.0896	0.500	1	07/26/2019 21:29	WG1317370
Bromobenzene	U		0.133	0.500	1	07/26/2019 21:29	WG1317370
Bromodichloromethane	U		0.0800	0.500	1	07/26/2019 21:29	WG1317370
Bromochloromethane	U		0.145	0.500	1	07/26/2019 21:29	WG1317370
Bromoform	U		0.186	0.500	1	07/26/2019 21:29	WG1317370
Bromomethane	U		0.157	2.50	1	07/26/2019 21:29	WG1317370
n-Butylbenzene	U		0.143	0.500	1	07/26/2019 21:29	WG1317370
sec-Butylbenzene	U		0.134	0.500	1	07/26/2019 21:29	WG1317370
tert-Butylbenzene	U		0.183	0.500	1	07/26/2019 21:29	WG1317370
Carbon disulfide	U		0.101	0.500	1	07/26/2019 21:29	WG1317370
Carbon tetrachloride	U		0.159	0.500	1	07/26/2019 21:29	WG1317370

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MW-148-072219
Collected date/time: 07/22/19 10:05

SAMPLE RESULTS - 03

L1121210

Volatile Organic Compounds (GC/MS) by Method 8260C

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	07/26/2019 21:29	WG1317370	
Chlorodibromomethane	U		0.128	0.500	1	07/26/2019 21:29	WG1317370	
Chloroethane	U		0.141	2.50	1	07/26/2019 21:29	WG1317370	
Chloroform	U		0.0860	0.500	1	07/26/2019 21:29	WG1317370	
Chloromethane	U		0.153	1.25	1	07/26/2019 21:29	WG1317370	
2-Chlorotoluene	U		0.111	0.500	1	07/26/2019 21:29	WG1317370	
4-Chlorotoluene	U		0.0972	0.500	1	07/26/2019 21:29	WG1317370	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/26/2019 21:29	WG1317370	
1,2-Dibromoethane	U		0.193	0.500	1	07/26/2019 21:29	WG1317370	
Dibromomethane	U		0.117	0.500	1	07/26/2019 21:29	WG1317370	
1,2-Dichlorobenzene	U		0.101	0.500	1	07/26/2019 21:29	WG1317370	
1,3-Dichlorobenzene	U		0.130	0.500	1	07/26/2019 21:29	WG1317370	
1,4-Dichlorobenzene	U		0.121	0.500	1	07/26/2019 21:29	WG1317370	
Dichlorodifluoromethane	U		0.127	2.50	1	07/26/2019 21:29	WG1317370	
1,1-Dichloroethane	U		0.114	0.500	1	07/26/2019 21:29	WG1317370	
1,2-Dichloroethane	U		0.108	0.500	1	07/26/2019 21:29	WG1317370	
1,1-Dichloroethene	U		0.188	0.500	1	07/26/2019 21:29	WG1317370	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/26/2019 21:29	WG1317370	
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/26/2019 21:29	WG1317370	
1,2-Dichloropropane	U		0.190	0.500	1	07/26/2019 21:29	WG1317370	
1,1-Dichloropropene	U		0.128	0.500	1	07/26/2019 21:29	WG1317370	
1,3-Dichloropropane	U		0.147	1.00	1	07/26/2019 21:29	WG1317370	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/26/2019 21:29	WG1317370	
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/26/2019 21:29	WG1317370	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/26/2019 21:29	WG1317370	
2,2-Dichloropropane	U		0.0929	0.500	1	07/26/2019 21:29	WG1317370	
Di-isopropyl ether	U		0.0924	0.500	1	07/26/2019 21:29	WG1317370	
Ethylbenzene	U		0.158	0.500	1	07/26/2019 21:29	WG1317370	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/26/2019 21:29	WG1317370	
2-Hexanone	U		0.757	5.00	1	07/26/2019 21:29	WG1317370	
n-Hexane	U		0.305	5.00	1	07/26/2019 21:29	WG1317370	
Iodomethane	U		0.377	10.0	1	07/26/2019 21:29	WG1317370	
Isopropylbenzene	U		0.126	0.500	1	07/26/2019 21:29	WG1317370	
p-Isopropyltoluene	U		0.138	0.500	1	07/26/2019 21:29	WG1317370	
2-Butanone (MEK)	U		1.28	5.00	1	07/26/2019 21:29	WG1317370	
Methylene Chloride	U		1.07	2.50	1	07/26/2019 21:29	WG1317370	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/26/2019 21:29	WG1317370	
Methyl tert-butyl ether	U		0.102	0.500	1	07/26/2019 21:29	WG1317370	
Naphthalene	U		0.174	2.50	1	07/26/2019 21:29	WG1317370	
n-Propylbenzene	U		0.162	0.500	1	07/26/2019 21:29	WG1317370	
Styrene	U		0.117	0.500	1	07/26/2019 21:29	WG1317370	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/26/2019 21:29	WG1317370	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/26/2019 21:29	WG1317370	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/26/2019 21:29	WG1317370	
Tetrachloroethene	0.415 U	B J	0.199	0.500	1	07/26/2019 21:29	WG1317370	
Toluene	U		0.412	0.500	1	07/26/2019 21:29	WG1317370	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/26/2019 21:29	WG1317370	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/26/2019 21:29	WG1317370	
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/26/2019 21:29	WG1317370	
1,1,2-Trichloroethane	U		0.186	0.500	1	07/26/2019 21:29	WG1317370	
Trichloroethene	U		0.153	0.500	1	07/26/2019 21:29	WG1317370	
Trichlorofluoromethane	U		0.130	2.50	1	07/26/2019 21:29	WG1317370	
1,2,3-Trichloropropane	U		0.247	2.50	1	07/26/2019 21:29	WG1317370	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/26/2019 21:29	WG1317370	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/26/2019 21:29	WG1317370	JC 8/6/19
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/26/2019 21:29	WG1317370	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U			0.645	5.00	1	07/26/2019 21:29	WG1317370
Vinyl chloride	0.253	J	J	0.118	0.500	1	07/26/2019 21:29	WG1317370
Xylenes, Total	U			0.316	1.50	1	07/26/2019 21:29	WG1317370
(S) Toluene-d8	*107*				*80.0-120*		*07/26/2019 21:29*	WG1317370
(S) 4-Bromofluorobenzene	*103*				*77.0-126*		*07/26/2019 21:29*	WG1317370
(S) 1,2-Dichloroethane-d4	*106*				*70.0-130*		*07/26/2019 21:29*	WG1317370

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	160000		2710	20000	1	07/26/2019 16:19	WG1317446

Sample Narrative:

L1121210-04 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	8310		51.9	1000	1	07/23/2019 18:21	WG1315944
Nitrate	U		22.7	100	1	07/23/2019 18:21	WG1315944
Sulfate	6780		77.4	5000	1	07/23/2019 18:21	WG1315944

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1840	~~B~~	102	1000	1	07/23/2019 23:38	WG1315948

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	1670		15.0	100	1	07/23/2019 20:29	WG1316057
Manganese	325		0.250	5.00	1	07/23/2019 20:29	WG1316057

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 07:50	WG1317068
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/25/2019 07:50*	WG1317068

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	27.0		0.287	0.678	1	07/26/2019 11:29	WG1317907
Ethane	U		0.296	1.29	1	07/26/2019 11:29	WG1317907
Ethene	U		0.422	1.27	1	07/26/2019 11:29	WG1317907

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.98 J	J	1.05	25.0	1	07/25/2019 12:38	WG1317389
Acrylonitrile	U		0.873	5.00	1	07/25/2019 12:38	WG1317389
Benzene	0.177 J	J	0.0896	0.500	1	07/25/2019 12:38	WG1317389
Bromobenzene	U		0.133	0.500	1	07/25/2019 12:38	WG1317389
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 12:38	WG1317389
Bromochloromethane	U		0.145	0.500	1	07/25/2019 12:38	WG1317389
Bromoform	U		0.186	0.500	1	07/25/2019 12:38	WG1317389
Bromomethane	U		0.157	2.50	1	07/25/2019 12:38	WG1317389
n-Butylbenzene	0.162 J	J	0.143	0.500	1	07/25/2019 12:38	WG1317389
sec-Butylbenzene	0.159 J	J	0.134	0.500	1	07/25/2019 12:38	WG1317389
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 12:38	WG1317389
Carbon disulfide	0.250 J	J	0.101	0.500	1	07/25/2019 12:38	WG1317389
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 12:38	WG1317389

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U			0.140	0.500	1	07/25/2019 12:38	WG1317389
Chlorodibromomethane	U			0.128	0.500	1	07/25/2019 12:38	WG1317389
Chloroethane	U			0.141	2.50	1	07/25/2019 12:38	WG1317389
Chloroform	U			0.0860	0.500	1	07/25/2019 12:38	WG1317389
Chloromethane	U			0.153	1.25	1	07/25/2019 12:38	WG1317389
2-Chlorotoluene	U			0.111	0.500	1	07/25/2019 12:38	WG1317389
4-Chlorotoluene	U			0.0972	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	07/25/2019 12:38	WG1317389
1,2-Dibromoethane	U			0.193	0.500	1	07/25/2019 12:38	WG1317389
Dibromomethane	U			0.117	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dichlorobenzene	U			0.101	0.500	1	07/25/2019 12:38	WG1317389
1,3-Dichlorobenzene	U			0.130	0.500	1	07/25/2019 12:38	WG1317389
1,4-Dichlorobenzene	U			0.121	0.500	1	07/25/2019 12:38	WG1317389
Dichlorodifluoromethane	U			0.127	2.50	1	07/25/2019 12:38	WG1317389
1,1-Dichloroethane	U			0.114	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dichloroethane	U			0.108	0.500	1	07/25/2019 12:38	WG1317389
1,1-Dichloroethene	U			0.188	0.500	1	07/25/2019 12:38	WG1317389
cis-1,2-Dichloroethene	0.384	J	J	0.0933	0.500	1	07/25/2019 12:38	WG1317389
trans-1,2-Dichloroethene	U			0.152	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dichloropropane	U			0.190	0.500	1	07/25/2019 12:38	WG1317389
1,1-Dichloropropene	U			0.128	0.500	1	07/25/2019 12:38	WG1317389
1,3-Dichloropropane	U			0.147	1.00	1	07/25/2019 12:38	WG1317389
cis-1,3-Dichloropropene	U			0.0976	0.500	1	07/25/2019 12:38	WG1317389
trans-1,3-Dichloropropene	U			0.222	0.500	1	07/25/2019 12:38	WG1317389
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	07/25/2019 12:38	WG1317389
2,2-Dichloropropane	U			0.0929	0.500	1	07/25/2019 12:38	WG1317389
Di-isopropyl ether	U			0.0924	0.500	1	07/25/2019 12:38	WG1317389
Ethylbenzene	0.227	J	J	0.158	0.500	1	07/25/2019 12:38	WG1317389
Hexachloro-1,3-butadiene	U			0.157	1.00	1	07/25/2019 12:38	WG1317389
2-Hexanone	U			0.757	5.00	1	07/25/2019 12:38	WG1317389
n-Hexane	U			0.305	5.00	1	07/25/2019 12:38	WG1317389
Iodomethane	U			0.377	10.0	1	07/25/2019 12:38	WG1317389
Isopropylbenzene	0.134	J	J	0.126	0.500	1	07/25/2019 12:38	WG1317389
p-Isopropyltoluene	U			0.138	0.500	1	07/25/2019 12:38	WG1317389
2-Butanone (MEK)	U			1.28	5.00	1	07/25/2019 12:38	WG1317389
Methylene Chloride	U			1.07	2.50	1	07/25/2019 12:38	WG1317389
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	07/25/2019 12:38	WG1317389
Methyl tert-butyl ether	U			0.102	0.500	1	07/25/2019 12:38	WG1317389
Naphthalene	U			0.174	2.50	1	07/25/2019 12:38	WG1317389
n-Propylbenzene	U			0.162	0.500	1	07/25/2019 12:38	WG1317389
Styrene	U			0.117	0.500	1	07/25/2019 12:38	WG1317389
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	07/25/2019 12:38	WG1317389
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	07/25/2019 12:38	WG1317389
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	07/25/2019 12:38	WG1317389
Tetrachloroethene	U			0.199	0.500	1	07/30/2019 14:04	WG1319848
Toluene	0.716			0.412	0.500	1	07/25/2019 12:38	WG1317389
1,2,3-Trichlorobenzene	U			0.164	0.500	1	07/25/2019 12:38	WG1317389
1,2,4-Trichlorobenzene	U			0.355	0.500	1	07/25/2019 12:38	WG1317389
1,1,1-Trichloroethane	U			0.0940	0.500	1	07/25/2019 12:38	WG1317389
1,1,2-Trichloroethane	U			0.186	0.500	1	07/25/2019 12:38	WG1317389
Trichloroethene	0.190	J	J	0.153	0.500	1	07/25/2019 12:38	WG1317389
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	07/25/2019 12:38	WG1317389
1,2,3-Trichloropropane	U			0.247	2.50	1	07/25/2019 12:38	WG1317389
1,2,4-Trimethylbenzene	0.225	J	J	0.123	0.500	1	07/25/2019 12:38	WG1317389
1,2,3-Trimethylbenzene	0.139	J	J	0.0739	0.500	1	07/25/2019 12:38	WG1317389
1,3,5-Trimethylbenzene	0.141	J	J	0.124	0.500	1	07/25/2019 12:38	WG1317389

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Vinyl acetate	U			0.645	5.00	1	07/25/2019 12:38	WG1317389
Vinyl chloride	0.235	J	J	0.118	0.500	1	07/25/2019 12:38	WG1317389
Xylenes, Total	0.819	J	J	0.316	1.50	1	07/25/2019 12:38	WG1317389
(S) Toluene-d8	*106*				*80.0-120*		*07/25/2019 12:38*	WG1317389
(S) Toluene-d8	*106*				*80.0-120*		*07/30/2019 14:04*	WG1319848
(S) 4-Bromofluorobenzene	*104*				*77.0-126*		*07/25/2019 12:38*	WG1317389
(S) 4-Bromofluorobenzene	*100*				*77.0-126*		*07/30/2019 14:04*	WG1319848
(S) 1,2-Dichloroethane-d4	*105*				*70.0-130*		*07/25/2019 12:38*	WG1317389
(S) 1,2-Dichloroethane-d4	*107*				*70.0-130*		*07/30/2019 14:04*	WG1319848

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	464000		2710	20000	1	07/26/2019 16:35	WG1317446

Sample Narrative:

L1121210-05 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	43700		51.9	1000	1	07/23/2019 18:37	WG1315944
Nitrate	U		22.7	100	1	07/23/2019 18:37	WG1315944
Sulfate	46700		77.4	5000	1	07/23/2019 18:37	WG1315944

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14900		102	1000	1	07/23/2019 23:55	WG1315948

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	11400		15.0	100	1	07/23/2019 21:26	WG1316057
Manganese	1730		1.25	25.0	5	07/23/2019 21:51	WG1316057

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3880 J+		31.6	100	1	07/25/2019 08:13	WG1317068
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/25/2019 08:13*	WG1317068

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	5090		0.287	0.678	1	07/26/2019 11:32	WG1317907
Ethane	45.8		0.296	1.29	1	07/26/2019 11:32	WG1317907
Ethene	56.2		0.422	1.27	1	07/26/2019 11:32	WG1317907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	2.65 J	J	1.05	25.0	1	07/25/2019 13:26	WG1317389	
Acrylonitrile	U		0.873	5.00	1	07/25/2019 13:26	WG1317389	
Benzene	0.327 J	J	0.0896	0.500	1	07/25/2019 13:26	WG1317389	
Bromobenzene	U		0.133	0.500	1	07/25/2019 13:26	WG1317389	
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 13:26	WG1317389	
Bromochloromethane	U		0.145	0.500	1	07/25/2019 13:26	WG1317389	
Bromoform	U		0.186	0.500	1	07/25/2019 13:26	WG1317389	
Bromomethane	U		0.157	2.50	1	07/25/2019 13:26	WG1317389	
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 13:26	WG1317389	
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 13:26	WG1317389	
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 13:26	WG1317389	
Carbon disulfide	U		0.101	0.500	1	07/25/2019 13:26	WG1317389	JC 8/6/19
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 13:26	WG1317389	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 13:26	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 13:26	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 13:26	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 13:26	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 13:26	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 13:26	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 13:26	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 13:26	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 13:26	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 13:26	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 13:26	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 13:26	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 13:26	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 13:26	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 13:26	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 13:26	WG1317389
1,1-Dichloroethene	17.5		0.188	0.500	1	07/25/2019 13:26	WG1317389
cis-1,2-Dichloroethene	4530		9.33	50.0	100	07/30/2019 14:26	WG1319848
trans-1,2-Dichloroethene	18.4		0.152	0.500	1	07/25/2019 13:26	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 13:26	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 13:26	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 13:26	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 13:26	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 13:26	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 13:26	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 13:26	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 13:26	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 13:26	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 13:26	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 13:26	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 13:26	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 13:26	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 13:26	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 13:26	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 13:26	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 13:26	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 13:26	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 13:26	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 13:26	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 13:26	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 13:26	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 13:26	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 13:26	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 13:26	WG1317389
Tetrachloroethene	U		19.9	50.0	100	07/30/2019 14:26	WG1319848
Toluene	U		0.412	0.500	1	07/25/2019 13:26	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 13:26	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 13:26	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 13:26	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 13:26	WG1317389
Trichloroethene	27.6		0.153	0.500	1	07/25/2019 13:26	WG1317389
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/25/2019 13:26	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 13:26	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 13:26	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 13:26	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 13:26	WG1317389

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 13:26	WG1317389
Vinyl chloride	666		11.8	50.0	100	07/30/2019 14:26	WG1319848
Xylenes, Total	U		0.316	1.50	1	07/25/2019 13:26	WG1317389
(S) Toluene-d8	*108*			*80.0-120*		*07/25/2019 13:26*	WG1317389
(S) Toluene-d8	*105*			*80.0-120*		*07/30/2019 14:26*	WG1319848
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/25/2019 13:26*	WG1317389
(S) 4-Bromofluorobenzene	*99.3*			*77.0-126*		*07/30/2019 14:26*	WG1319848
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/25/2019 13:26*	WG1317389
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/30/2019 14:26*	WG1319848

Sample Narrative:

L1121210-05 WG1317389, WG1319848: Not all compounds reportable at lower dilution.

L1121210-05 WG1317389, WG1319848: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 8/6/19

MW-156-072219

Collected date/time: 07/22/19 14:20

SAMPLE RESULTS - 06

L1121210

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	606000		2710	20000	1	07/26/2019 16:42	WG1317446

Sample Narrative:

L1121210-06 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	45500		51.9	1000	1	07/23/2019 19:27	WG1315944
Nitrate	U		22.7	100	1	07/23/2019 19:27	WG1315944
Sulfate	181000		387	25000	5	07/24/2019 08:57	WG1315944

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	42000		102	1000	1	07/25/2019 00:00	WG1316685

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	19900		15.0	100	1	07/23/2019 21:30	WG1316057
Manganese	8680		2.50	50.0	10	07/23/2019 21:56	WG1316057

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3100 J+		31.6	100	1	07/25/2019 08:37	WG1317068
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*07/25/2019 08:37*	WG1317068

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2340		0.287	0.678	1	07/26/2019 11:40	WG1317907
Ethane	50.0		0.296	1.29	1	07/26/2019 11:40	WG1317907
Ethene	U		0.422	1.27	1	07/26/2019 11:40	WG1317907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	4.94 J	J	1.05	25.0	1	07/25/2019 14:13	WG1317389
Acrylonitrile	U		0.873	5.00	1	07/25/2019 14:13	WG1317389
Benzene	0.492 J	J	0.0896	0.500	1	07/25/2019 14:13	WG1317389
Bromobenzene	U		0.133	0.500	1	07/25/2019 14:13	WG1317389
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 14:13	WG1317389
Bromochloromethane	U		0.145	0.500	1	07/25/2019 14:13	WG1317389
Bromoform	U		0.186	0.500	1	07/25/2019 14:13	WG1317389
Bromomethane	U		0.157	2.50	1	07/25/2019 14:13	WG1317389
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 14:13	WG1317389
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 14:13	WG1317389
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 14:13	WG1317389
Carbon disulfide	U		0.101	0.500	1	07/25/2019 14:13	WG1317389
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 14:13	WG1317389

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 14:13	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 14:13	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 14:13	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 14:13	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 14:13	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 14:13	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 14:13	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 14:13	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 14:13	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 14:13	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 14:13	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 14:13	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 14:13	WG1317389
1,1-Dichloroethene	13.2		0.188	0.500	1	07/25/2019 14:13	WG1317389
cis-1,2-Dichloroethene	2310		4.66	25.0	50	07/30/2019 18:58	WG1319848
trans-1,2-Dichloroethene	14.5		0.152	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 14:13	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 14:13	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 14:13	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 14:13	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 14:13	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 14:13	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 14:13	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 14:13	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 14:13	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 14:13	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 14:13	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 14:13	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 14:13	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 14:13	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 14:13	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 14:13	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 14:13	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 14:13	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 14:13	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 14:13	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 14:13	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 14:13	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 14:13	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 14:13	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 14:13	WG1317389
Tetrachloroethene	232		9.95	25.0	50	07/30/2019 18:58	WG1319848
Toluene	U		0.412	0.500	1	07/25/2019 14:13	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 14:13	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 14:13	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 14:13	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 14:13	WG1317389
Trichloroethene	1270		7.65	25.0	50	07/30/2019 18:58	WG1319848
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/25/2019 14:13	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 14:13	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 14:13	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 14:13	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 14:13	WG1317389

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 14:13	WG1317389
Vinyl chloride	82.0		0.118	0.500	1	07/25/2019 14:13	WG1317389
Xylenes, Total	U		0.316	1.50	1	07/25/2019 14:13	WG1317389
(S) Toluene-d8	*108*			*80.0-120*		*07/25/2019 14:13*	WG1317389
(S) Toluene-d8	*106*			*80.0-120*		*07/30/2019 18:58*	WG1319848
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/25/2019 14:13*	WG1317389
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*07/30/2019 18:58*	WG1319848
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*07/25/2019 14:13*	WG1317389
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*07/30/2019 18:58*	WG1319848

JC 8/6/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	527000		2710	20000	1	07/26/2019 16:49	WG1317446

Sample Narrative:

L1121210-07 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	40300		51.9	1000	1	07/23/2019 19:43	WG1315944
Nitrate	U		22.7	100	1	07/23/2019 19:43	WG1315944
Sulfate	30300		77.4	5000	1	07/23/2019 19:43	WG1315944

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	18900		102	1000	1	07/25/2019 00:15	WG1316685

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3080		15.0	100	1	07/23/2019 21:35	WG1316057
Manganese	1040		0.250	5.00	1	07/23/2019 21:35	WG1316057

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	210 J+		31.6	100	1	07/25/2019 09:01	WG1317068
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/25/2019 09:01*	WG1317068

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	16400		2.87	6.78	10	07/26/2019 14:42	WG1317908
Ethane	133		0.296	1.29	1	07/26/2019 11:44	WG1317907
Ethene	81.5		0.422	1.27	1	07/26/2019 11:44	WG1317907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.28 J	J	1.05	25.0	1	07/25/2019 14:36	WG1317389
Acrylonitrile	U		0.873	5.00	1	07/25/2019 14:36	WG1317389
Benzene	0.188 J	J	0.0896	0.500	1	07/25/2019 14:36	WG1317389
Bromobenzene	U		0.133	0.500	1	07/25/2019 14:36	WG1317389
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 14:36	WG1317389
Bromochloromethane	U		0.145	0.500	1	07/25/2019 14:36	WG1317389
Bromoform	U		0.186	0.500	1	07/25/2019 14:36	WG1317389
Bromomethane	U		0.157	2.50	1	07/25/2019 14:36	WG1317389
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 14:36	WG1317389
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 14:36	WG1317389
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 14:36	WG1317389
Carbon disulfide	U		0.101	0.500	1	07/25/2019 14:36	WG1317389
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 14:36	WG1317389

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MW-107-072219

Collected date/time: 07/22/19 14:50

SAMPLE RESULTS - 07

L1121210

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U			0.140	0.500	1	07/25/2019 14:36	WG1317389
Chlorodibromomethane	U			0.128	0.500	1	07/25/2019 14:36	WG1317389
Chloroethane	3.61			0.141	2.50	1	07/25/2019 14:36	WG1317389
Chloroform	U			0.0860	0.500	1	07/25/2019 14:36	WG1317389
Chloromethane	U			0.153	1.25	1	07/25/2019 14:36	WG1317389
2-Chlorotoluene	U			0.111	0.500	1	07/25/2019 14:36	WG1317389
4-Chlorotoluene	U			0.0972	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	07/25/2019 14:36	WG1317389
1,2-Dibromoethane	U			0.193	0.500	1	07/25/2019 14:36	WG1317389
Dibromomethane	U			0.117	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dichlorobenzene	U			0.101	0.500	1	07/25/2019 14:36	WG1317389
1,3-Dichlorobenzene	U			0.130	0.500	1	07/25/2019 14:36	WG1317389
1,4-Dichlorobenzene	U			0.121	0.500	1	07/25/2019 14:36	WG1317389
Dichlorodifluoromethane	U			0.127	2.50	1	07/25/2019 14:36	WG1317389
1,1-Dichloroethane	U			0.114	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dichloroethane	U			0.108	0.500	1	07/25/2019 14:36	WG1317389
1,1-Dichloroethene	0.825			0.188	0.500	1	07/25/2019 14:36	WG1317389
cis-1,2-Dichloroethene	290			0.933	5.00	10	07/30/2019 15:10	WG1319848
trans-1,2-Dichloroethene	7.08			0.152	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dichloropropane	U			0.190	0.500	1	07/25/2019 14:36	WG1317389
1,1-Dichloropropene	U			0.128	0.500	1	07/25/2019 14:36	WG1317389
1,3-Dichloropropane	U			0.147	1.00	1	07/25/2019 14:36	WG1317389
cis-1,3-Dichloropropene	U			0.0976	0.500	1	07/25/2019 14:36	WG1317389
trans-1,3-Dichloropropene	U			0.222	0.500	1	07/25/2019 14:36	WG1317389
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	07/25/2019 14:36	WG1317389
2,2-Dichloropropane	U			0.0929	0.500	1	07/25/2019 14:36	WG1317389
Di-isopropyl ether	U			0.0924	0.500	1	07/25/2019 14:36	WG1317389
Ethylbenzene	U			0.158	0.500	1	07/25/2019 14:36	WG1317389
Hexachloro-1,3-butadiene	U			0.157	1.00	1	07/25/2019 14:36	WG1317389
2-Hexanone	U			0.757	5.00	1	07/25/2019 14:36	WG1317389
n-Hexane	U			0.305	5.00	1	07/25/2019 14:36	WG1317389
Iodomethane	U			0.377	10.0	1	07/25/2019 14:36	WG1317389
Isopropylbenzene	U			0.126	0.500	1	07/25/2019 14:36	WG1317389
p-Isopropyltoluene	U			0.138	0.500	1	07/25/2019 14:36	WG1317389
2-Butanone (MEK)	U			1.28	5.00	1	07/25/2019 14:36	WG1317389
Methylene Chloride	U			1.07	2.50	1	07/25/2019 14:36	WG1317389
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	07/25/2019 14:36	WG1317389
Methyl tert-butyl ether	U			0.102	0.500	1	07/25/2019 14:36	WG1317389
Naphthalene	U			0.174	2.50	1	07/25/2019 14:36	WG1317389
n-Propylbenzene	U			0.162	0.500	1	07/25/2019 14:36	WG1317389
Styrene	U			0.117	0.500	1	07/25/2019 14:36	WG1317389
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	07/25/2019 14:36	WG1317389
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	07/25/2019 14:36	WG1317389
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	07/25/2019 14:36	WG1317389
Tetrachloroethene	U			1.99	5.00	10	07/30/2019 15:10	WG1319848
Toluene	0.758			0.412	0.500	1	07/25/2019 14:36	WG1317389
1,2,3-Trichlorobenzene	U			0.164	0.500	1	07/25/2019 14:36	WG1317389
1,2,4-Trichlorobenzene	U			0.355	0.500	1	07/25/2019 14:36	WG1317389
1,1,1-Trichloroethane	U			0.0940	0.500	1	07/25/2019 14:36	WG1317389
1,1,2-Trichloroethane	U			0.186	0.500	1	07/25/2019 14:36	WG1317389
Trichloroethene	2.62	J	J	1.53	5.00	10	07/30/2019 15:10	WG1319848
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	07/25/2019 14:36	WG1317389
1,2,3-Trichloropropane	U			0.247	2.50	1	07/25/2019 14:36	WG1317389
1,2,4-Trimethylbenzene	0.144	J	J	0.123	0.500	1	07/25/2019 14:36	WG1317389
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	07/25/2019 14:36	WG1317389
1,3,5-Trimethylbenzene	U			0.124	0.500	1	07/25/2019 14:36	WG1317389

JC 8/6/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-107-072219

Collected date/time: 07/22/19 14:50

SAMPLE RESULTS - 07

L1121210

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 14:36	WG1317389
Vinyl chloride	307		1.18	5.00	10	07/30/2019 15:10	WG1319848
Xylenes, Total	0.609 J	J	0.316	1.50	1	07/25/2019 14:36	WG1317389
(S) Toluene-d8	*106*			*80.0-120*		*07/25/2019 14:36*	WG1317389
(S) Toluene-d8	*106*			*80.0-120*		*07/30/2019 15:10*	WG1319848
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/25/2019 14:36*	WG1317389
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/30/2019 15:10*	WG1319848
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/25/2019 14:36*	WG1317389
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/30/2019 15:10*	WG1319848

Sample Narrative:

L1121210-07 WG1317389, WG1319848: Not all compounds reportable at lower dilution.

L1121210-07 WG1317389, WG1319848: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

JC 8/6/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 13:13	WG1317381
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/25/2019 13:13*	WG1317381

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/25/2019 00:05	WG1317007
Acrylonitrile	U		0.873	5.00	1	07/25/2019 00:05	WG1317007
Benzene	U		0.0896	0.500	1	07/25/2019 00:05	WG1317007
Bromobenzene	U		0.133	0.500	1	07/25/2019 00:05	WG1317007
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 00:05	WG1317007
Bromochloromethane	U		0.145	0.500	1	07/25/2019 00:05	WG1317007
Bromoform	U		0.186	0.500	1	07/25/2019 00:05	WG1317007
Bromomethane	U		0.157	2.50	1	07/25/2019 00:05	WG1317007
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 00:05	WG1317007
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 00:05	WG1317007
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 00:05	WG1317007
Carbon disulfide	U		0.101	0.500	1	07/25/2019 00:05	WG1317007
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 00:05	WG1317007
Chlorobenzene	U		0.140	0.500	1	07/25/2019 00:05	WG1317007
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 00:05	WG1317007
Chloroethane	U		0.141	2.50	1	07/25/2019 00:05	WG1317007
Chloroform	U		0.0860	0.500	1	07/25/2019 00:05	WG1317007
Chloromethane	U		0.153	1.25	1	07/25/2019 00:05	WG1317007
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 00:05	WG1317007
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 00:05	WG1317007
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 00:05	WG1317007
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 00:05	WG1317007
Dibromomethane	U		0.117	0.500	1	07/25/2019 00:05	WG1317007
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 00:05	WG1317007
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 00:05	WG1317007
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 00:05	WG1317007
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 00:05	WG1317007
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 00:05	WG1317007
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 00:05	WG1317007
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 00:05	WG1317007
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/25/2019 00:05	WG1317007
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 00:05	WG1317007
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 00:05	WG1317007
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 00:05	WG1317007
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 00:05	WG1317007
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 00:05	WG1317007
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 00:05	WG1317007
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 00:05	WG1317007
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 00:05	WG1317007
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 00:05	WG1317007
Ethylbenzene	U		0.158	0.500	1	07/25/2019 00:05	WG1317007
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 00:05	WG1317007
2-Hexanone	U		0.757	5.00	1	07/25/2019 00:05	WG1317007
n-Hexane	U		0.305	5.00	1	07/25/2019 00:05	WG1317007
Iodomethane	U		0.377	10.0	1	07/25/2019 00:05	WG1317007
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 00:05	WG1317007
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 00:05	WG1317007
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 00:05	WG1317007

JC 8/6/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/25/2019 00:05	WG1317007
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 00:05	WG1317007
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 00:05	WG1317007
Naphthalene	U		0.174	2.50	1	07/25/2019 00:05	WG1317007
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 00:05	WG1317007
Styrene	U		0.117	0.500	1	07/25/2019 00:05	WG1317007
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 00:05	WG1317007
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 00:05	WG1317007
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 00:05	WG1317007
Tetrachloroethene	1.07	B	0.199	0.500	1	07/25/2019 00:05	WG1317007
Toluene	U		0.412	0.500	1	07/25/2019 00:05	WG1317007
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 00:05	WG1317007
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 00:05	WG1317007
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 00:05	WG1317007
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 00:05	WG1317007
Trichloroethene	U		0.153	0.500	1	07/25/2019 00:05	WG1317007
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 00:05	WG1317007
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 00:05	WG1317007
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 00:05	WG1317007
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 00:05	WG1317007
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 00:05	WG1317007
Vinyl acetate	U		0.645	5.00	1	07/25/2019 00:05	WG1317007
Vinyl chloride	U		0.118	0.500	1	07/25/2019 00:05	WG1317007
Xylenes, Total	U		0.316	1.50	1	07/25/2019 00:05	WG1317007
(S) Toluene-d8	*106*			*80.0-120*		*07/25/2019 00:05*	WG1317007
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*		*07/25/2019 00:05*	WG1317007
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/25/2019 00:05*	WG1317007

Sample Narrative:

L1121210-08 WG1317007: PCE detection likely from instrument contamination/carryover, no sample remaining for re-analysis.

JC 8/6/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	182000		2710	20000	1	07/26/2019 20:29	WG1317887

Sample Narrative:

L1121576-01 WG1317887: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	8280		51.9	1000	1	07/24/2019 15:35	WG1316545
Nitrate	U		22.7	100	1	07/24/2019 15:35	WG1316545
Sulfate	2640 J	J	77.4	5000	1	07/24/2019 15:35	WG1316545

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1950	~~B P1~~	102	1000	1	07/25/2019 17:42	WG1317639

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2680		15.0	100	1	07/28/2019 19:27	WG1317876
Manganese	408	~~V~~	0.250	5.00	1	07/28/2019 19:27	WG1317876

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 16:10	WG1318107
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*07/26/2019 16:10*	WG1318107

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	535		0.287	0.678	1	07/26/2019 12:43	WG1317907
Ethane	U		0.296	1.29	1	07/26/2019 12:43	WG1317907
Ethene	U		0.422	1.27	1	07/26/2019 12:43	WG1317907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.98 U	J	1.05	25.0	1	07/25/2019 14:58	WG1317389
Acrylonitrile	U		0.873	5.00	1	07/25/2019 14:58	WG1317389
Benzene	U		0.0896	0.500	1	07/25/2019 14:58	WG1317389
Bromobenzene	U		0.133	0.500	1	07/25/2019 14:58	WG1317389
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 14:58	WG1317389
Bromochloromethane	U		0.145	0.500	1	07/25/2019 14:58	WG1317389
Bromoform	U		0.186	0.500	1	07/25/2019 14:58	WG1317389
Bromomethane	U		0.157	2.50	1	07/25/2019 14:58	WG1317389
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 14:58	WG1317389
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 14:58	WG1317389
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 14:58	WG1317389
Carbon disulfide	U		0.101	0.500	1	07/25/2019 14:58	WG1317389
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 14:58	WG1317389

JC 8/7/19

MW-160-072319

Collected date/time: 07/23/19 06:25

SAMPLE RESULTS - 01

L1121576

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 14:58	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 14:58	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 14:58	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 14:58	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 14:58	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 14:58	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 14:58	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 14:58	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 14:58	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 14:58	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 14:58	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 14:58	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 14:58	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 14:58	WG1317389
cis-1,2-Dichloroethene	0.217 J	J	0.0933	0.500	1	07/30/2019 19:52	WG1319848
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 14:58	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 14:58	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 14:58	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 14:58	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 14:58	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 14:58	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 14:58	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 14:58	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 14:58	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 14:58	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 14:58	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 14:58	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 14:58	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 14:58	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 14:58	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 14:58	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 14:58	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 14:58	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 14:58	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 14:58	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 14:58	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 14:58	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 14:58	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 14:58	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 14:58	WG1317389
Tetrachloroethene	U		0.199	0.500	1	07/30/2019 19:52	WG1319848
Toluene	U		0.412	0.500	1	07/25/2019 14:58	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 14:58	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 14:58	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 14:58	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 14:58	WG1317389
Trichloroethene	U		0.153	0.500	1	07/30/2019 19:52	WG1319848
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/25/2019 14:58	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 14:58	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 14:58	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 14:58	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 14:58	WG1317389

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 14:58	WG1317389
Vinyl chloride	0.326 J	J	0.118	0.500	1	07/30/2019 19:52	WG1319848
Xylenes, Total	U		0.316	1.50	1	07/25/2019 14:58	WG1317389
(S) Toluene-d8	*107*			*80.0-120*		*07/25/2019 14:58*	WG1317389
(S) Toluene-d8	*107*			*80.0-120*		*07/30/2019 19:52*	WG1319848
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/25/2019 14:58*	WG1317389
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/30/2019 19:52*	WG1319848
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/25/2019 14:58*	WG1317389
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/30/2019 19:52*	WG1319848

JC 8/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	242000		2710	20000	1	07/26/2019 20:43	WG1317887

Sample Narrative:

L1121576-02 WG1317887: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	33200		51.9	1000	1	07/24/2019 15:51	WG1316545
Nitrate	U		22.7	100	1	07/24/2019 15:51	WG1316545
Sulfate	78900		77.4	5000	1	07/24/2019 15:51	WG1316545

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2730		102	1000	1	07/25/2019 18:17	WG1317639

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	614		15.0	100	1	07/28/2019 19:50	WG1317876
Manganese	323		0.250	5.00	1	07/28/2019 19:50	WG1317876

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 16:34	WG1318107
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*07/26/2019 16:34*	WG1318107

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	327		0.287	0.678	1	07/26/2019 12:54	WG1317907
Ethane	3.96		0.296	1.29	1	07/26/2019 12:54	WG1317907
Ethene	7.04		0.422	1.27	1	07/26/2019 12:54	WG1317907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/25/2019 15:20	WG1317389
Acrylonitrile	U		0.873	5.00	1	07/25/2019 15:20	WG1317389
Benzene	U		0.0896	0.500	1	07/25/2019 15:20	WG1317389
Bromobenzene	U		0.133	0.500	1	07/25/2019 15:20	WG1317389
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 15:20	WG1317389
Bromochloromethane	U		0.145	0.500	1	07/25/2019 15:20	WG1317389
Bromoform	U		0.186	0.500	1	07/25/2019 15:20	WG1317389
Bromomethane	U		0.157	2.50	1	07/25/2019 15:20	WG1317389
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 15:20	WG1317389
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 15:20	WG1317389
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 15:20	WG1317389
Carbon disulfide	U		0.101	0.500	1	07/25/2019 15:20	WG1317389
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 15:20	WG1317389

JC 8/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 15:20	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 15:20	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 15:20	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 15:20	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 15:20	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 15:20	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 15:20	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 15:20	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 15:20	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 15:20	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 15:20	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 15:20	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 15:20	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 15:20	WG1317389
cis-1,2-Dichloroethene	0.547		0.0933	0.500	1	07/30/2019 20:14	WG1319848
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 15:20	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 15:20	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 15:20	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 15:20	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 15:20	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 15:20	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 15:20	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 15:20	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 15:20	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 15:20	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 15:20	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 15:20	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 15:20	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 15:20	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 15:20	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 15:20	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 15:20	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 15:20	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 15:20	WG1317389
Naphthalene	0.211 J	J	0.174	2.50	1	07/25/2019 15:20	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 15:20	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 15:20	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 15:20	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 15:20	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 15:20	WG1317389
Tetrachloroethene	U		0.199	0.500	1	07/30/2019 20:14	WG1319848
Toluene	U		0.412	0.500	1	07/25/2019 15:20	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 15:20	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 15:20	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 15:20	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 15:20	WG1317389
Trichloroethene	0.304 J	J	0.153	0.500	1	07/30/2019 20:14	WG1319848
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/25/2019 15:20	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 15:20	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 15:20	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 15:20	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 15:20	WG1317389

JC 8/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 15:20	WG1317389
Vinyl chloride	9.00		0.118	0.500	1	07/25/2019 15:20	WG1317389
Xylenes, Total	U		0.316	1.50	1	07/25/2019 15:20	WG1317389
(S) Toluene-d8	*106*			*80.0-120*		*07/25/2019 15:20*	WG1317389
(S) Toluene-d8	*108*			*80.0-120*		*07/30/2019 20:14*	WG1319848
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*07/25/2019 15:20*	WG1317389
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/30/2019 20:14*	WG1319848
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/25/2019 15:20*	WG1317389
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*07/30/2019 20:14*	WG1319848

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 8/7/19

MW-155-072319

Collected date/time: 07/23/19 09:35

SAMPLE RESULTS - 03

L1121576

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 16:58	WG1318107
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/26/2019 16:58*	WG1318107

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.69 U	J	1.05	25.0	1	07/25/2019 15:41	WG1317389
Acrylonitrile	U		0.873	5.00	1	07/25/2019 15:41	WG1317389
Benzene	U		0.0896	0.500	1	07/25/2019 15:41	WG1317389
Bromobenzene	U		0.133	0.500	1	07/25/2019 15:41	WG1317389
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 15:41	WG1317389
Bromochloromethane	U		0.145	0.500	1	07/25/2019 15:41	WG1317389
Bromoform	U		0.186	0.500	1	07/25/2019 15:41	WG1317389
Bromomethane	U		0.157	2.50	1	07/25/2019 15:41	WG1317389
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 15:41	WG1317389
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 15:41	WG1317389
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 15:41	WG1317389
Carbon disulfide	U		0.101	0.500	1	07/25/2019 15:41	WG1317389
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 15:41	WG1317389
Chlorobenzene	U		0.140	0.500	1	07/25/2019 15:41	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 15:41	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 15:41	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 15:41	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 15:41	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 15:41	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 15:41	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 15:41	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 15:41	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 15:41	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 15:41	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 15:41	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 15:41	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 15:41	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 15:41	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 15:41	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 15:41	WG1317389
cis-1,2-Dichloroethene	12.1		0.0933	0.500	1	07/25/2019 15:41	WG1317389
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 15:41	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 15:41	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 15:41	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 15:41	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 15:41	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 15:41	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 15:41	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 15:41	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 15:41	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 15:41	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 15:41	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 15:41	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 15:41	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 15:41	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 15:41	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 15:41	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 15:41	WG1317389

JC 8/7/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U			1.07	2.50	1	07/25/2019 15:41	WG1317389
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	07/25/2019 15:41	WG1317389
Methyl tert-butyl ether	U			0.102	0.500	1	07/25/2019 15:41	WG1317389
Naphthalene	U			0.174	2.50	1	07/25/2019 15:41	WG1317389
n-Propylbenzene	U			0.162	0.500	1	07/25/2019 15:41	WG1317389
Styrene	U			0.117	0.500	1	07/25/2019 15:41	WG1317389
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	07/25/2019 15:41	WG1317389
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	07/25/2019 15:41	WG1317389
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	07/25/2019 15:41	WG1317389
Tetrachloroethene	92.7			0.199	0.500	1	07/25/2019 15:41	WG1317389
Toluene	U			0.412	0.500	1	07/25/2019 15:41	WG1317389
1,2,3-Trichlorobenzene	U			0.164	0.500	1	07/25/2019 15:41	WG1317389
1,2,4-Trichlorobenzene	U			0.355	0.500	1	07/25/2019 15:41	WG1317389
1,1,1-Trichloroethane	U			0.0940	0.500	1	07/25/2019 15:41	WG1317389
1,1,2-Trichloroethane	U			0.186	0.500	1	07/25/2019 15:41	WG1317389
Trichloroethene	19.9			0.153	0.500	1	07/25/2019 15:41	WG1317389
Trichlorofluoromethane	U	UJ	J0	0.130	2.50	1	07/25/2019 15:41	WG1317389
1,2,3-Trichloropropane	U			0.247	2.50	1	07/25/2019 15:41	WG1317389
1,2,4-Trimethylbenzene	U			0.123	0.500	1	07/25/2019 15:41	WG1317389
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	07/25/2019 15:41	WG1317389
1,3,5-Trimethylbenzene	U			0.124	0.500	1	07/25/2019 15:41	WG1317389
Vinyl acetate	U			0.645	5.00	1	07/25/2019 15:41	WG1317389
Vinyl chloride	0.350	J	J	0.118	0.500	1	07/25/2019 15:41	WG1317389
Xylenes, Total	U			0.316	1.50	1	07/25/2019 15:41	WG1317389
(S) Toluene-d8	*107*				*80.0-120*		*07/25/2019 15:41*	WG1317389
(S) 4-Bromofluorobenzene	*100*				*77.0-126*		*07/25/2019 15:41*	WG1317389
(S) 1,2-Dichloroethane-d4	*105*				*70.0-130*		*07/25/2019 15:41*	WG1317389

JC 8/7/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	965000		2710	20000	1	07/26/2019 20:50	WG1317887

Sample Narrative:

L1121576-04 WG1317887: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	98400		51.9	1000	1	07/24/2019 16:08	WG1316545
Nitrate	U		22.7	100	1	07/24/2019 16:08	WG1316545
Sulfate	3240 J	J	77.4	5000	1	07/24/2019 16:08	WG1316545

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	43400		102	1000	1	07/25/2019 18:33	WG1317639

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	13600		15.0	100	1	07/28/2019 19:54	WG1317876
Manganese	3470		0.250	5.00	1	07/28/2019 19:54	WG1317876

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 17:22	WG1318107
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/26/2019 17:22*	WG1318107

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	25700		2.87	6.78	10	07/26/2019 15:08	WG1318268
Ethane	U		0.296	1.29	1	07/26/2019 12:57	WG1317907
Ethene	15.0		0.422	1.27	1	07/26/2019 12:57	WG1317907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/25/2019 16:03	WG1317389
Acrylonitrile	U		0.873	5.00	1	07/25/2019 16:03	WG1317389
Benzene	U		0.0896	0.500	1	07/25/2019 16:03	WG1317389
Bromobenzene	U		0.133	0.500	1	07/25/2019 16:03	WG1317389
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 16:03	WG1317389
Bromochloromethane	U		0.145	0.500	1	07/25/2019 16:03	WG1317389
Bromoform	U		0.186	0.500	1	07/25/2019 16:03	WG1317389
Bromomethane	U		0.157	2.50	1	07/25/2019 16:03	WG1317389
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 16:03	WG1317389
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 16:03	WG1317389
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 16:03	WG1317389
Carbon disulfide	U		0.101	0.500	1	07/25/2019 16:03	WG1317389
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 16:03	WG1317389

JC 8/7/19

W-MW-02
Collected date/time: 07/23/19 11:50

SAMPLE RESULTS - 04

L1121576

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 16:03	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 16:03	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 16:03	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 16:03	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 16:03	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 16:03	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 16:03	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 16:03	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 16:03	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 16:03	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 16:03	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 16:03	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 16:03	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 16:03	WG1317389
cis-1,2-Dichloroethene	3.30		0.0933	0.500	1	07/30/2019 20:36	WG1319848
trans-1,2-Dichloroethene	0.386 J	J	0.152	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 16:03	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 16:03	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 16:03	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 16:03	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 16:03	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 16:03	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 16:03	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 16:03	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 16:03	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 16:03	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 16:03	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 16:03	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 16:03	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 16:03	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 16:03	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 16:03	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 16:03	WG1317389 JC 8/7/19
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 16:03	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 16:03	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 16:03	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 16:03	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 16:03	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 16:03	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 16:03	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 16:03	WG1317389
Tetrachloroethene	U		0.199	0.500	1	07/30/2019 20:36	WG1319848
Toluene	1.35		0.412	0.500	1	07/25/2019 16:03	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 16:03	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 16:03	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 16:03	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 16:03	WG1317389
Trichloroethene	U		0.153	0.500	1	07/30/2019 20:36	WG1319848
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	07/25/2019 16:03	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 16:03	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 16:03	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 16:03	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 16:03	WG1317389

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 16:03	WG1317389
Vinyl chloride	6.79		0.118	0.500	1	07/25/2019 16:03	WG1317389
Xylenes, Total	U		0.316	1.50	1	07/25/2019 16:03	WG1317389
(S) Toluene-d8	*109*			*80.0-120*		*07/25/2019 16:03*	WG1317389
(S) Toluene-d8	*108*			*80.0-120*		*07/30/2019 20:36*	WG1319848
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/25/2019 16:03*	WG1317389
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*07/30/2019 20:36*	WG1319848
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/25/2019 16:03*	WG1317389
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*07/30/2019 20:36*	WG1319848

JC 8/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/27/2019 11:30	WG1318530
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/27/2019 11:30*	WG1318530

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.73	J	1.05	25.0	1	07/25/2019 00:27	WG1317007
Acrylonitrile	U		0.873	5.00	1	07/25/2019 00:27	WG1317007
Benzene	U		0.0896	0.500	1	07/25/2019 00:27	WG1317007
Bromobenzene	U		0.133	0.500	1	07/25/2019 00:27	WG1317007
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 00:27	WG1317007
Bromochloromethane	U		0.145	0.500	1	07/25/2019 00:27	WG1317007
Bromoform	U		0.186	0.500	1	07/25/2019 00:27	WG1317007
Bromomethane	U		0.157	2.50	1	07/25/2019 00:27	WG1317007
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 00:27	WG1317007
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 00:27	WG1317007
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 00:27	WG1317007
Carbon disulfide	U		0.101	0.500	1	07/25/2019 00:27	WG1317007
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 00:27	WG1317007
Chlorobenzene	U		0.140	0.500	1	07/25/2019 00:27	WG1317007
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 00:27	WG1317007
Chloroethane	U		0.141	2.50	1	07/25/2019 00:27	WG1317007
Chloroform	U		0.0860	0.500	1	07/25/2019 00:27	WG1317007
Chloromethane	U		0.153	1.25	1	07/25/2019 00:27	WG1317007
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 00:27	WG1317007
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 00:27	WG1317007
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 00:27	WG1317007
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 00:27	WG1317007
Dibromomethane	U		0.117	0.500	1	07/25/2019 00:27	WG1317007
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 00:27	WG1317007
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 00:27	WG1317007
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 00:27	WG1317007
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 00:27	WG1317007
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 00:27	WG1317007
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 00:27	WG1317007
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 00:27	WG1317007
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/25/2019 00:27	WG1317007
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 00:27	WG1317007
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 00:27	WG1317007
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 00:27	WG1317007
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 00:27	WG1317007
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 00:27	WG1317007
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 00:27	WG1317007
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 00:27	WG1317007
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 00:27	WG1317007
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 00:27	WG1317007
Ethylbenzene	U		0.158	0.500	1	07/25/2019 00:27	WG1317007
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 00:27	WG1317007
2-Hexanone	U		0.757	5.00	1	07/25/2019 00:27	WG1317007
n-Hexane	U		0.305	5.00	1	07/25/2019 00:27	WG1317007
Iodomethane	U		0.377	10.0	1	07/25/2019 00:27	WG1317007
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 00:27	WG1317007
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 00:27	WG1317007
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 00:27	WG1317007

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/25/2019 00:27	WG1317007
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 00:27	WG1317007
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 00:27	WG1317007
Naphthalene	U		0.174	2.50	1	07/25/2019 00:27	WG1317007
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 00:27	WG1317007
Styrene	U		0.117	0.500	1	07/25/2019 00:27	WG1317007
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 00:27	WG1317007
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 00:27	WG1317007
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 00:27	WG1317007
Tetrachloroethene	1.03	B	0.199	0.500	1	07/25/2019 00:27	WG1317007
Toluene	U		0.412	0.500	1	07/25/2019 00:27	WG1317007
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 00:27	WG1317007
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 00:27	WG1317007
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 00:27	WG1317007
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 00:27	WG1317007
Trichloroethene	U		0.153	0.500	1	07/25/2019 00:27	WG1317007
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 00:27	WG1317007
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 00:27	WG1317007
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 00:27	WG1317007
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 00:27	WG1317007
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 00:27	WG1317007
Vinyl acetate	U		0.645	5.00	1	07/25/2019 00:27	WG1317007
Vinyl chloride	U		0.118	0.500	1	07/25/2019 00:27	WG1317007
Xylenes, Total	U		0.316	1.50	1	07/25/2019 00:27	WG1317007
(S) Toluene-d8	*107*			*80.0-120*		*07/25/2019 00:27*	WG1317007
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/25/2019 00:27*	WG1317007
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*07/25/2019 00:27*	WG1317007

Sample Narrative:

L1121576-05 WG1317007: PCE detection is likely from instrument contamination/carryover, no sample remaining for re-analysis

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	47.8	114		2	WG1317302
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1317302
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1317302
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1317302
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1317302
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1317302
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1317302
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1317302
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1317302
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1317302
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1317302
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1317302
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1317302
Chloromethane	74-87-3	50.50	0.400	0.826	0.913	1.89		2	WG1317302
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1317302
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1317302
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1317302
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1317302
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1317302
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1317302
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1317302
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1317302
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1317302
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1317302
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1317302
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1317302
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1317302
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1317302
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1317302
1,4-Dioxane	123-91-1	88.10	0.400	1.44	1.81	6.52		2	WG1317302
Ethanol	64-17-5	46.10	1.26	2.38	5.87	11.1		2	WG1317302
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1317302
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1317302
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	0.557	3.13		2	WG1317302
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.576	2.85		2	WG1317302
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1317302
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1317302
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1317302
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1317302
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1317302
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1317302
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1317302
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1317302
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	4.14	12.2		2	WG1317302
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1317302
Methyl methacrylate	80-62-6	100.12	0.400	1.64	0.636	2.60		2	WG1317302
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1317302
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1317302
2-Propanol	67-63-0	60.10	2.50	6.15	20.7	50.8		2	WG1317302
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1317302
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1317302
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1317302
Tetrachloroethylene	127-18-4	166	0.400	2.72	4.62	31.3		2	WG1317302
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	1.72	5.06		2	WG1317302
Toluene	108-88-3	92.10	0.400	1.51	0.776	2.92	B	2	WG1317302
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1317302

JC 8/7/19

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	0.489	2.66		2	WG1317302
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1317302
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG1317302
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	WG1317302
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1317302
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1317302
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1317302
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1317302
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1317302
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	WG1317302
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	WG1317302
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*96.5*				WG1317302

JC 8/7/19

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	7.49 J	17.8 J		2	WG1317302
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1317302
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1317302
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1317302
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1317302
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1317302
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1317302
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1317302
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1317302
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1317302
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1317302
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1317302
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1317302
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1317302
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1317302
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1317302
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1317302
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1317302
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1317302
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1317302
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1317302
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1317302
1,1-Dichloroethane	75-34-3	98	0.400	1.60	0.755	3.03		2	WG1317302
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1317302
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1317302
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1317302
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1317302
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1317302
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1317302
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1317302
Ethanol	64-17-5	46.10	1.26	2.38	5.29	9.97		2	WG1317302
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1317302
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1317302
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1317302
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.441	2.18		2	WG1317302
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1317302
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1317302
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1317302
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1317302
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1317302
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1317302
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.548 J +	1.90 J +	B	2	WG1317302
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1317302
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1317302
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1317302
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1317302
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1317302
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1317302
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1317302
Propene	115-07-1	42.10	0.800	1.38	0.800 J +	1.38 J +	B	2	WG1317302
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1317302
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1317302
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1317302
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1317302
Toluene	108-88-3	92.10	0.400	1.51	0.547 J +	2.06 J +	B	2	WG1317302
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1317302

JC 8/7/19

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	9.17	49.9		2	WG1317302
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1317302
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG1317302
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	WG1317302
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1317302
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1317302
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1317302
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1317302
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1317302
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	WG1317302
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	WG1317302
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*94.2*				WG1317302

JC 8/7/19

SV-01-071919-D
Collected date/time: 07/19/19 10:42

SAMPLE RESULTS - 03

L1121848

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	3.39 J	8.07 J		2	WG1317302
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1317302
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1317302
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1317302
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1317302
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1317302
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1317302
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1317302
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1317302
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1317302
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1317302
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1317302
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1317302
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1317302
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1317302
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1317302
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1317302
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1317302
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1317302
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1317302
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1317302
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1317302
1,1-Dichloroethane	75-34-3	98	0.400	1.60	0.891	3.57		2	WG1317302
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1317302
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1317302
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1317302
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1317302
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1317302
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1317302
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1317302
Ethanol	64-17-5	46.10	1.26	2.38	3.61	6.80		2	WG1317302
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1317302
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1317302
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1317302
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.410	2.03		2	WG1317302
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1317302
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1317302
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1317302
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1317302
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1317302
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1317302
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1317302
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1317302
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1317302
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1317302
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1317302
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1317302
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1317302
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1317302
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1317302
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1317302
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1317302
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1317302
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1317302
Toluene	108-88-3	92.10	0.400	1.51	ND	ND		2	WG1317302
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1317302

JC 8/7/19

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	10.7	58.3		2	WG1317302
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1317302
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG1317302
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	WG1317302
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1317302
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1317302
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1317302
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1317302
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1317302
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	WG1317302
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	WG1317302
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.0*				WG1317302

JC 8/7/19

MW-142-072519

Collected date/time: 07/25/19 12:35

SAMPLE RESULTS - 01

L1122507

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	792000		2710	20000	1	07/30/2019 16:40	WG1319145

Sample Narrative:

L1122507-01 WG1319145: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	10600		51.9	1000	1	07/26/2019 14:38	WG1317914
Nitrate	U		22.7	100	1	07/26/2019 14:38	WG1317914
Sulfate	48800		77.4	5000	1	07/26/2019 14:38	WG1317914

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	27900		102	1000	1	07/27/2019 12:41	WG1318499

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5890		300	2000	20	07/29/2019 16:37	WG1318607
Manganese	3630		5.00	100	20	07/29/2019 16:37	WG1318607

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/27/2019 12:42	WG1318530
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/27/2019 12:42*	WG1318530

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3070		0.287	0.678	1	07/29/2019 10:46	WG1319045
Ethane	27.8		0.296	1.29	1	07/29/2019 10:46	WG1319045
Ethene	U		0.422	1.27	1	07/29/2019 10:46	WG1319045

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.50 U	J	1.05	25.0	1	07/27/2019 23:36	WG1318725
Acrylonitrile	U		0.873	5.00	1	07/27/2019 23:36	WG1318725
Benzene	0.413 J	J	0.0896	0.500	1	07/27/2019 23:36	WG1318725
Bromobenzene	U		0.133	0.500	1	07/27/2019 23:36	WG1318725
Bromodichloromethane	U		0.0800	0.500	1	07/27/2019 23:36	WG1318725
Bromochloromethane	U		0.145	0.500	1	07/27/2019 23:36	WG1318725
Bromoform	U		0.186	0.500	1	07/27/2019 23:36	WG1318725
Bromomethane	U		0.157	2.50	1	07/27/2019 23:36	WG1318725
n-Butylbenzene	U		0.143	0.500	1	07/27/2019 23:36	WG1318725
sec-Butylbenzene	U		0.134	0.500	1	07/27/2019 23:36	WG1318725
tert-Butylbenzene	U		0.183	0.500	1	07/27/2019 23:36	WG1318725
Carbon disulfide	U		0.101	0.500	1	07/27/2019 23:36	WG1318725
Carbon tetrachloride	U		0.159	0.500	1	07/27/2019 23:36	WG1318725

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L1122507

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	0.465 U	J	0.140	0.500	1	07/27/2019 23:36	WG1318725
Chlorodibromomethane	U		0.128	0.500	1	07/27/2019 23:36	WG1318725
Chloroethane	U		0.141	2.50	1	07/27/2019 23:36	WG1318725
Chloroform	0.300 U	J	0.0860	0.500	1	07/27/2019 23:36	WG1318725
Chloromethane	U		0.153	1.25	1	07/27/2019 23:36	WG1318725
2-Chlorotoluene	U		0.111	0.500	1	07/27/2019 23:36	WG1318725
4-Chlorotoluene	U		0.0972	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/27/2019 23:36	WG1318725
1,2-Dibromoethane	U		0.193	0.500	1	07/27/2019 23:36	WG1318725
Dibromomethane	U		0.117	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dichlorobenzene	U		0.101	0.500	1	07/27/2019 23:36	WG1318725
1,3-Dichlorobenzene	U		0.130	0.500	1	07/27/2019 23:36	WG1318725
1,4-Dichlorobenzene	U		0.121	0.500	1	07/27/2019 23:36	WG1318725
Dichlorodifluoromethane	U		0.127	2.50	1	07/27/2019 23:36	WG1318725
1,1-Dichloroethane	U		0.114	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dichloroethane	U		0.108	0.500	1	07/27/2019 23:36	WG1318725
1,1-Dichloroethene	U		0.188	0.500	1	07/27/2019 23:36	WG1318725
cis-1,2-Dichloroethene	7.70		0.0933	0.500	1	07/27/2019 23:36	WG1318725
trans-1,2-Dichloroethene	0.169 J	J	0.152	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dichloropropane	U		0.190	0.500	1	07/27/2019 23:36	WG1318725
1,1-Dichloropropene	U		0.128	0.500	1	07/27/2019 23:36	WG1318725
1,3-Dichloropropane	U		0.147	1.00	1	07/27/2019 23:36	WG1318725
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/27/2019 23:36	WG1318725
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/27/2019 23:36	WG1318725
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/27/2019 23:36	WG1318725
2,2-Dichloropropane	U		0.0929	0.500	1	07/27/2019 23:36	WG1318725
Di-isopropyl ether	U		0.0924	0.500	1	07/27/2019 23:36	WG1318725
Ethylbenzene	U		0.158	0.500	1	07/27/2019 23:36	WG1318725
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/27/2019 23:36	WG1318725
2-Hexanone	U		0.757	5.00	1	07/27/2019 23:36	WG1318725
n-Hexane	U		0.305	5.00	1	07/27/2019 23:36	WG1318725
Iodomethane	U		0.377	10.0	1	07/27/2019 23:36	WG1318725
Isopropylbenzene	U		0.126	0.500	1	07/27/2019 23:36	WG1318725
p-Isopropyltoluene	U		0.138	0.500	1	07/27/2019 23:36	WG1318725
2-Butanone (MEK)	U		1.28	5.00	1	07/27/2019 23:36	WG1318725
Methylene Chloride	U		1.07	2.50	1	07/27/2019 23:36	WG1318725
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/27/2019 23:36	WG1318725
Methyl tert-butyl ether	U		0.102	0.500	1	07/27/2019 23:36	WG1318725
Naphthalene	U		0.174	2.50	1	07/27/2019 23:36	WG1318725
n-Propylbenzene	U		0.162	0.500	1	07/27/2019 23:36	WG1318725
Styrene	U		0.117	0.500	1	07/27/2019 23:36	WG1318725
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/27/2019 23:36	WG1318725
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/27/2019 23:36	WG1318725
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/30/2019 18:36	WG1319563
Tetrachloroethene	U		0.199	0.500	1	07/27/2019 23:36	WG1318725
Toluene	U		0.412	0.500	1	07/27/2019 23:36	WG1318725
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/27/2019 23:36	WG1318725
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/27/2019 23:36	WG1318725
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/27/2019 23:36	WG1318725
1,1,2-Trichloroethane	U		0.186	0.500	1	07/27/2019 23:36	WG1318725
Trichloroethene	0.218 J	J	0.153	0.500	1	07/27/2019 23:36	WG1318725
Trichlorofluoromethane	U		0.130	2.50	1	07/27/2019 23:36	WG1318725
1,2,3-Trichloropropane	U		0.247	2.50	1	07/27/2019 23:36	WG1318725
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/27/2019 23:36	WG1318725
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/27/2019 23:36	WG1318725
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/27/2019 23:36	WG1318725

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/27/2019 23:36	WG1318725
Vinyl chloride	6.57		0.118	0.500	1	07/27/2019 23:36	WG1318725
Xylenes, Total	U		0.316	1.50	1	07/27/2019 23:36	WG1318725
(S) Toluene-d8	*107*			*80.0-120*		*07/27/2019 23:36*	WG1318725
(S) Toluene-d8	*107*			*80.0-120*		*07/30/2019 18:36*	WG1319563
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*07/27/2019 23:36*	WG1318725
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*07/30/2019 18:36*	WG1319563
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*07/27/2019 23:36*	WG1318725
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/30/2019 18:36*	WG1319563

JC 8/7/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	4690	B J	2710	20000	1	07/30/2019 14:24	WG1319145

Sample Narrative:

L1122507-02 WG1319145: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	404	J	51.9	1000	1	07/26/2019 14:54	WG1317914
Nitrate	53.9	J	22.7	100	1	07/26/2019 22:17	WG1317914
Sulfate	236	J	77.4	5000	1	07/26/2019 22:17	WG1317914

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	381	B J	102	1000	1	07/27/2019 13:15	WG1318499

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	36.1	J	15.0	100	1	07/29/2019 14:24	WG1318607
Manganese	6.84		0.250	5.00	1	07/29/2019 14:24	WG1318607

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/27/2019 13:06	WG1318530
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*07/27/2019 13:06*	WG1318530

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	U		0.287	0.678	1	07/29/2019 12:02	WG1319045
Ethane	U		0.296	1.29	1	07/29/2019 12:02	WG1319045
Ethene	U		0.422	1.27	1	07/29/2019 12:02	WG1319045

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.75	J	1.05	25.0	1	07/27/2019 23:55	WG1318725
Acrylonitrile	U		0.873	5.00	1	07/27/2019 23:55	WG1318725
Benzene	U		0.0896	0.500	1	07/27/2019 23:55	WG1318725
Bromobenzene	U		0.133	0.500	1	07/27/2019 23:55	WG1318725
Bromodichloromethane	U		0.0800	0.500	1	07/27/2019 23:55	WG1318725
Bromochloromethane	U		0.145	0.500	1	07/27/2019 23:55	WG1318725
Bromoform	U		0.186	0.500	1	07/27/2019 23:55	WG1318725
Bromomethane	U		0.157	2.50	1	07/27/2019 23:55	WG1318725
n-Butylbenzene	U		0.143	0.500	1	07/27/2019 23:55	WG1318725
sec-Butylbenzene	U		0.134	0.500	1	07/27/2019 23:55	WG1318725
tert-Butylbenzene	U		0.183	0.500	1	07/27/2019 23:55	WG1318725
Carbon disulfide	U		0.101	0.500	1	07/27/2019 23:55	WG1318725
Carbon tetrachloride	U		0.159	0.500	1	07/27/2019 23:55	WG1318725

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	0.413	J	0.140	0.500	1	07/27/2019 23:55	WG1318725
Chlorodibromomethane	U		0.128	0.500	1	07/27/2019 23:55	WG1318725
Chloroethane	U		0.141	2.50	1	07/27/2019 23:55	WG1318725
Chloroform	0.547		0.0860	0.500	1	07/27/2019 23:55	WG1318725
Chloromethane	U		0.153	1.25	1	07/27/2019 23:55	WG1318725
2-Chlorotoluene	U		0.111	0.500	1	07/27/2019 23:55	WG1318725
4-Chlorotoluene	U		0.0972	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/27/2019 23:55	WG1318725
1,2-Dibromoethane	U		0.193	0.500	1	07/27/2019 23:55	WG1318725
Dibromomethane	U		0.117	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dichlorobenzene	U		0.101	0.500	1	07/27/2019 23:55	WG1318725
1,3-Dichlorobenzene	U		0.130	0.500	1	07/27/2019 23:55	WG1318725
1,4-Dichlorobenzene	U		0.121	0.500	1	07/27/2019 23:55	WG1318725
Dichlorodifluoromethane	U		0.127	2.50	1	07/27/2019 23:55	WG1318725
1,1-Dichloroethane	U		0.114	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dichloroethane	U		0.108	0.500	1	07/27/2019 23:55	WG1318725
1,1-Dichloroethene	U		0.188	0.500	1	07/27/2019 23:55	WG1318725
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/27/2019 23:55	WG1318725
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dichloropropane	U		0.190	0.500	1	07/27/2019 23:55	WG1318725
1,1-Dichloropropene	U		0.128	0.500	1	07/27/2019 23:55	WG1318725
1,3-Dichloropropane	U		0.147	1.00	1	07/27/2019 23:55	WG1318725
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/27/2019 23:55	WG1318725
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/27/2019 23:55	WG1318725
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/27/2019 23:55	WG1318725
2,2-Dichloropropane	U		0.0929	0.500	1	07/27/2019 23:55	WG1318725
Di-isopropyl ether	U		0.0924	0.500	1	07/27/2019 23:55	WG1318725
Ethylbenzene	U		0.158	0.500	1	07/27/2019 23:55	WG1318725
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/27/2019 23:55	WG1318725
2-Hexanone	U		0.757	5.00	1	07/27/2019 23:55	WG1318725
n-Hexane	U		0.305	5.00	1	07/27/2019 23:55	WG1318725
Iodomethane	U		0.377	10.0	1	07/27/2019 23:55	WG1318725
Isopropylbenzene	U		0.126	0.500	1	07/27/2019 23:55	WG1318725
p-Isopropyltoluene	U		0.138	0.500	1	07/27/2019 23:55	WG1318725
2-Butanone (MEK)	U		1.28	5.00	1	07/27/2019 23:55	WG1318725
Methylene Chloride	U		1.07	2.50	1	07/27/2019 23:55	WG1318725
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/27/2019 23:55	WG1318725
Methyl tert-butyl ether	U		0.102	0.500	1	07/27/2019 23:55	WG1318725
Naphthalene	U		0.174	2.50	1	07/27/2019 23:55	WG1318725
n-Propylbenzene	U		0.162	0.500	1	07/27/2019 23:55	WG1318725
Styrene	U		0.117	0.500	1	07/27/2019 23:55	WG1318725
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/27/2019 23:55	WG1318725
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/27/2019 23:55	WG1318725
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/30/2019 19:30	WG1319563
Tetrachloroethene	U		0.199	0.500	1	07/27/2019 23:55	WG1318725
Toluene	U		0.412	0.500	1	07/27/2019 23:55	WG1318725
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/27/2019 23:55	WG1318725
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/27/2019 23:55	WG1318725
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/27/2019 23:55	WG1318725
1,1,2-Trichloroethane	U		0.186	0.500	1	07/27/2019 23:55	WG1318725
Trichloroethene	U		0.153	0.500	1	07/27/2019 23:55	WG1318725
Trichlorofluoromethane	U		0.130	2.50	1	07/27/2019 23:55	WG1318725
1,2,3-Trichloropropane	U		0.247	2.50	1	07/27/2019 23:55	WG1318725
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/27/2019 23:55	WG1318725
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/27/2019 23:55	WG1318725
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/27/2019 23:55	WG1318725

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/27/2019 23:55	WG1318725
Vinyl chloride	U		0.118	0.500	1	07/27/2019 23:55	WG1318725
Xylenes, Total	U		0.316	1.50	1	07/27/2019 23:55	WG1318725
(S) Toluene-d8	*106*			*80.0-120*		*07/27/2019 23:55*	WG1318725
(S) Toluene-d8	*106*			*80.0-120*		*07/30/2019 19:30*	WG1319563
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*07/27/2019 23:55*	WG1318725
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/30/2019 19:30*	WG1319563
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*07/27/2019 23:55*	WG1318725
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/30/2019 19:30*	WG1319563

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/28/2019 13:41	WG1318914
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*78.0-120*		*07/28/2019 13:41*	WG1318914

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/27/2019 20:01	WG1318725
Acrylonitrile	U		0.873	5.00	1	07/27/2019 20:01	WG1318725
Benzene	U		0.0896	0.500	1	07/27/2019 20:01	WG1318725
Bromobenzene	U		0.133	0.500	1	07/27/2019 20:01	WG1318725
Bromodichloromethane	U		0.0800	0.500	1	07/27/2019 20:01	WG1318725
Bromochloromethane	U		0.145	0.500	1	07/27/2019 20:01	WG1318725
Bromoform	U		0.186	0.500	1	07/27/2019 20:01	WG1318725
Bromomethane	U		0.157	2.50	1	07/27/2019 20:01	WG1318725
n-Butylbenzene	U		0.143	0.500	1	07/27/2019 20:01	WG1318725
sec-Butylbenzene	U		0.134	0.500	1	07/27/2019 20:01	WG1318725
tert-Butylbenzene	U		0.183	0.500	1	07/27/2019 20:01	WG1318725
Carbon disulfide	U		0.101	0.500	1	07/27/2019 20:01	WG1318725
Carbon tetrachloride	U		0.159	0.500	1	07/27/2019 20:01	WG1318725
Chlorobenzene	U		0.140	0.500	1	07/27/2019 20:01	WG1318725
Chlorodibromomethane	U		0.128	0.500	1	07/27/2019 20:01	WG1318725
Chloroethane	U		0.141	2.50	1	07/27/2019 20:01	WG1318725
Chloroform	U		0.0860	0.500	1	07/27/2019 20:01	WG1318725
Chloromethane	U		0.153	1.25	1	07/27/2019 20:01	WG1318725
2-Chlorotoluene	U		0.111	0.500	1	07/27/2019 20:01	WG1318725
4-Chlorotoluene	U		0.0972	0.500	1	07/27/2019 20:01	WG1318725
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/27/2019 20:01	WG1318725
1,2-Dibromoethane	U		0.193	0.500	1	07/27/2019 20:01	WG1318725
Dibromomethane	U		0.117	0.500	1	07/27/2019 20:01	WG1318725
1,2-Dichlorobenzene	U		0.101	0.500	1	07/27/2019 20:01	WG1318725
1,3-Dichlorobenzene	U		0.130	0.500	1	07/27/2019 20:01	WG1318725
1,4-Dichlorobenzene	U		0.121	0.500	1	07/27/2019 20:01	WG1318725
Dichlorodifluoromethane	U		0.127	2.50	1	07/27/2019 20:01	WG1318725
1,1-Dichloroethane	U		0.114	0.500	1	07/27/2019 20:01	WG1318725
1,2-Dichloroethane	U		0.108	0.500	1	07/27/2019 20:01	WG1318725
1,1-Dichloroethene	U		0.188	0.500	1	07/27/2019 20:01	WG1318725
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/27/2019 20:01	WG1318725
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/27/2019 20:01	WG1318725
1,2-Dichloropropane	U		0.190	0.500	1	07/27/2019 20:01	WG1318725
1,1-Dichloropropene	U		0.128	0.500	1	07/27/2019 20:01	WG1318725
1,3-Dichloropropane	U		0.147	1.00	1	07/27/2019 20:01	WG1318725
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/27/2019 20:01	WG1318725
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/27/2019 20:01	WG1318725
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/27/2019 20:01	WG1318725
2,2-Dichloropropane	U		0.0929	0.500	1	07/27/2019 20:01	WG1318725
Di-isopropyl ether	U		0.0924	0.500	1	07/27/2019 20:01	WG1318725
Ethylbenzene	U		0.158	0.500	1	07/27/2019 20:01	WG1318725
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/27/2019 20:01	WG1318725
2-Hexanone	U		0.757	5.00	1	07/27/2019 20:01	WG1318725
n-Hexane	U		0.305	5.00	1	07/27/2019 20:01	WG1318725
Iodomethane	U		0.377	10.0	1	07/27/2019 20:01	WG1318725
Isopropylbenzene	U		0.126	0.500	1	07/27/2019 20:01	WG1318725
p-Isopropyltoluene	U		0.138	0.500	1	07/27/2019 20:01	WG1318725
2-Butanone (MEK)	U		1.28	5.00	1	07/27/2019 20:01	WG1318725

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	07/27/2019 20:01	WG1318725
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/27/2019 20:01	WG1318725
Methyl tert-butyl ether	U		0.102	0.500	1	07/27/2019 20:01	WG1318725
Naphthalene	U		0.174	2.50	1	07/27/2019 20:01	WG1318725
n-Propylbenzene	U		0.162	0.500	1	07/27/2019 20:01	WG1318725
Styrene	U		0.117	0.500	1	07/27/2019 20:01	WG1318725
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/27/2019 20:01	WG1318725
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/27/2019 20:01	WG1318725
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/30/2019 17:31	WG1319563
Tetrachloroethene	U		0.199	0.500	1	07/27/2019 20:01	WG1318725
Toluene	U		0.412	0.500	1	07/27/2019 20:01	WG1318725
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/27/2019 20:01	WG1318725
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/27/2019 20:01	WG1318725
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/27/2019 20:01	WG1318725
1,1,2-Trichloroethane	U		0.186	0.500	1	07/27/2019 20:01	WG1318725
Trichloroethene	U		0.153	0.500	1	07/27/2019 20:01	WG1318725
Trichlorofluoromethane	U		0.130	2.50	1	07/27/2019 20:01	WG1318725
1,2,3-Trichloropropane	U		0.247	2.50	1	07/27/2019 20:01	WG1318725
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/27/2019 20:01	WG1318725
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/27/2019 20:01	WG1318725
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/27/2019 20:01	WG1318725
Vinyl acetate	U		0.645	5.00	1	07/27/2019 20:01	WG1318725
Vinyl chloride	U		0.118	0.500	1	07/27/2019 20:01	WG1318725
Xylenes, Total	U		0.316	1.50	1	07/27/2019 20:01	WG1318725
(S) Toluene-d8	*108*			*80.0-120*		*07/27/2019 20:01*	WG1318725
(S) Toluene-d8	*107*			*80.0-120*		*07/30/2019 17:31*	WG1319563
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/27/2019 20:01*	WG1318725
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/30/2019 17:31*	WG1319563
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*07/27/2019 20:01*	WG1318725
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/30/2019 17:31*	WG1319563

SAMPLE RESULTS - 01

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/07/2019 13:27	WG1324526
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*08/07/2019 13:27*	WG1324526

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.59	U	J	1.05	25.0	1	08/06/2019 02:51	WG1323449
Acrylonitrile	U			0.873	5.00	1	08/06/2019 02:51	WG1323449
Benzene	U			0.0896	0.500	1	08/06/2019 02:51	WG1323449
Bromobenzene	U			0.133	0.500	1	08/06/2019 02:51	WG1323449
Bromodichloromethane	U			0.0800	0.500	1	08/06/2019 02:51	WG1323449
Bromochloromethane	U			0.145	0.500	1	08/06/2019 02:51	WG1323449
Bromoform	U			0.186	0.500	1	08/06/2019 02:51	WG1323449
Bromomethane	U			0.157	2.50	1	08/06/2019 02:51	WG1323449
n-Butylbenzene	U			0.143	0.500	1	08/06/2019 02:51	WG1323449
sec-Butylbenzene	U			0.134	0.500	1	08/06/2019 02:51	WG1323449
tert-Butylbenzene	U			0.183	0.500	1	08/06/2019 02:51	WG1323449
Carbon disulfide	U			0.101	0.500	1	08/06/2019 02:51	WG1323449
Carbon tetrachloride	U			0.159	0.500	1	08/06/2019 02:51	WG1323449
Chlorobenzene	U			0.140	0.500	1	08/06/2019 02:51	WG1323449
Chlorodibromomethane	U			0.128	0.500	1	08/06/2019 02:51	WG1323449
Chloroethane	U			0.141	2.50	1	08/06/2019 02:51	WG1323449
Chloroform	U			0.0860	0.500	1	08/06/2019 02:51	WG1323449
Chloromethane	U			0.153	1.25	1	08/06/2019 02:51	WG1323449
2-Chlorotoluene	U			0.111	0.500	1	08/06/2019 02:51	WG1323449
4-Chlorotoluene	U			0.0972	0.500	1	08/06/2019 02:51	WG1323449
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	08/06/2019 02:51	WG1323449
1,2-Dibromoethane	U			0.193	0.500	1	08/06/2019 02:51	WG1323449
Dibromomethane	U			0.117	0.500	1	08/06/2019 02:51	WG1323449
1,2-Dichlorobenzene	U			0.101	0.500	1	08/06/2019 02:51	WG1323449
1,3-Dichlorobenzene	U			0.130	0.500	1	08/06/2019 02:51	WG1323449
1,4-Dichlorobenzene	U			0.121	0.500	1	08/06/2019 02:51	WG1323449
Dichlorodifluoromethane	U			0.127	2.50	1	08/06/2019 02:51	WG1323449
1,1-Dichloroethane	0.495	J	J	0.114	0.500	1	08/06/2019 02:51	WG1323449
1,2-Dichloroethane	U			0.108	0.500	1	08/06/2019 02:51	WG1323449
1,1-Dichloroethene	U			0.188	0.500	1	08/06/2019 02:51	WG1323449
cis-1,2-Dichloroethene	0.489	J	J	0.0933	0.500	1	08/06/2019 02:51	WG1323449
trans-1,2-Dichloroethene	U			0.152	0.500	1	08/06/2019 02:51	WG1323449
1,2-Dichloropropane	U			0.190	0.500	1	08/06/2019 02:51	WG1323449
1,1-Dichloropropene	U			0.128	0.500	1	08/06/2019 02:51	WG1323449
1,3-Dichloropropane	U			0.147	1.00	1	08/06/2019 02:51	WG1323449
cis-1,3-Dichloropropene	U			0.0976	0.500	1	08/06/2019 02:51	WG1323449
trans-1,3-Dichloropropene	U			0.222	0.500	1	08/06/2019 02:51	WG1323449
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.257	5.00	1	08/06/2019 02:51	WG1323449
2,2-Dichloropropane	U			0.0929	0.500	1	08/06/2019 02:51	WG1323449
Di-isopropyl ether	U			0.0924	0.500	1	08/06/2019 02:51	WG1323449
Ethylbenzene	U			0.158	0.500	1	08/06/2019 02:51	WG1323449
Hexachloro-1,3-butadiene	U			0.157	1.00	1	08/06/2019 02:51	WG1323449
2-Hexanone	U			0.757	5.00	1	08/06/2019 02:51	WG1323449
n-Hexane	U			0.305	5.00	1	08/06/2019 02:51	WG1323449
Iodomethane	U			0.377	10.0	1	08/06/2019 02:51	WG1323449
Isopropylbenzene	U			0.126	0.500	1	08/06/2019 02:51	WG1323449
p-Isopropyltoluene	U			0.138	0.500	1	08/06/2019 02:51	WG1323449
2-Butanone (MEK)	U			1.28	5.00	1	08/06/2019 02:51	WG1323449

JC 8/12/19

1 Cp
2 Tc
3 Ss
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5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	08/06/2019 02:51	WG1323449
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	08/06/2019 02:51	WG1323449
Methyl tert-butyl ether	U		0.102	0.500	1	08/06/2019 02:51	WG1323449
Naphthalene	U		0.174	2.50	1	08/06/2019 02:51	WG1323449
n-Propylbenzene	U		0.162	0.500	1	08/06/2019 02:51	WG1323449
Styrene	U		0.117	0.500	1	08/06/2019 02:51	WG1323449
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	08/06/2019 02:51	WG1323449
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	08/06/2019 02:51	WG1323449
1,1,2-Trichlorotrifluoroethane	0.542		0.164	0.500	1	08/06/2019 02:51	WG1323449
Tetrachloroethene	U		0.199	0.500	1	08/06/2019 02:51	WG1323449
Toluene	U		0.412	0.500	1	08/06/2019 02:51	WG1323449
1,2,3-Trichlorobenzene	U		0.164	0.500	1	08/06/2019 02:51	WG1323449
1,2,4-Trichlorobenzene	U		0.355	0.500	1	08/06/2019 02:51	WG1323449
1,1,1-Trichloroethane	U		0.0940	0.500	1	08/06/2019 02:51	WG1323449
1,1,2-Trichloroethane	U		0.186	0.500	1	08/06/2019 02:51	WG1323449
Trichloroethene	U		0.153	0.500	1	08/06/2019 02:51	WG1323449
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	08/06/2019 02:51	WG1323449
1,2,3-Trichloropropane	U		0.247	2.50	1	08/06/2019 02:51	WG1323449
1,2,4-Trimethylbenzene	U		0.123	0.500	1	08/06/2019 02:51	WG1323449
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	08/06/2019 02:51	WG1323449
1,3,5-Trimethylbenzene	U		0.124	0.500	1	08/06/2019 02:51	WG1323449
Vinyl acetate	U		0.645	5.00	1	08/06/2019 02:51	WG1323449
Vinyl chloride	U		0.118	0.500	1	08/06/2019 02:51	WG1323449
Xylenes, Total	U		0.316	1.50	1	08/06/2019 02:51	WG1323449
(S) Toluene-d8	*105*			*80.0-120*		*08/06/2019 02:51*	WG1323449
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*08/06/2019 02:51*	WG1323449
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*08/06/2019 02:51*	WG1323449

JC 8/12/19

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Collected date/time: 08/01/19 11:07

SAMPLE RESULTS - 02

L1124853

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/08/2019 19:02	WG1325194
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*78.0-120*		*08/08/2019 19:02*	WG1325194

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	3.24	J	1.05	25.0	1	08/05/2019 22:49	WG1323449	
Acrylonitrile	U		0.873	5.00	1	08/05/2019 22:49	WG1323449	
Benzene	U		0.0896	0.500	1	08/05/2019 22:49	WG1323449	
Bromobenzene	U		0.133	0.500	1	08/05/2019 22:49	WG1323449	
Bromodichloromethane	U		0.0800	0.500	1	08/05/2019 22:49	WG1323449	
Bromochloromethane	U		0.145	0.500	1	08/05/2019 22:49	WG1323449	
Bromoform	U		0.186	0.500	1	08/05/2019 22:49	WG1323449	
Bromomethane	U		0.157	2.50	1	08/05/2019 22:49	WG1323449	
n-Butylbenzene	U		0.143	0.500	1	08/05/2019 22:49	WG1323449	
sec-Butylbenzene	U		0.134	0.500	1	08/05/2019 22:49	WG1323449	
tert-Butylbenzene	U		0.183	0.500	1	08/05/2019 22:49	WG1323449	
Carbon disulfide	U		0.101	0.500	1	08/05/2019 22:49	WG1323449	
Carbon tetrachloride	U		0.159	0.500	1	08/05/2019 22:49	WG1323449	
Chlorobenzene	U		0.140	0.500	1	08/05/2019 22:49	WG1323449	
Chlorodibromomethane	U		0.128	0.500	1	08/05/2019 22:49	WG1323449	
Chloroethane	U		0.141	2.50	1	08/05/2019 22:49	WG1323449	
Chloroform	U		0.0860	0.500	1	08/05/2019 22:49	WG1323449	
Chloromethane	U		0.153	1.25	1	08/05/2019 22:49	WG1323449	
2-Chlorotoluene	U		0.111	0.500	1	08/05/2019 22:49	WG1323449	
4-Chlorotoluene	U		0.0972	0.500	1	08/05/2019 22:49	WG1323449	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	08/05/2019 22:49	WG1323449	
1,2-Dibromoethane	U		0.193	0.500	1	08/05/2019 22:49	WG1323449	
Dibromomethane	U		0.117	0.500	1	08/05/2019 22:49	WG1323449	
1,2-Dichlorobenzene	U		0.101	0.500	1	08/05/2019 22:49	WG1323449	
1,3-Dichlorobenzene	U		0.130	0.500	1	08/05/2019 22:49	WG1323449	
1,4-Dichlorobenzene	U		0.121	0.500	1	08/05/2019 22:49	WG1323449	
Dichlorodifluoromethane	U		0.127	2.50	1	08/05/2019 22:49	WG1323449	
1,1-Dichloroethane	U		0.114	0.500	1	08/05/2019 22:49	WG1323449	
1,2-Dichloroethane	U		0.108	0.500	1	08/05/2019 22:49	WG1323449	
1,1-Dichloroethene	U		0.188	0.500	1	08/05/2019 22:49	WG1323449	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	08/05/2019 22:49	WG1323449	
trans-1,2-Dichloroethene	U		0.152	0.500	1	08/05/2019 22:49	WG1323449	
1,2-Dichloropropane	U		0.190	0.500	1	08/05/2019 22:49	WG1323449	
1,1-Dichloropropene	U		0.128	0.500	1	08/05/2019 22:49	WG1323449	
1,3-Dichloropropane	U		0.147	1.00	1	08/05/2019 22:49	WG1323449	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	08/05/2019 22:49	WG1323449	
trans-1,3-Dichloropropene	U		0.222	0.500	1	08/05/2019 22:49	WG1323449	
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	08/05/2019 22:49	WG1323449	
2,2-Dichloropropane	U		0.0929	0.500	1	08/05/2019 22:49	WG1323449	
Di-isopropyl ether	U		0.0924	0.500	1	08/05/2019 22:49	WG1323449	
Ethylbenzene	U		0.158	0.500	1	08/05/2019 22:49	WG1323449	
Hexachloro-1,3-butadiene	0.164	B J	0.157	1.00	1	08/05/2019 22:49	WG1323449	JC 8/12/19
2-Hexanone	U		0.757	5.00	1	08/05/2019 22:49	WG1323449	
n-Hexane	U		0.305	5.00	1	08/05/2019 22:49	WG1323449	
Iodomethane	U		0.377	10.0	1	08/05/2019 22:49	WG1323449	
Isopropylbenzene	U		0.126	0.500	1	08/05/2019 22:49	WG1323449	
p-Isopropyltoluene	U		0.138	0.500	1	08/05/2019 22:49	WG1323449	
2-Butanone (MEK)	U		1.28	5.00	1	08/05/2019 22:49	WG1323449	

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Collected date/time: 08/01/19 11:07

SAMPLE RESULTS - 02

L1124853

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	08/05/2019 22:49	WG1323449
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	08/05/2019 22:49	WG1323449
Methyl tert-butyl ether	U		0.102	0.500	1	08/05/2019 22:49	WG1323449
Naphthalene	U		0.174	2.50	1	08/05/2019 22:49	WG1323449
n-Propylbenzene	U		0.162	0.500	1	08/05/2019 22:49	WG1323449
Styrene	U		0.117	0.500	1	08/05/2019 22:49	WG1323449
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	08/05/2019 22:49	WG1323449
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	08/05/2019 22:49	WG1323449
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	08/05/2019 22:49	WG1323449
Tetrachloroethene	U		0.199	0.500	1	08/05/2019 22:49	WG1323449
Toluene	U		0.412	0.500	1	08/05/2019 22:49	WG1323449
1,2,3-Trichlorobenzene	U		0.164	0.500	1	08/05/2019 22:49	WG1323449
1,2,4-Trichlorobenzene	U		0.355	0.500	1	08/05/2019 22:49	WG1323449
1,1,1-Trichloroethane	U		0.0940	0.500	1	08/05/2019 22:49	WG1323449
1,1,2-Trichloroethane	U		0.186	0.500	1	08/05/2019 22:49	WG1323449
Trichloroethene	U		0.153	0.500	1	08/05/2019 22:49	WG1323449
Trichlorofluoromethane	U UJ	J0	0.130	2.50	1	08/05/2019 22:49	WG1323449
1,2,3-Trichloropropane	U		0.247	2.50	1	08/05/2019 22:49	WG1323449
1,2,4-Trimethylbenzene	U		0.123	0.500	1	08/05/2019 22:49	WG1323449
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	08/05/2019 22:49	WG1323449
1,3,5-Trimethylbenzene	U		0.124	0.500	1	08/05/2019 22:49	WG1323449
Vinyl acetate	U		0.645	5.00	1	08/05/2019 22:49	WG1323449
Vinyl chloride	U		0.118	0.500	1	08/05/2019 22:49	WG1323449
Xylenes, Total	U		0.316	1.50	1	08/05/2019 22:49	WG1323449
(S) Toluene-d8	*106*			*80.0-120*		*08/05/2019 22:49*	WG1323449
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*08/05/2019 22:49*	WG1323449
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*08/05/2019 22:49*	WG1323449

JC 8/12/19

MEMORANDUM

TO: Project File **DATE:** October 3, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.310

TASK: EIM Data Validation Level EPA2A for Interim Cleanup Action Well Drilling and Installation. August-September 2019 Soil Samples

LAB: Group 1: Fremont Analytical Service Request Nos. 1908386, 1908418, 1909013, 1909028, 1909030, 1909052, 1909075, 1909162, 1909229, 1909255, 1909313, 1909338, and 1909347.

Twenty-eight (28) soil samples were collected part of the interim cleanup action effort at the Former American Linen Supply Site, in Seattle, Washington, between August 27 and September 23, 2019. The samples were delivered to Fremont Analytical (Fremont) of Seattle, Washington for laboratory analysis. Selected samples were analyzed for the following parameters:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D; and
- Total Solids by USEPA Method 8000D.

The Interim Action CA Well Drilling and Installation sampling event is ongoing, and results are reported in multiple Work Orders. Fremont Work Orders are reviewed in groups of approximately ten per each data validation report. Group 1 analytical results are reported in Fremont Work Orders 1908386, 1908418, 1909013, 1909028, 1909030, 1909052, 1909075, 1909162, 1909229, 1909255, 1909313, 1909338, and 1909347. The quality assurance review of the laboratory data associated with Group 1 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Sample Receipt, Preservation and Handling

The samples were delivered to the project laboratory in coolers under standard chain-of-custody protocols. Review of Fremont's Sample Log-In Check List Form indicates that all samples were received in good condition either below or above the recommended preservation temperature 6.0°C. No action is taken for samples received above the recommended temperature. The samples were collected and delivered to the laboratory on the same day. The sample receipt log indicates that the samples in the coolers were received properly stored in a cooler and in good condition at the time of laboratory receipt. Coolers without ice were delivered quickly to the laboratory for quick turn analyses. No data qualifications were assigned due to sample receipt or temperature preservation issues. Following changes were made to the chain of custody (COCs) forms:

- Work Order 1908386: Sample CAA-C1-43 time of collection (listed as "14") on the COC does not match the work order sample summary (listed as 2:55 pm).

- Work Order 1909013: Sample CA-C7-35 was corrected to read CA-C8-35 on September 6, 2019 by Fremont per PES's request

Holding Times

USEPA Method 8260D:
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

Total Solids by USEPA Method 8000D:
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met.

Initial and Continuing Calibration

USEPA Method 8260D (VOCs):
Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. These data were not provided nor requested for this project. Case narrative notes and qualifiers do not issue any issues with calibration data.

Method Blank Results

USEPA Method 8260D:
Laboratory method blanks are included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the method reporting limits (RLs) with the following exception:

- Work Order 1909313: PCE was detected at a low level above the RL. No action is taken because associated detections are significantly greater than the blank contamination. Additionally, the method blank was reanalyzed within the same analytical batch and PCE is not detected. No qualifications of the data were made due to the results of the method blank analyses.

Trip Blank Results

USEPA Method 8260D:
No trip blanks were collected.

Field, Rinsate, or Equipment Blank Results

Field, rinsate or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate pairs were not collected. For precision information refer to laboratory quality control data.

Laboratory Duplicate Analyses

USEPA Method 8260D:
Laboratory duplicate samples were performed on client and non-client samples associated with the analytical batches. The RPDs for VOCs are within the laboratory control limit of 30% RPD (or ± <2X RL) with the following discussions:

- Work Order 1909075: Laboratory duplicate analyses was performed on client sample CA-C10-17. Fremont qualified (E) sample to indicate the result exceeded the linear range of the instrument. No action was taken in this case since the parent sample was diluted and within the linear working range of the instrument.

Moisture by Method 8000D:
Laboratory duplicate samples were performed on client and non-client samples associated with the analytical batches. The RPDs for percent moisture are within the laboratory control limit of 20% RPD with one exception:

- Work Order 1909162: Percent moisture duplicate analyses was performed on a non-client sample and RPD exceeds 20%. Recommended guidance is not provided in Functional Guidelines. No action is taken other than to note this.

Surrogate Recoveries

USEPA Method 8260D:
The surrogate recovery results for the samples, laboratory duplicates, laboratory control samples, matrix spike samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Matrix Spike/ Matrix Spike Duplicates

USEPA Method 8260D:

Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on client and non-client samples within the analytical batch. In cases where MS/MSDs were not performed refer to laboratory control samples, laboratory, and field duplicate data for accuracy and precision data. The MS/MSD %R's and RPDs for the target compounds are within the laboratory control criteria for soil with the following discussion:

- Work Orders 1909229 and 1909255: Matrix spike analyses was performed on client sample CA-D2-31 (Work Order 1909229). Tetrachloroethene (PCE) MS/MSD results are laboratory qualified (E) sample to indicate the results exceeded the linear range of the instrument. No action was taken in this case since the parent sample was diluted and within the linear working range of the instrument.

Laboratory Control Samples

USEPA Method 8260D:
Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed by USEPA Method 8260D. In some cases, only an LCS was analyzed. For precision data refer to laboratory duplicate or field duplicate results. The LCS or LCS/LCSD %R's and RPDs for the target compounds are within the laboratory control criteria for soils with the following discussion:

- Work Order 1909313: PCE was detected at a low level above the RL and the associated PCE result in the LCS is laboratory qualified (B) to indicate possible carryover contamination. No action is taken since the MB was reanalyzed and PCE is not detected. MS/MSD results are acceptable and within criteria. No qualifications of the data were made due to the results of the method blank analyses.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory reports with the following discussion:

- Electronic data deliverables (EDDs) for these Work Orders were provided by the laboratory and data validator qualifiers were entered, as appropriate, into the EDDs. Fremont applied estimated (J) and non-detect qualifiers (U) for detects between the MDL and RL (qualified results column read "U, J"). These were modified by the data validator to estimated (J) reflecting associated hard copy results and are consistent with Functional Guidelines definitions for qualifiers.

Quantitation Limits

Results of all analyses were reported based on standard laboratory RLs. The reported RLs are considered appropriate for this project. RLs in nearly all cases are raised (10X) for method-required dilutions.

Completeness

The samples were collected and analyzed as requested. Data completeness is 100%.

Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017)

No data qualifiers are assigned. All data are judged to be acceptable for their intended use.

MEMORANDUM

TO: Project File **DATE:** November 19, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.05.310

TASK: EIM Data Validation Level EPA2A for Interim Cleanup Action Well Drilling and Installation. September-October 2019 Soil Samples

LAB: Group 2: Fremont Analytical Service Request Nos. 1909381, 1909407, 1909439, 1909454, 1909476, 1910022, 1910399, 1910476, and 1910490.

Sixteen (16) soil samples including two (2) field duplicate sample were collected part of the interim cleanup action effort at the Former American Linen Supply Site, in Seattle, Washington, between September 23 and October 26, 2019. The samples were delivered to Fremont Analytical (Fremont) of Seattle, Washington for laboratory analysis. Selected samples were analyzed for the following parameters:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D; and
- Total Solids by USEPA Method 8000D.

The Interim Action CA Well Drilling and Installation sampling event is ongoing, and results are reported in multiple Work Orders. Fremont Work Orders are reviewed in groups of approximately ten per each data validation report. Group 2 analytical results are reported in Fremont Work Orders 1909381, 1909407, 1909439, 1909454, 1909476, 1910022, 1910399, 1910476, and 1910490. The quality assurance review of the laboratory data associated with Group 2 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Sample Receipt, Preservation and Handling

The samples were delivered to the project laboratory in coolers under standard chain-of-custody protocols. Review of Fremont's Sample Log-In Check List Form indicates that all samples were received in good condition either below or above the recommended preservation temperature 6.0°C. No action is taken for samples received above the recommended temperature. The samples were collected and delivered to the laboratory on the same day. The sample receipt log indicates that the samples in the coolers were received properly stored in a cooler and in good condition at the time of laboratory receipt. Coolers without ice were delivered quickly to the laboratory for quick turn analyses. No data qualifications were assigned due to sample receipt or temperature preservation issues with the following discussion:

- Work Order 1910490: A trip blank was collected but not submitted for analyses per PES's October 29, 2019 request.

Holding Times

USEPA Method 8260D:
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

Total Solids by USEPA Method 8000D:
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met.

Initial and Continuing Calibration

USEPA Method 8260D (VOCs):
Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. These data were not provided nor requested for this project. Case narrative notes and qualifiers do not issue any issues with calibration data.

Method Blank Results

USEPA Method 8260D:
Laboratory method blanks are included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the reporting limits (RLs).

Trip Blank Results

USEPA Method 8260D:
No trip blanks were submitted for analysis.

Field, Rinsate, or Equipment Blank Results

Field, rinsate or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate pairs are associated with the following:

- Work Order 1909476: Sample CA-B20-31 and field duplicate sample B-1001-31 were collected and analyzed for VOCs.
- Work Order 1910490: Sample MW-175-12 and field duplicate sample B-1002-12 were collected and analyzed for VOCs.

Field duplicate results are comparable with relative percent differences (RPDs) less than 30% (or ± <2X RL).

Laboratory Duplicate Analyses

USEPA Method 8260D:
Laboratory duplicate samples were performed on client and non-client samples associated with the analytical batches. The RPDs for VOCs are within the laboratory control limit of 30% RPD (or ± <2X RL).

Moisture by Method 8000D:
Laboratory duplicate samples were performed on client and non-client samples associated with the analytical batches. The RPDs for percent moisture are within the laboratory control limit of 20% RPD with one exception:

- Work Order 1909381: Percent moisture duplicate analyses was performed on a non-client sample and RPD exceeds 20%. Recommended guidance is not provided in Functional Guidelines. No action is taken other than to note this.

Surrogate Recoveries

USEPA Method 8260D:
The surrogate recovery results for the samples, laboratory duplicates, laboratory control samples, matrix spike samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Matrix Spike/ Matrix Spike Duplicates

USEPA Method 8260D:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on client and non-client samples within the analytical batch. The MS/MSD %R's and RPDs for the target compounds are within the laboratory control criteria for soil.

Laboratory Control Samples

USEPA Method 8260D:

Laboratory control samples (LCSs) were analyzed by USEPA Method 8260D. For precision data refer to laboratory duplicate or field duplicate results. The LCS %R's for the target compounds are within the laboratory control criteria for soil.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory reports with the following discussion:

- Electronic data deliverables (EDDs) for these Work Orders were provided by the laboratory and data validator qualifiers were entered, as appropriate, into the EDDs. Fremont applied estimated (J) and non-detect qualifiers (U) for detects between the MDL and RL (qualified results column read "U, J"). These were modified by the data validator to estimated (J) reflecting associated hard copy results and are consistent with Functional Guidelines definitions for qualifiers.

Quantitation Limits

Results of all analyses were reported based on standard laboratory RLs. The reported RLs are considered appropriate for this project. RLs in nearly all cases are raised (10X or greater) for method-required dilutions.

Completeness

The samples were collected and analyzed as requested. Data completeness is 100%.

Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017)

No data qualifiers are assigned. All data are judged to be acceptable for their intended use.

MEMORANDUM

TO: Project File **DATE:** November 20, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.02.501B

TASK: EIM Data Validation Level EPA2A for Remedial Investigation (RI) Well Drilling and Installation. September and October 2019 Soil Samples.

LAB: Pace Sample Delivery Groups (SDGs): L1139441, L1141285, L1141323, L1141868, L1141869, L1141887, L1141922, and L1147020

One hundred fifty-two (152) soil samples, including seven (7) field duplicates, and eight (8) trip blanks were collected September 12-20 and October 1-2, 2019 as part of the RI effort at the Former American Linen Supply Site, in Seattle, Washington. The samples were delivered to Pace Analytical (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following parameters:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons (TPH) as gasoline (TPH-Gx) by NWTPH-GX per analytical methods stipulated by Washington State Department of Ecology; and
- Total Solids by Standard Methods (SM) 2540 G-2011.

The RI Well Drilling and Installation sampling results are reported in multiple SDGs from Pace. Pace SDGs are reviewed in small groups per each data validation report. Group 2 analytical results are reported in Pace SDGs L1139441, L1141285, L1141323, L1141868, L1141869, L1141887, L1141922, and L1147020. The quality assurance review of the laboratory data associated with Group 2 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Sample Receipt, Preservation and Handling

The samples were delivered to the project laboratory in coolers under standard chain-of-custody protocols. Review of Pace's chain of custody (COC) notes indicate that all samples were received in good condition either below the recommended preservation temperature 6.0°C. The samples were collected and delivered to the laboratory by courier. No data qualifications were assigned due to sample receipt or temperature preservation issues. The following issues were noted by the laboratory:

- SDG L1139441: Review of Pace's sample receiving notes indicate that sample MW-324-50 was not received in a jar.
- SDG L1141887: Pace sample receiving notes indicate that sample MW-311-74 was not received. Per PES's confirmation Pace proceeded without sample MW-311-74.
- SDGs L1141285 and L1141323: Trip blanks with each SDG were submitted for analysis. Both trip blanks are identified as TB-091619. No action is taken other than to note this.
- SDG L1147020: Review of COC notes indicate that samples MW-304-30 and MW-304-35 were crossed off and sampler notes (by sampler H. Small) to indicate "sample MW-304-30 ok. Run Analysis" and "No Sample MW-304-35". Pace analyzed sample MW-304-30 as requested. No action is taken other than to note this.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and waters (trip blanks) from the date of sample collection. All holding time criteria are met.

NWTPH-Gx Method:
All samples were analyzed for gasoline within the USEPA recommended holding time of fourteen days for preserved soils from the date of sample collection. All holding time criteria were met.

Total Solids by SM 2540 G-2011:
Samples were analyzed within the USEPA recommended holding time of seven days for total solids.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDGs L1139441, L1141285, L1141323, and L1147020 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for several compounds associated with the trip blanks. The compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. No action is taken other than to note this.

- SDGs L1139441, L1141285, L1141323, L1141868, L1141869, L1141887, L1141922, and L1147020 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks are included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the method detection limit (MDLs) or the reporting detection limit (RDLs) with the following exceptions:

- SDG L1139441: Chloroform and 2-butanone (MEK) are detected below the RDLs in the method blank (analytical batch WG1348193). **All associated chloroform and 2-butanone (MEK) detections are detected below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDG L1139441: Chloroform is detected below the RDLs in the method blank (analytical batches WG1349125, WG1350568, and WG1350962). **All associated chloroform detections are detected below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDG L1141285: Acetone and chloroform are detected above and below the RDLs in the method blank (analytical batch WG1350809). **Associated chloroform detection in sample MW-328-55 is detected below the RDL and qualified as not detected (U) due to blank contamination.** No action is taken for acetone detections above the RDL.

- SDG L1141285: Chloroform is detected below the RDLs in the method blank (analytical batches WG1350957 and WG1350958). No action is taken since chloroform is not detected in the associated samples.

- SDG L1141285: Acetone is detected below the RDL in the method blank (analytical batch WG1351851). No action is taken on this basis since the method blank is associated with the trip blank sample (TB-091619).

- SDG L1141323: Chloroform is detected below the RDL in the method blank (analytical batch WG1350957). No action is taken since chloroform is not detected in the associated samples.

- SDG L1141323: Acetone is detected below the RDL in the method blank (analytical batch WG1351851). No action is taken on this basis since the method blank is associated with the trip blank sample (TB-091619).

- SDG L1141868: 1,1,1-Trichloroethane is detected below the RDL in the method blank (analytical batch WG1351851). No action is taken on this basis since the method blank is associated with the trip blank sample (TB-091919).

- SDG L1141868: Chloroform, trans-1,2-dichloroethene, and 2-butanone (MEK) are detected in the method blank (analytical batch WG1353861) at low levels below the RDLs. **All associated chloroform and 2-butanone (MEK) detections are detected below the RDL and are qualified as not detected (U) due to blank contamination.** Compound trans-1,2-dichloroethene was not detected in the associated samples and no action is required.

- SDGs L1141868: Methylene chloride is detected in the method blank (analytical batch WG1353892) at a low level below the RDL. **Associated methylene chloride detections in samples MW-190-70, MW-190-75, MW-190-80, and MW-190-85 are detected below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDGs L1141869, L1141887, and L1141922: 1,1,1-Trichloroethane is detected in both the trip blank and the method blank (analytical batch WG1353837) associated with the trip blank at a low level below the RDL. This compound (1,1,1-trichloroethane) was not detected in samples associated with SDGs L1141869, L1141887, and L1141922. No action was taken on this basis.

- SDGs L1141869 and L1141887: Methylene chloride is detected in the method blank (analytical batch WG1354017) at a low level below the RDL. **Associated methylene chloride detections are detected below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDG L1141887: Acetone is detected in the method blank (analytical batch WG1354025) at a low level below the RDL. Acetone was not detected in the associated samples (MW-2005-65 and MW-2007-70) and no action is required.

- SDG L1141887: Chloroform, trans-1,2-dichloroethene, and 2-butanone (MEK) are detected in the method blank (analytical batch WG1354779) at a low level below the RDL. **Associated sample MW-311-70 chloroform detection below the RDL and is qualified as not detected (U) due to blank contamination.**

- SDG L1141922: Multiple compounds are detected in the method blank (analytical batch WG1354025) at a low level below the RDL. **Associated detections below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDG L1147020: Benzene, chloroform, and 2-butanone (MEK) are detected in the method blank (analytical batch WG1362682) at a low level below the RDL. Actions are as follows:
    - **Associated sample MW-304-60 benzene detection falls below the RDL and is qualified as not detected (U) due to blank contamination.** No action is taken for benzene detections above the RDL.
    - **Associated sample (MW-304-10, MW-304-20, MW-304-50, MW-304-55, MW-304-75, and MW-304-90) chloroform detections are below the RDL and are qualified as not detected (U) due to blank contamination.**
    - **Associated sample (MW-304-5, MW-304-10, MW-304-15, MW-304-20, MW-304-25, MW-304-30, MW-304-40, MW-304-45, MW-304-50, MW-304-55, , MW-304-60, MW-304-70, MW-304-75, MW-304-80, MW-304-85, and MW-304-90, MW-304-110) MEK detections are below the RDL and are qualified as not detected (U) due to blank contamination.**
- SDG L1147020: 2-Butanone (MEK), methylene chloride, and 1,2,4-trimethylbenzene are detected in the method blank (analytical batch WG1362726) at a low level below the RDL. These compounds were not detected in the associated samples (MW-304-95, MW-304-100, MW-304-105, MW-304-115, and MW-2009-95) and no action is required.
- SDG L1147020: Chloroform, 2-butanone (MEK), and methylene chloride are detected in the method blank (analytical batch WG1363157) at a low level below the RDL. **Associated sample MW-304-110 MEK detection is below the RDL and is qualified as not detected (U) due to blank contamination.**

NWTPH-Gx Method:
A laboratory method blank was included with the analytical batch per method requirement. The target analyte (gasoline) is not detected in the method blank at a concentration at or above the RDL.

Trip Blank Results

USEPA Method 8260C:
Eight trip blanks (TB-091219, TB-091619, TB-091619, TB-091819, TB-091919, TB-092029, TB2-092029, and TB-100219) were collected and analyzed. The target analytes were not detected in the trip blanks at or above the MDLs or RDLs with the following exceptions:

- SDG L1141285: A low level of acetone, below the RDL, is detected in the trip blank. Low levels of acetone (below the RDL) are detected in associated samples MW-328-15 and MW-328-20. **The acetone detections in these samples are qualified as not detected (U) due to trip blank contamination.** No action is taken for acetone detections above the RDL.
- SDG L1141323: A low level of acetone, below the RDL, is detected in the trip blank and in the associated method blank (analyzed with the trip blank). Low levels of acetone (above the

RDL) are detected in associated samples. No action is taken for acetone detections above the RDL.

- SDGs L1141868, L1141869, L1141887, and L1141922: Low levels of 1,1,1-trichloroethane, below the RDL, are detected in the trip blanks and associated method blank (analytical batch WG1353837). No action is required since 1,1,1-trichloroethane is not detected in the associated samples.

- SDG L1147020: A low level of acetone, below the RDL, is detected in the trip blank. No action is required since acetone is not detected in the associated samples below the RDL.

Field, Rinsate, or Equipment Blank Results

Field, rinsate or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate sample pairs are as follows:

- SDG L1139441: Samples MW-324-25 and MW-2002-25;
- SDG L1141323: Samples MW-312-20 and MW-2004-20;
- SDG L1141868: Samples MW-190-60 and MW-2008-60;
- SDG L1141869: Samples MW-319-70 and MW-2006-70;
- SDG L1141887: Samples MW-311-65 and MW-2005-65;
- SDG L1141887: Samples MW-311-70 and MW-2007-70; and
- SDG L1147020: Samples MW-304-95 and MW-2009-95.

Field duplicate pairs were submitted and analyzed for VOCs and percent solids. Percent solids and VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 2x RDL for soil results <5X the RDL) for the field duplicates with the following exceptions:

- SDG L1141868: Samples MW-190-60 and MW-2008-60; **Field duplicate results for cis-1,2-dichloroethene and tetrachloroethene are not comparable and are qualified as estimated (J).**

- SDG L1141323: Samples MW-312-20 and MW-2004-20; **Field duplicate results for n-butylbenzene, sec-butylbenzene, and 1,2,3-trimethylbenzene are not comparable and are qualified as estimated (UJ/J).**

Laboratory Duplicate Analyses

USEPA Method 8260C:
Laboratory duplicate analyses were not performed. Refer to laboratory control samples, field duplicate samples, or matrix spike results for precision data.

NWTPH-Gx Method:
Laboratory duplicate analyses were not performed. Refer to matrix spike results for precision data.

Total Solids by SM 2540 G-2011:
Laboratory duplicate samples were performed on client and non-client samples associated with the analytical batches. The RPDs for percent moisture are within the laboratory control limit of 20% RPD.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, and the method blanks are within the laboratory surrogate control limits for all the analyses with the following exceptions:

- SDG L113944: Trip blank (TB-091219) surrogate recovery (analytical batch WG1348964 and WG1348450*)* is above criteria. No action is taken on this basis as this is a trip blank and elevated surrogate recovery has no impact on the associated sample results.

NWTPH-Gx Method:
The surrogate recovery results for the samples, matrix spike samples, laboratory control sample, and the method blank are within the laboratory surrogate control limits for all the analyses.

Matrix Spike/ Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on one non-client sample associated (refer to SDG L1147020). The MS/MSD %R's and RPDs for the target compounds are within the laboratory control criteria for soils. For this SDG and the remaining SDGs refer to laboratory control samples and field duplicate samples for accuracy and precision data.

NWTPH-Gx Method:
Gasoline analysis are associated with one SDG (SDG L1141868). MS/MSD analyses were performed on a non-client soil sample within the analytical batch. MS/MSD % R's and RPD are within laboratory control limit criteria however results are qualified (E) by the laboratory to indicate that the sample amount exceeded upper range of the calibration curve. No action is taken since the spike was performed on a non-client sample. Refer to laboratory control samples and field duplicate samples for accuracy and precision data.

Laboratory Control Samples

USEPA Method 8260C:
Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed by USEPA Method 8260C. In some cases, only an LCS was analyzed and for precision data refer

to field duplicate results. The LCS or LCS/LCSD %R's and RPDs for the target compounds are within the laboratory control criteria for soils with the following discussion:

- SDGs L1139441 and L1141285 and L1141323: LCS (WG1350962) 1,1,2,2-tetrachloroethane recovery was detected slightly below (at 67.9%) the laboratory acceptance criteria (68-128%) and laboratory qualified (J4). In this case no action is taken since the rounded value is within criteria.

- SDG L1141285 and SDG L1141323: LCS/LCSD (WG1351851) trans-1,4-dichloro-2-butene recoveries are above laboratory acceptance criteria and laboratory qualified (J4). Vinyl chloride RPD is outside of laboratory acceptance criteria. No action is taken on this basis as the associated sample is the trip blank (TB-091619).

- SDG L1147020: LCSD recovery for idomethane is slightly below the laboratory acceptance criteria and laboratory qualified (J4). RPD value for idomethane exceeds laboratory control limit criteria. **Sample MW-304-95, MW-304-100, MW-304-115, and MW-2009-95 idomethane (referred to as methyl iodide in the electronic data deliverables) results are estimated and qualified (UJ/J).**

- SDG L1147020: LCS recovery for chloromethane is above laboratory acceptance criteria and laboratory qualified (J4). No action is taken since chloromethane was not detected in the associated sample.

NWTPH-Gx Method:
An LCS was analyzed by NWTPH-GX. For precision data refer matrix spike results. The LCS %R for the target compound is within the laboratory control criteria for soils.

Moisture by Method 8000D:
LCSs were analyzed within the analytical batch. For precision data refer to laboratory or field duplicate results. The LCS %Rs for the target compound is within the laboratory control criteria for soils.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory reports with the following discussion:

- Electronic data deliverables (EDDs) for these Work Orders were provided by the laboratory and data validator qualifiers were entered, as appropriate, into the EDDs.

Quantitation Limits

Results of all analyses were reported based on standard laboratory RLs. The reported RLs are considered appropriate for this project. RLs in nearly all cases are raised (10X) for method-required dilutions. Sample narratives are noted for the following samples:

- SDG L1139441: Sample narrative notes indicate that samples MW-314-70 and MW-314-75 were analyzed at the lowest possible dilution due to limited sample volume.

- SDG L1141285: Sample narrative notes indicate that sample MW-328-30 was analyzed at the lowest possible dilution due to a sample prep factor.

- SDG L1141887: Sample narrative notes indicate that samples MW-311-15, MW-311-20, MW-311-25, MW-311-30, MW-311-35, MW-311-60 and MW-2007-70 were analyzed at the lowest possible dilution due to limited sample volume.

Completeness

The samples were collected and analyzed as requested. Data completeness is 100%.

Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017)

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.0		1	09/19/2019 20:23	WG1349074

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0664			0.0156	0.0284	1	09/19/2019 05:48	WG1348193
Acrylonitrile	U			0.00216	0.0142	1	09/19/2019 05:48	WG1348193
Benzene	0.000909	J	J	0.000454	0.00114	1	09/19/2019 05:48	WG1348193
Bromobenzene	U			0.00119	0.0142	1	09/19/2019 05:48	WG1348193
Bromodichloromethane	U			0.000895	0.00284	1	09/19/2019 05:48	WG1348193
Bromochloromethane	U			0.00128	0.00568	1	09/19/2019 05:48	WG1348193
Bromoform	U			0.00679	0.0284	1	09/19/2019 05:48	WG1348193
Bromomethane	U			0.00420	0.0142	1	09/19/2019 05:48	WG1348193
n-Butylbenzene	U			0.00436	0.0142	1	09/19/2019 05:48	WG1348193
sec-Butylbenzene	U			0.00287	0.0142	1	09/19/2019 05:48	WG1348193
tert-Butylbenzene	U			0.00176	0.00568	1	09/19/2019 05:48	WG1348193
Carbon disulfide	U			0.00461	0.0142	1	09/19/2019 05:48	WG1348193
Carbon tetrachloride	U			0.00123	0.00568	1	09/19/2019 05:48	WG1348193
Chlorobenzene	U			0.000651	0.00284	1	09/19/2019 05:48	WG1348193
Chlorodibromomethane	U			0.000511	0.00284	1	09/19/2019 05:48	WG1348193
Chloroethane	U			0.00123	0.00568	1	09/19/2019 05:48	WG1348193
Chloroform	U			0.000471	0.00284	1	09/19/2019 05:48	WG1348193
Chloromethane	U			0.00158	0.0142	1	09/19/2019 05:48	WG1348193
2-Chlorotoluene	U			0.00105	0.00284	1	09/19/2019 05:48	WG1348193
4-Chlorotoluene	U			0.00128	0.00568	1	09/19/2019 05:48	WG1348193
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00579	0.0284	1	09/19/2019 05:48	WG1348193
1,2-Dibromoethane	U			0.000596	0.00284	1	09/19/2019 05:48	WG1348193
Dibromomethane	U			0.00114	0.00568	1	09/19/2019 05:48	WG1348193
1,2-Dichlorobenzene	U			0.00165	0.00568	1	09/19/2019 05:48	WG1348193
1,3-Dichlorobenzene	U			0.00193	0.00568	1	09/19/2019 05:48	WG1348193
1,4-Dichlorobenzene	U			0.00224	0.00568	1	09/19/2019 05:48	WG1348193
Dichlorodifluoromethane	U			0.000929	0.00284	1	09/19/2019 05:48	WG1348193
1,1-Dichloroethane	U			0.000653	0.00284	1	09/19/2019 05:48	WG1348193
1,2-Dichloroethane	U			0.000540	0.00284	1	09/19/2019 05:48	WG1348193
1,1-Dichloroethene	U			0.000568	0.00284	1	09/19/2019 05:48	WG1348193
cis-1,2-Dichloroethene	U			0.000784	0.00284	1	09/19/2019 05:48	WG1348193
trans-1,2-Dichloroethene	U			0.00162	0.00568	1	09/19/2019 05:48	WG1348193
1,2-Dichloropropane	U			0.00144	0.00568	1	09/19/2019 05:48	WG1348193
1,1-Dichloropropene	U			0.000795	0.00284	1	09/19/2019 05:48	WG1348193
1,3-Dichloropropane	U			0.00199	0.00568	1	09/19/2019 05:48	WG1348193
cis-1,3-Dichloropropene	U			0.000770	0.00284	1	09/19/2019 05:48	WG1348193
trans-1,3-Dichloropropene	U			0.00174	0.00568	1	09/19/2019 05:48	WG1348193
trans-1,4-Dichloro-2-butene	U			0.00159	0.00568	1	09/19/2019 05:48	WG1348193
2,2-Dichloropropane	U			0.000901	0.00284	1	09/19/2019 05:48	WG1348193
Di-isopropyl ether	U			0.000398	0.00114	1	09/19/2019 05:48	WG1348193
Ethylbenzene	0.000803	J	J	0.000602	0.00284	1	09/19/2019 05:48	WG1348193
Hexachloro-1,3-butadiene	U			0.0144	0.0284	1	09/19/2019 05:48	WG1348193
2-Hexanone	U			0.0114	0.0284	1	09/19/2019 05:48	WG1348193
n-Hexane	U			0.00120	0.00568	1	09/19/2019 05:48	WG1348193
Iodomethane	U			0.00687	0.0142	1	09/19/2019 05:48	WG1348193
Isopropylbenzene	U			0.000980	0.00284	1	09/19/2019 05:48	WG1348193
p-Isopropyltoluene	U			0.00265	0.00568	1	09/19/2019 05:48	WG1348193
2-Butanone (MEK)	0.0191	U	B J	0.0142	0.0284	1	09/19/2019 05:48	WG1348193
Methylene Chloride	U			0.00754	0.0284	1	09/19/2019 05:48	WG1348193
4-Methyl-2-pentanone (MIBK)	U			0.0114	0.0284	1	09/19/2019 05:48	WG1348193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000335	0.00114	1	09/19/2019 05:48	WG1348193
Naphthalene	0.00398 J	J	0.00354	0.0142	1	09/19/2019 05:48	WG1348193
n-Propylbenzene	U		0.00134	0.00568	1	09/19/2019 05:48	WG1348193
Styrene	U		0.00310	0.0142	1	09/19/2019 05:48	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000568	0.00284	1	09/19/2019 05:48	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000443	0.00284	1	09/19/2019 05:48	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000767	0.00284	1	09/19/2019 05:48	WG1348193
Tetrachloroethene	0.00325		0.000795	0.00284	1	09/19/2019 05:48	WG1348193
Toluene	0.00468 J	J	0.00142	0.00568	1	09/19/2019 05:48	WG1348193
1,2,3-Trichlorobenzene	U		0.000710	0.00284	1	09/19/2019 05:48	WG1348193
1,2,4-Trichlorobenzene	U		0.00548	0.0142	1	09/19/2019 05:48	WG1348193
1,1,1-Trichloroethane	U		0.000312	0.00284	1	09/19/2019 05:48	WG1348193
1,1,2-Trichloroethane	U		0.00100	0.00284	1	09/19/2019 05:48	WG1348193
Trichloroethene	U		0.000454	0.00114	1	09/19/2019 05:48	WG1348193
Trichlorofluoromethane	U		0.000568	0.00284	1	09/19/2019 05:48	WG1348193
1,2,3-Trichloropropane	U		0.00579	0.0142	1	09/19/2019 05:48	WG1348193
1,2,4-Trimethylbenzene	0.00465 J	J	0.00132	0.00568	1	09/19/2019 05:48	WG1348193
1,2,3-Trimethylbenzene	0.00365 J	J	0.00131	0.00568	1	09/19/2019 05:48	WG1348193
1,3,5-Trimethylbenzene	0.00156 J	J	0.00123	0.00568	1	09/19/2019 05:48	WG1348193
Vinyl acetate	U		0.00400	0.0142	1	09/19/2019 05:48	WG1348193
Vinyl chloride	U		0.000776	0.00284	1	09/19/2019 05:48	WG1348193
Xylenes, Total	0.00561 J	J	0.00543	0.00738	1	09/19/2019 05:48	WG1348193
(S) Toluene-d8	*106*			*75.0-131*		*09/19/2019 05:48*	WG1348193
(S) 4-Bromofluorobenzene	*98.3*			*67.0-138*		*09/19/2019 05:48*	WG1348193
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*09/19/2019 05:48*	WG1348193

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.4		1	09/19/2019 20:23	WG1349074

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0406		0.0157	0.0287	1.06	09/19/2019 06:10	WG1348193
Acrylonitrile	U		0.00218	0.0143	1.06	09/19/2019 06:10	WG1348193
Benzene	U		0.000459	0.00115	1.06	09/19/2019 06:10	WG1348193
Bromobenzene	U		0.00120	0.0143	1.06	09/19/2019 06:10	WG1348193
Bromodichloromethane	U		0.000904	0.00287	1.06	09/19/2019 06:10	WG1348193
Bromochloromethane	U		0.00130	0.00574	1.06	09/19/2019 06:10	WG1348193
Bromoform	U		0.00686	0.0287	1.06	09/19/2019 06:10	WG1348193
Bromomethane	U		0.00424	0.0143	1.06	09/19/2019 06:10	WG1348193
n-Butylbenzene	U		0.00441	0.0143	1.06	09/19/2019 06:10	WG1348193
sec-Butylbenzene	U		0.00290	0.0143	1.06	09/19/2019 06:10	WG1348193
tert-Butylbenzene	U		0.00178	0.00574	1.06	09/19/2019 06:10	WG1348193
Carbon disulfide	U		0.00465	0.0143	1.06	09/19/2019 06:10	WG1348193
Carbon tetrachloride	U		0.00123	0.00574	1.06	09/19/2019 06:10	WG1348193
Chlorobenzene	U		0.000657	0.00287	1.06	09/19/2019 06:10	WG1348193
Chlorodibromomethane	U		0.000516	0.00287	1.06	09/19/2019 06:10	WG1348193
Chloroethane	U		0.00123	0.00574	1.06	09/19/2019 06:10	WG1348193
Chloroform	U		0.000476	0.00287	1.06	09/19/2019 06:10	WG1348193
Chloromethane	U		0.00159	0.0143	1.06	09/19/2019 06:10	WG1348193
2-Chlorotoluene	U		0.00106	0.00287	1.06	09/19/2019 06:10	WG1348193
4-Chlorotoluene	U		0.00130	0.00574	1.06	09/19/2019 06:10	WG1348193
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00586	0.0287	1.06	09/19/2019 06:10	WG1348193
1,2-Dibromoethane	U		0.000602	0.00287	1.06	09/19/2019 06:10	WG1348193
Dibromomethane	U		0.00115	0.00574	1.06	09/19/2019 06:10	WG1348193
1,2-Dichlorobenzene	U		0.00167	0.00574	1.06	09/19/2019 06:10	WG1348193
1,3-Dichlorobenzene	U		0.00195	0.00574	1.06	09/19/2019 06:10	WG1348193
1,4-Dichlorobenzene	U		0.00226	0.00574	1.06	09/19/2019 06:10	WG1348193
Dichlorodifluoromethane	U		0.000938	0.00287	1.06	09/19/2019 06:10	WG1348193
1,1-Dichloroethane	U		0.000660	0.00287	1.06	09/19/2019 06:10	WG1348193
1,2-Dichloroethane	U		0.000546	0.00287	1.06	09/19/2019 06:10	WG1348193
1,1-Dichloroethene	U		0.000574	0.00287	1.06	09/19/2019 06:10	WG1348193
cis-1,2-Dichloroethene	U		0.000791	0.00287	1.06	09/19/2019 06:10	WG1348193
trans-1,2-Dichloroethene	U		0.00165	0.00574	1.06	09/19/2019 06:10	WG1348193
1,2-Dichloropropane	U		0.00146	0.00574	1.06	09/19/2019 06:10	WG1348193
1,1-Dichloropropene	U		0.000803	0.00287	1.06	09/19/2019 06:10	WG1348193
1,3-Dichloropropane	U		0.00201	0.00574	1.06	09/19/2019 06:10	WG1348193
cis-1,3-Dichloropropene	U		0.000778	0.00287	1.06	09/19/2019 06:10	WG1348193
trans-1,3-Dichloropropene	U		0.00175	0.00574	1.06	09/19/2019 06:10	WG1348193
trans-1,4-Dichloro-2-butene	U		0.00160	0.00574	1.06	09/19/2019 06:10	WG1348193
2,2-Dichloropropane	U		0.000909	0.00287	1.06	09/19/2019 06:10	WG1348193
Di-isopropyl ether	U		0.000402	0.00115	1.06	09/19/2019 06:10	WG1348193
Ethylbenzene	U		0.000608	0.00287	1.06	09/19/2019 06:10	WG1348193
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1.06	09/19/2019 06:10	WG1348193
2-Hexanone	U		0.0115	0.0287	1.06	09/19/2019 06:10	WG1348193
n-Hexane	U		0.00121	0.00574	1.06	09/19/2019 06:10	WG1348193
Iodomethane	U		0.00694	0.0143	1.06	09/19/2019 06:10	WG1348193
Isopropylbenzene	U		0.000990	0.00287	1.06	09/19/2019 06:10	WG1348193
p-Isopropyltoluene	U		0.00267	0.00574	1.06	09/19/2019 06:10	WG1348193
2-Butanone (MEK)	0.0286	U B J	0.0143	0.0287	1.06	09/19/2019 06:10	WG1348193
Methylene Chloride	U		0.00762	0.0287	1.06	09/19/2019 06:10	WG1348193
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1.06	09/19/2019 06:10	WG1348193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000339	0.00115	1.06	09/19/2019 06:10	WG1348193
Naphthalene	U		0.00358	0.0143	1.06	09/19/2019 06:10	WG1348193
n-Propylbenzene	U		0.00135	0.00574	1.06	09/19/2019 06:10	WG1348193
Styrene	U		0.00313	0.0143	1.06	09/19/2019 06:10	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1.06	09/19/2019 06:10	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000447	0.00287	1.06	09/19/2019 06:10	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000775	0.00287	1.06	09/19/2019 06:10	WG1348193
Tetrachloroethene	U		0.000803	0.00287	1.06	09/19/2019 06:10	WG1348193
Toluene	0.00970		0.00143	0.00574	1.06	09/19/2019 06:10	WG1348193
1,2,3-Trichlorobenzene	U		0.000717	0.00287	1.06	09/19/2019 06:10	WG1348193
1,2,4-Trichlorobenzene	U		0.00553	0.0143	1.06	09/19/2019 06:10	WG1348193
1,1,1-Trichloroethane	U		0.000316	0.00287	1.06	09/19/2019 06:10	WG1348193
1,1,2-Trichloroethane	U		0.00101	0.00287	1.06	09/19/2019 06:10	WG1348193
Trichloroethene	U		0.000459	0.00115	1.06	09/19/2019 06:10	WG1348193
Trichlorofluoromethane	U		0.000574	0.00287	1.06	09/19/2019 06:10	WG1348193
1,2,3-Trichloropropane	U		0.00586	0.0143	1.06	09/19/2019 06:10	WG1348193
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1.06	09/19/2019 06:10	WG1348193
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1.06	09/19/2019 06:10	WG1348193
1,3,5-Trimethylbenzene	U		0.00123	0.00574	1.06	09/19/2019 06:10	WG1348193
Vinyl acetate	U		0.00404	0.0143	1.06	09/19/2019 06:10	WG1348193
Vinyl chloride	U		0.000784	0.00287	1.06	09/19/2019 06:10	WG1348193
Xylenes, Total	U		0.00549	0.00746	1.06	09/19/2019 06:10	WG1348193
(S) Toluene-d8	*106*			*75.0-131*		*09/19/2019 06:10*	WG1348193
(S) 4-Bromofluorobenzene	*98.5*			*67.0-138*		*09/19/2019 06:10*	WG1348193
(S) 1,2-Dichloroethane-d4	*93.7*			*70.0-130*		*09/19/2019 06:10*	WG1348193

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	09/19/2019 20:23	WG1349074

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0326		0.0154	0.0281	1	09/19/2019 06:31	WG1348193
Acrylonitrile	U		0.00214	0.0141	1	09/19/2019 06:31	WG1348193
Benzene	U		0.000450	0.00113	1	09/19/2019 06:31	WG1348193
Bromobenzene	U		0.00118	0.0141	1	09/19/2019 06:31	WG1348193
Bromodichloromethane	U		0.000887	0.00281	1	09/19/2019 06:31	WG1348193
Bromochloromethane	U		0.00127	0.00563	1	09/19/2019 06:31	WG1348193
Bromoform	U		0.00673	0.0281	1	09/19/2019 06:31	WG1348193
Bromomethane	U		0.00416	0.0141	1	09/19/2019 06:31	WG1348193
n-Butylbenzene	U		0.00432	0.0141	1	09/19/2019 06:31	WG1348193
sec-Butylbenzene	U		0.00285	0.0141	1	09/19/2019 06:31	WG1348193
tert-Butylbenzene	U		0.00174	0.00563	1	09/19/2019 06:31	WG1348193
Carbon disulfide	U		0.00457	0.0141	1	09/19/2019 06:31	WG1348193
Carbon tetrachloride	U		0.00122	0.00563	1	09/19/2019 06:31	WG1348193
Chlorobenzene	U		0.000645	0.00281	1	09/19/2019 06:31	WG1348193
Chlorodibromomethane	U		0.000506	0.00281	1	09/19/2019 06:31	WG1348193
Chloroethane	U		0.00122	0.00563	1	09/19/2019 06:31	WG1348193
Chloroform	U		0.000467	0.00281	1	09/19/2019 06:31	WG1348193
Chloromethane	U		0.00156	0.0141	1	09/19/2019 06:31	WG1348193
2-Chlorotoluene	U		0.00104	0.00281	1	09/19/2019 06:31	WG1348193
4-Chlorotoluene	U		0.00127	0.00563	1	09/19/2019 06:31	WG1348193
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00574	0.0281	1	09/19/2019 06:31	WG1348193
1,2-Dibromoethane	U		0.000591	0.00281	1	09/19/2019 06:31	WG1348193
Dibromomethane	U		0.00113	0.00563	1	09/19/2019 06:31	WG1348193
1,2-Dichlorobenzene	U		0.00163	0.00563	1	09/19/2019 06:31	WG1348193
1,3-Dichlorobenzene	U		0.00191	0.00563	1	09/19/2019 06:31	WG1348193
1,4-Dichlorobenzene	U		0.00222	0.00563	1	09/19/2019 06:31	WG1348193
Dichlorodifluoromethane	U		0.000920	0.00281	1	09/19/2019 06:31	WG1348193
1,1-Dichloroethane	U		0.000647	0.00281	1	09/19/2019 06:31	WG1348193
1,2-Dichloroethane	U		0.000534	0.00281	1	09/19/2019 06:31	WG1348193
1,1-Dichloroethene	U		0.000563	0.00281	1	09/19/2019 06:31	WG1348193
cis-1,2-Dichloroethene	U		0.000776	0.00281	1	09/19/2019 06:31	WG1348193
trans-1,2-Dichloroethene	U		0.00161	0.00563	1	09/19/2019 06:31	WG1348193
1,2-Dichloropropane	U		0.00143	0.00563	1	09/19/2019 06:31	WG1348193
1,1-Dichloropropene	U		0.000788	0.00281	1	09/19/2019 06:31	WG1348193
1,3-Dichloropropane	U		0.00197	0.00563	1	09/19/2019 06:31	WG1348193
cis-1,3-Dichloropropene	U		0.000763	0.00281	1	09/19/2019 06:31	WG1348193
trans-1,3-Dichloropropene	U		0.00172	0.00563	1	09/19/2019 06:31	WG1348193
trans-1,4-Dichloro-2-butene	U		0.00158	0.00563	1	09/19/2019 06:31	WG1348193
2,2-Dichloropropane	U		0.000892	0.00281	1	09/19/2019 06:31	WG1348193
Di-isopropyl ether	U		0.000394	0.00113	1	09/19/2019 06:31	WG1348193
Ethylbenzene	U		0.000596	0.00281	1	09/19/2019 06:31	WG1348193
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	09/19/2019 06:31	WG1348193
2-Hexanone	U		0.0113	0.0281	1	09/19/2019 06:31	WG1348193
n-Hexane	U		0.00119	0.00563	1	09/19/2019 06:31	WG1348193
Iodomethane	U		0.00681	0.0141	1	09/19/2019 06:31	WG1348193
Isopropylbenzene	U		0.000971	0.00281	1	09/19/2019 06:31	WG1348193
p-Isopropyltoluene	U		0.00262	0.00563	1	09/19/2019 06:31	WG1348193
2-Butanone (MEK)	0.0245 U	B J	0.0141	0.0281	1	09/19/2019 06:31	WG1348193
Methylene Chloride	U		0.00747	0.0281	1	09/19/2019 06:31	WG1348193
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0281	1	09/19/2019 06:31	WG1348193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00113	1	09/19/2019 06:31	WG1348193
Naphthalene	U		0.00351	0.0141	1	09/19/2019 06:31	WG1348193
n-Propylbenzene	U		0.00133	0.00563	1	09/19/2019 06:31	WG1348193
Styrene	U		0.00307	0.0141	1	09/19/2019 06:31	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000563	0.00281	1	09/19/2019 06:31	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000439	0.00281	1	09/19/2019 06:31	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000759	0.00281	1	09/19/2019 06:31	WG1348193
Tetrachloroethene	U		0.000788	0.00281	1	09/19/2019 06:31	WG1348193
Toluene	0.0101		0.00141	0.00563	1	09/19/2019 06:31	WG1348193
1,2,3-Trichlorobenzene	U		0.000703	0.00281	1	09/19/2019 06:31	WG1348193
1,2,4-Trichlorobenzene	U		0.00542	0.0141	1	09/19/2019 06:31	WG1348193
1,1,1-Trichloroethane	U		0.000309	0.00281	1	09/19/2019 06:31	WG1348193
1,1,2-Trichloroethane	U		0.000993	0.00281	1	09/19/2019 06:31	WG1348193
Trichloroethene	U		0.000450	0.00113	1	09/19/2019 06:31	WG1348193
Trichlorofluoromethane	U		0.000563	0.00281	1	09/19/2019 06:31	WG1348193
1,2,3-Trichloropropane	U		0.00574	0.0141	1	09/19/2019 06:31	WG1348193
1,2,4-Trimethylbenzene	U		0.00131	0.00563	1	09/19/2019 06:31	WG1348193
1,2,3-Trimethylbenzene	U		0.00129	0.00563	1	09/19/2019 06:31	WG1348193
1,3,5-Trimethylbenzene	U		0.00122	0.00563	1	09/19/2019 06:31	WG1348193
Vinyl acetate	U		0.00396	0.0141	1	09/19/2019 06:31	WG1348193
Vinyl chloride	U		0.000768	0.00281	1	09/19/2019 06:31	WG1348193
Xylenes, Total	U		0.00538	0.00731	1	09/19/2019 06:31	WG1348193
(S) Toluene-d8	*105*			*75.0-131*		*09/19/2019 06:31*	WG1348193
(S) 4-Bromofluorobenzene	*97.1*			*67.0-138*		*09/19/2019 06:31*	WG1348193
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*09/19/2019 06:31*	WG1348193

MW-314-20
Collected date/time: 09/13/19 10:12

SAMPLE RESULTS - 04

L1139441

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	09/19/2019 20:23	WG1349074

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0362		0.0157	0.0287	1	09/19/2019 08:38	WG1348193
Acrylonitrile	U		0.00218	0.0143	1	09/19/2019 08:38	WG1348193
Benzene	0.000940 J	J	0.000459	0.00115	1	09/19/2019 08:38	WG1348193
Bromobenzene	U		0.00120	0.0143	1	09/19/2019 08:38	WG1348193
Bromodichloromethane	U		0.000904	0.00287	1	09/19/2019 08:38	WG1348193
Bromochloromethane	U		0.00130	0.00574	1	09/19/2019 08:38	WG1348193
Bromoform	U		0.00686	0.0287	1	09/19/2019 08:38	WG1348193
Bromomethane	U		0.00425	0.0143	1	09/19/2019 08:38	WG1348193
n-Butylbenzene	U		0.00441	0.0143	1	09/19/2019 08:38	WG1348193
sec-Butylbenzene	U		0.00290	0.0143	1	09/19/2019 08:38	WG1348193
tert-Butylbenzene	U		0.00178	0.00574	1	09/19/2019 08:38	WG1348193
Carbon disulfide	U		0.00466	0.0143	1	09/19/2019 08:38	WG1348193
Carbon tetrachloride	U		0.00124	0.00574	1	09/19/2019 08:38	WG1348193
Chlorobenzene	U		0.000658	0.00287	1	09/19/2019 08:38	WG1348193
Chlorodibromomethane	U		0.000516	0.00287	1	09/19/2019 08:38	WG1348193
Chloroethane	U		0.00124	0.00574	1	09/19/2019 08:38	WG1348193
Chloroform	0.000729 U	B J	0.000476	0.00287	1	09/19/2019 08:38	WG1348193
Chloromethane	U		0.00160	0.0143	1	09/19/2019 08:38	WG1348193
2-Chlorotoluene	U		0.00106	0.00287	1	09/19/2019 08:38	WG1348193
4-Chlorotoluene	U		0.00130	0.00574	1	09/19/2019 08:38	WG1348193
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00585	0.0287	1	09/19/2019 08:38	WG1348193
1,2-Dibromoethane	U		0.000602	0.00287	1	09/19/2019 08:38	WG1348193
Dibromomethane	U		0.00115	0.00574	1	09/19/2019 08:38	WG1348193
1,2-Dichlorobenzene	U		0.00166	0.00574	1	09/19/2019 08:38	WG1348193
1,3-Dichlorobenzene	U		0.00195	0.00574	1	09/19/2019 08:38	WG1348193
1,4-Dichlorobenzene	U		0.00226	0.00574	1	09/19/2019 08:38	WG1348193
Dichlorodifluoromethane	U		0.000939	0.00287	1	09/19/2019 08:38	WG1348193
1,1-Dichloroethane	U		0.000660	0.00287	1	09/19/2019 08:38	WG1348193
1,2-Dichloroethane	U		0.000545	0.00287	1	09/19/2019 08:38	WG1348193
1,1-Dichloroethene	U		0.000574	0.00287	1	09/19/2019 08:38	WG1348193
cis-1,2-Dichloroethene	0.00292		0.000792	0.00287	1	09/19/2019 08:38	WG1348193
trans-1,2-Dichloroethene	U		0.00164	0.00574	1	09/19/2019 08:38	WG1348193
1,2-Dichloropropane	U		0.00146	0.00574	1	09/19/2019 08:38	WG1348193
1,1-Dichloropropene	U		0.000803	0.00287	1	09/19/2019 08:38	WG1348193
1,3-Dichloropropane	U		0.00201	0.00574	1	09/19/2019 08:38	WG1348193
cis-1,3-Dichloropropene	U		0.000778	0.00287	1	09/19/2019 08:38	WG1348193
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	09/19/2019 08:38	WG1348193
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	09/19/2019 08:38	WG1348193
2,2-Dichloropropane	U		0.000910	0.00287	1	09/19/2019 08:38	WG1348193
Di-isopropyl ether	U		0.000402	0.00115	1	09/19/2019 08:38	WG1348193
Ethylbenzene	U		0.000608	0.00287	1	09/19/2019 08:38	WG1348193
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	09/19/2019 08:38	WG1348193
2-Hexanone	U		0.0115	0.0287	1	09/19/2019 08:38	WG1348193
n-Hexane	U		0.00122	0.00574	1	09/19/2019 08:38	WG1348193
Iodomethane	U		0.00694	0.0143	1	09/19/2019 08:38	WG1348193
Isopropylbenzene	U		0.000990	0.00287	1	09/19/2019 08:38	WG1348193
p-Isopropyltoluene	U		0.00267	0.00574	1	09/19/2019 08:38	WG1348193
2-Butanone (MEK)	0.0267 U	B J	0.0143	0.0287	1	09/19/2019 08:38	WG1348193
Methylene Chloride	U		0.00762	0.0287	1	09/19/2019 08:38	WG1348193
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	09/19/2019 08:38	WG1348193

MW-314-20

Collected date/time: 09/13/19 10:12

SAMPLE RESULTS - 04

L1139441

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000339	0.00115	1	09/19/2019 08:38	WG1348193
Naphthalene	U		0.00358	0.0143	1	09/19/2019 08:38	WG1348193
n-Propylbenzene	U		0.00135	0.00574	1	09/19/2019 08:38	WG1348193
Styrene	U		0.00313	0.0143	1	09/19/2019 08:38	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	09/19/2019 08:38	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	09/19/2019 08:38	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000775	0.00287	1	09/19/2019 08:38	WG1348193
Tetrachloroethene	U		0.000803	0.00287	1	09/19/2019 08:38	WG1348193
Toluene	0.00875		0.00143	0.00574	1	09/19/2019 08:38	WG1348193
1,2,3-Trichlorobenzene	U		0.000717	0.00287	1	09/19/2019 08:38	WG1348193
1,2,4-Trichlorobenzene	U		0.00553	0.0143	1	09/19/2019 08:38	WG1348193
1,1,1-Trichloroethane	U		0.000316	0.00287	1	09/19/2019 08:38	WG1348193
1,1,2-Trichloroethane	U		0.00101	0.00287	1	09/19/2019 08:38	WG1348193
Trichloroethene	0.00105 J	J	0.000459	0.00115	1	09/19/2019 08:38	WG1348193
Trichlorofluoromethane	U		0.000574	0.00287	1	09/19/2019 08:38	WG1348193
1,2,3-Trichloropropane	U		0.00585	0.0143	1	09/19/2019 08:38	WG1348193
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	09/19/2019 08:38	WG1348193
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	09/19/2019 08:38	WG1348193
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	09/19/2019 08:38	WG1348193
Vinyl acetate	U		0.00404	0.0143	1	09/19/2019 08:38	WG1348193
Vinyl chloride	U		0.000784	0.00287	1	09/19/2019 08:38	WG1348193
Xylenes, Total	U		0.00549	0.00746	1	09/19/2019 08:38	WG1348193
(S) Toluene-d8	*107*			*75.0-131*		*09/19/2019 08:38*	WG1348193
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*09/19/2019 08:38*	WG1348193
(S) 1,2-Dichloroethane-d4	*93.5*			*70.0-130*		*09/19/2019 08:38*	WG1348193

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.7		1	09/19/2019 20:23	WG1349074

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0284 J	J	0.0174	0.0317	1	09/19/2019 08:59	WG1348193
Acrylonitrile	U		0.00241	0.0159	1	09/19/2019 08:59	WG1348193
Benzene	U		0.000508	0.00127	1	09/19/2019 08:59	WG1348193
Bromobenzene	U		0.00133	0.0159	1	09/19/2019 08:59	WG1348193
Bromodichloromethane	U		0.00100	0.00317	1	09/19/2019 08:59	WG1348193
Bromochloromethane	U		0.00143	0.00635	1	09/19/2019 08:59	WG1348193
Bromoform	U		0.00759	0.0317	1	09/19/2019 08:59	WG1348193
Bromomethane	U		0.00470	0.0159	1	09/19/2019 08:59	WG1348193
n-Butylbenzene	U		0.00488	0.0159	1	09/19/2019 08:59	WG1348193
sec-Butylbenzene	U		0.00321	0.0159	1	09/19/2019 08:59	WG1348193
tert-Butylbenzene	U		0.00197	0.00635	1	09/19/2019 08:59	WG1348193
Carbon disulfide	U		0.00516	0.0159	1	09/19/2019 08:59	WG1348193
Carbon tetrachloride	U		0.00137	0.00635	1	09/19/2019 08:59	WG1348193
Chlorobenzene	U		0.000728	0.00317	1	09/19/2019 08:59	WG1348193
Chlorodibromomethane	U		0.000571	0.00317	1	09/19/2019 08:59	WG1348193
Chloroethane	U		0.00137	0.00635	1	09/19/2019 08:59	WG1348193
Chloroform	U		0.000527	0.00317	1	09/19/2019 08:59	WG1348193
Chloromethane	U		0.00177	0.0159	1	09/19/2019 08:59	WG1348193
2-Chlorotoluene	U		0.00117	0.00317	1	09/19/2019 08:59	WG1348193
4-Chlorotoluene	U		0.00143	0.00635	1	09/19/2019 08:59	WG1348193
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00648	0.0317	1	09/19/2019 08:59	WG1348193
1,2-Dibromoethane	U		0.000667	0.00317	1	09/19/2019 08:59	WG1348193
Dibromomethane	U		0.00127	0.00635	1	09/19/2019 08:59	WG1348193
1,2-Dichlorobenzene	U		0.00184	0.00635	1	09/19/2019 08:59	WG1348193
1,3-Dichlorobenzene	U		0.00216	0.00635	1	09/19/2019 08:59	WG1348193
1,4-Dichlorobenzene	U		0.00250	0.00635	1	09/19/2019 08:59	WG1348193
Dichlorodifluoromethane	U		0.00104	0.00317	1	09/19/2019 08:59	WG1348193
1,1-Dichloroethane	U		0.000730	0.00317	1	09/19/2019 08:59	WG1348193
1,2-Dichloroethane	U		0.000603	0.00317	1	09/19/2019 08:59	WG1348193
1,1-Dichloroethene	U		0.000635	0.00317	1	09/19/2019 08:59	WG1348193
cis-1,2-Dichloroethene	0.00456		0.000876	0.00317	1	09/19/2019 08:59	WG1348193
trans-1,2-Dichloroethene	U		0.00182	0.00635	1	09/19/2019 08:59	WG1348193
1,2-Dichloropropane	U		0.00161	0.00635	1	09/19/2019 08:59	WG1348193
1,1-Dichloropropene	U		0.000889	0.00317	1	09/19/2019 08:59	WG1348193
1,3-Dichloropropane	U		0.00222	0.00635	1	09/19/2019 08:59	WG1348193
cis-1,3-Dichloropropene	U		0.000861	0.00317	1	09/19/2019 08:59	WG1348193
trans-1,3-Dichloropropene	U		0.00194	0.00635	1	09/19/2019 08:59	WG1348193
trans-1,4-Dichloro-2-butene	U		0.00178	0.00635	1	09/19/2019 08:59	WG1348193
2,2-Dichloropropane	U		0.00101	0.00317	1	09/19/2019 08:59	WG1348193
Di-isopropyl ether	U		0.000444	0.00127	1	09/19/2019 08:59	WG1348193
Ethylbenzene	U		0.000673	0.00317	1	09/19/2019 08:59	WG1348193
Hexachloro-1,3-butadiene	U		0.0161	0.0317	1	09/19/2019 08:59	WG1348193
2-Hexanone	U		0.0127	0.0317	1	09/19/2019 08:59	WG1348193
n-Hexane	U		0.00135	0.00635	1	09/19/2019 08:59	WG1348193
Iodomethane	U		0.00768	0.0159	1	09/19/2019 08:59	WG1348193
Isopropylbenzene	U		0.00110	0.00317	1	09/19/2019 08:59	WG1348193
p-Isopropyltoluene	U		0.00296	0.00635	1	09/19/2019 08:59	WG1348193
2-Butanone (MEK)	0.0257 U	B J	0.0159	0.0317	1	09/19/2019 08:59	WG1348193
Methylene Chloride	U		0.00843	0.0317	1	09/19/2019 08:59	WG1348193
4-Methyl-2-pentanone (MIBK)	U		0.0127	0.0317	1	09/19/2019 08:59	WG1348193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000375	0.00127	1	09/19/2019 08:59	WG1348193
Naphthalene	U		0.00396	0.0159	1	09/19/2019 08:59	WG1348193
n-Propylbenzene	U		0.00150	0.00635	1	09/19/2019 08:59	WG1348193
Styrene	U		0.00347	0.0159	1	09/19/2019 08:59	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000635	0.00317	1	09/19/2019 08:59	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000495	0.00317	1	09/19/2019 08:59	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000857	0.00317	1	09/19/2019 08:59	WG1348193
Tetrachloroethene	U		0.000889	0.00317	1	09/19/2019 08:59	WG1348193
Toluene	0.00372 J	J	0.00159	0.00635	1	09/19/2019 08:59	WG1348193
1,2,3-Trichlorobenzene	U		0.000794	0.00317	1	09/19/2019 08:59	WG1348193
1,2,4-Trichlorobenzene	U		0.00612	0.0159	1	09/19/2019 08:59	WG1348193
1,1,1-Trichloroethane	U		0.000349	0.00317	1	09/19/2019 08:59	WG1348193
1,1,2-Trichloroethane	U		0.00112	0.00317	1	09/19/2019 08:59	WG1348193
Trichloroethene	U		0.000508	0.00127	1	09/19/2019 08:59	WG1348193
Trichlorofluoromethane	U		0.000635	0.00317	1	09/19/2019 08:59	WG1348193
1,2,3-Trichloropropane	U		0.00648	0.0159	1	09/19/2019 08:59	WG1348193
1,2,4-Trimethylbenzene	U		0.00147	0.00635	1	09/19/2019 08:59	WG1348193
1,2,3-Trimethylbenzene	U		0.00146	0.00635	1	09/19/2019 08:59	WG1348193
1,3,5-Trimethylbenzene	U		0.00137	0.00635	1	09/19/2019 08:59	WG1348193
Vinyl acetate	U		0.00447	0.0159	1	09/19/2019 08:59	WG1348193
Vinyl chloride	0.00563		0.000867	0.00317	1	09/19/2019 08:59	WG1348193
Xylenes, Total	U		0.00607	0.00825	1	09/19/2019 08:59	WG1348193
(S) Toluene-d8	*108*			*75.0-131*		*09/19/2019 08:59*	WG1348193
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*09/19/2019 08:59*	WG1348193
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*09/19/2019 08:59*	WG1348193

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.4		1	09/19/2019 20:23	WG1349074

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0320		0.0170	0.0311	1	09/19/2019 09:21	WG1348193
Acrylonitrile	U		0.00236	0.0156	1	09/19/2019 09:21	WG1348193
Benzene	U		0.000498	0.00124	1	09/19/2019 09:21	WG1348193
Bromobenzene	U		0.00131	0.0156	1	09/19/2019 09:21	WG1348193
Bromodichloromethane	U		0.000980	0.00311	1	09/19/2019 09:21	WG1348193
Bromochloromethane	U		0.00141	0.00622	1	09/19/2019 09:21	WG1348193
Bromoform	U		0.00744	0.0311	1	09/19/2019 09:21	WG1348193
Bromomethane	U		0.00460	0.0156	1	09/19/2019 09:21	WG1348193
n-Butylbenzene	U		0.00478	0.0156	1	09/19/2019 09:21	WG1348193
sec-Butylbenzene	U		0.00315	0.0156	1	09/19/2019 09:21	WG1348193
tert-Butylbenzene	U		0.00193	0.00622	1	09/19/2019 09:21	WG1348193
Carbon disulfide	U		0.00505	0.0156	1	09/19/2019 09:21	WG1348193
Carbon tetrachloride	U		0.00134	0.00622	1	09/19/2019 09:21	WG1348193
Chlorobenzene	U		0.000713	0.00311	1	09/19/2019 09:21	WG1348193
Chlorodibromomethane	U		0.000560	0.00311	1	09/19/2019 09:21	WG1348193
Chloroethane	U		0.00134	0.00622	1	09/19/2019 09:21	WG1348193
Chloroform	0.000627 U	B J	0.000516	0.00311	1	09/19/2019 09:21	WG1348193
Chloromethane	U		0.00173	0.0156	1	09/19/2019 09:21	WG1348193
2-Chlorotoluene	U		0.00114	0.00311	1	09/19/2019 09:21	WG1348193
4-Chlorotoluene	U		0.00141	0.00622	1	09/19/2019 09:21	WG1348193
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00634	0.0311	1	09/19/2019 09:21	WG1348193
1,2-Dibromoethane	U		0.000653	0.00311	1	09/19/2019 09:21	WG1348193
Dibromomethane	U		0.00124	0.00622	1	09/19/2019 09:21	WG1348193
1,2-Dichlorobenzene	U		0.00180	0.00622	1	09/19/2019 09:21	WG1348193
1,3-Dichlorobenzene	U		0.00211	0.00622	1	09/19/2019 09:21	WG1348193
1,4-Dichlorobenzene	U		0.00245	0.00622	1	09/19/2019 09:21	WG1348193
Dichlorodifluoromethane	U		0.00102	0.00311	1	09/19/2019 09:21	WG1348193
1,1-Dichloroethane	U		0.000715	0.00311	1	09/19/2019 09:21	WG1348193
1,2-Dichloroethane	U		0.000591	0.00311	1	09/19/2019 09:21	WG1348193
1,1-Dichloroethene	U		0.000622	0.00311	1	09/19/2019 09:21	WG1348193
cis-1,2-Dichloroethene	0.0481		0.000858	0.00311	1	09/19/2019 09:21	WG1348193
trans-1,2-Dichloroethene	U		0.00178	0.00622	1	09/19/2019 09:21	WG1348193
1,2-Dichloropropane	U		0.00158	0.00622	1	09/19/2019 09:21	WG1348193
1,1-Dichloropropene	U		0.000871	0.00311	1	09/19/2019 09:21	WG1348193
1,3-Dichloropropane	U		0.00218	0.00622	1	09/19/2019 09:21	WG1348193
cis-1,3-Dichloropropene	U		0.000843	0.00311	1	09/19/2019 09:21	WG1348193
trans-1,3-Dichloropropene	U		0.00190	0.00622	1	09/19/2019 09:21	WG1348193
trans-1,4-Dichloro-2-butene	U		0.00174	0.00622	1	09/19/2019 09:21	WG1348193
2,2-Dichloropropane	U		0.000986	0.00311	1	09/19/2019 09:21	WG1348193
Di-isopropyl ether	U		0.000435	0.00124	1	09/19/2019 09:21	WG1348193
Ethylbenzene	U		0.000659	0.00311	1	09/19/2019 09:21	WG1348193
Hexachloro-1,3-butadiene	U		0.0158	0.0311	1	09/19/2019 09:21	WG1348193
2-Hexanone	U		0.0124	0.0311	1	09/19/2019 09:21	WG1348193
n-Hexane	U		0.00132	0.00622	1	09/19/2019 09:21	WG1348193
Iodomethane	U		0.00753	0.0156	1	09/19/2019 09:21	WG1348193
Isopropylbenzene	U		0.00107	0.00311	1	09/19/2019 09:21	WG1348193
p-Isopropyltoluene	U		0.00290	0.00622	1	09/19/2019 09:21	WG1348193
2-Butanone (MEK)	0.0244 U	B J	0.0156	0.0311	1	09/19/2019 09:21	WG1348193
Methylene Chloride	U		0.00826	0.0311	1	09/19/2019 09:21	WG1348193
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0311	1	09/19/2019 09:21	WG1348193

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000367	0.00124	1	09/19/2019 09:21	WG1348193
Naphthalene	U		0.00388	0.0156	1	09/19/2019 09:21	WG1348193
n-Propylbenzene	U		0.00147	0.00622	1	09/19/2019 09:21	WG1348193
Styrene	U		0.00340	0.0156	1	09/19/2019 09:21	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000622	0.00311	1	09/19/2019 09:21	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000485	0.00311	1	09/19/2019 09:21	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000840	0.00311	1	09/19/2019 09:21	WG1348193
Tetrachloroethene	0.0637		0.000871	0.00311	1	09/19/2019 09:21	WG1348193
Toluene	0.00696		0.00156	0.00622	1	09/19/2019 09:21	WG1348193
1,2,3-Trichlorobenzene	U		0.000778	0.00311	1	09/19/2019 09:21	WG1348193
1,2,4-Trichlorobenzene	U		0.00600	0.0156	1	09/19/2019 09:21	WG1348193
1,1,1-Trichloroethane	U		0.000342	0.00311	1	09/19/2019 09:21	WG1348193
1,1,2-Trichloroethane	U		0.00110	0.00311	1	09/19/2019 09:21	WG1348193
Trichloroethene	0.116		0.000498	0.00124	1	09/19/2019 09:21	WG1348193
Trichlorofluoromethane	U		0.000622	0.00311	1	09/19/2019 09:21	WG1348193
1,2,3-Trichloropropane	U		0.00634	0.0156	1	09/19/2019 09:21	WG1348193
1,2,4-Trimethylbenzene	U		0.00144	0.00622	1	09/19/2019 09:21	WG1348193
1,2,3-Trimethylbenzene	U		0.00143	0.00622	1	09/19/2019 09:21	WG1348193
1,3,5-Trimethylbenzene	U		0.00134	0.00622	1	09/19/2019 09:21	WG1348193
Vinyl acetate	U		0.00438	0.0156	1	09/19/2019 09:21	WG1348193
Vinyl chloride	0.00230 J	J	0.000850	0.00311	1	09/19/2019 09:21	WG1348193
Xylenes, Total	U		0.00595	0.00809	1	09/19/2019 09:21	WG1348193
(S) Toluene-d8	*105*			*75.0-131*		*09/19/2019 09:21*	WG1348193
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*09/19/2019 09:21*	WG1348193
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*09/19/2019 09:21*	WG1348193

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.2		1	09/19/2019 20:23	WG1349074

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0380		0.0147	0.0268	1	09/19/2019 09:43	WG1348193
Acrylonitrile	U		0.00204	0.0134	1	09/19/2019 09:43	WG1348193
Benzene	U		0.000429	0.00107	1	09/19/2019 09:43	WG1348193
Bromobenzene	U		0.00113	0.0134	1	09/19/2019 09:43	WG1348193
Bromodichloromethane	U		0.000845	0.00268	1	09/19/2019 09:43	WG1348193
Bromochloromethane	U		0.00121	0.00536	1	09/19/2019 09:43	WG1348193
Bromoform	U		0.00641	0.0268	1	09/19/2019 09:43	WG1348193
Bromomethane	U		0.00397	0.0134	1	09/19/2019 09:43	WG1348193
n-Butylbenzene	U		0.00412	0.0134	1	09/19/2019 09:43	WG1348193
sec-Butylbenzene	U		0.00271	0.0134	1	09/19/2019 09:43	WG1348193
tert-Butylbenzene	U		0.00166	0.00536	1	09/19/2019 09:43	WG1348193
Carbon disulfide	U		0.00436	0.0134	1	09/19/2019 09:43	WG1348193
Carbon tetrachloride	U		0.00116	0.00536	1	09/19/2019 09:43	WG1348193
Chlorobenzene	U		0.000615	0.00268	1	09/19/2019 09:43	WG1348193
Chlorodibromomethane	U		0.000483	0.00268	1	09/19/2019 09:43	WG1348193
Chloroethane	U		0.00116	0.00536	1	09/19/2019 09:43	WG1348193
Chloroform	U		0.000445	0.00268	1	09/19/2019 09:43	WG1348193
Chloromethane	U		0.00149	0.0134	1	09/19/2019 09:43	WG1348193
2-Chlorotoluene	U		0.000987	0.00268	1	09/19/2019 09:43	WG1348193
4-Chlorotoluene	U		0.00121	0.00536	1	09/19/2019 09:43	WG1348193
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00547	0.0268	1	09/19/2019 09:43	WG1348193
1,2-Dibromoethane	U		0.000563	0.00268	1	09/19/2019 09:43	WG1348193
Dibromomethane	U		0.00107	0.00536	1	09/19/2019 09:43	WG1348193
1,2-Dichlorobenzene	U		0.00156	0.00536	1	09/19/2019 09:43	WG1348193
1,3-Dichlorobenzene	U		0.00182	0.00536	1	09/19/2019 09:43	WG1348193
1,4-Dichlorobenzene	U		0.00211	0.00536	1	09/19/2019 09:43	WG1348193
Dichlorodifluoromethane	U		0.000877	0.00268	1	09/19/2019 09:43	WG1348193
1,1-Dichloroethane	U		0.000617	0.00268	1	09/19/2019 09:43	WG1348193
1,2-Dichloroethane	U		0.000510	0.00268	1	09/19/2019 09:43	WG1348193
1,1-Dichloroethene	U		0.000536	0.00268	1	09/19/2019 09:43	WG1348193
cis-1,2-Dichloroethene	0.776		0.000740	0.00268	1	09/19/2019 09:43	WG1348193
trans-1,2-Dichloroethene	0.00420	J J	0.00153	0.00536	1	09/19/2019 09:43	WG1348193
1,2-Dichloropropane	U		0.00136	0.00536	1	09/19/2019 09:43	WG1348193
1,1-Dichloropropene	U		0.000751	0.00268	1	09/19/2019 09:43	WG1348193
1,3-Dichloropropane	U		0.00188	0.00536	1	09/19/2019 09:43	WG1348193
cis-1,3-Dichloropropene	U		0.000727	0.00268	1	09/19/2019 09:43	WG1348193
trans-1,3-Dichloropropene	U		0.00164	0.00536	1	09/19/2019 09:43	WG1348193
trans-1,4-Dichloro-2-butene	U		0.00150	0.00536	1	09/19/2019 09:43	WG1348193
2,2-Dichloropropane	U		0.000851	0.00268	1	09/19/2019 09:43	WG1348193
Di-isopropyl ether	U		0.000375	0.00107	1	09/19/2019 09:43	WG1348193
Ethylbenzene	U		0.000569	0.00268	1	09/19/2019 09:43	WG1348193
Hexachloro-1,3-butadiene	U		0.0136	0.0268	1	09/19/2019 09:43	WG1348193
2-Hexanone	U		0.0107	0.0268	1	09/19/2019 09:43	WG1348193
n-Hexane	U		0.00114	0.00536	1	09/19/2019 09:43	WG1348193
Iodomethane	U		0.00649	0.0134	1	09/19/2019 09:43	WG1348193
Isopropylbenzene	U		0.000926	0.00268	1	09/19/2019 09:43	WG1348193
p-Isopropyltoluene	U		0.00250	0.00536	1	09/19/2019 09:43	WG1348193
2-Butanone (MEK)	0.0203	U B J	0.0134	0.0268	1	09/19/2019 09:43	WG1348193
Methylene Chloride	0.00784	J J	0.00712	0.0268	1	09/19/2019 09:43	WG1348193
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0268	1	09/19/2019 09:43	WG1348193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000316	0.00107	1	09/19/2019 09:43	WG1348193
Naphthalene	U		0.00335	0.0134	1	09/19/2019 09:43	WG1348193
n-Propylbenzene	U		0.00127	0.00536	1	09/19/2019 09:43	WG1348193
Styrene	U		0.00293	0.0134	1	09/19/2019 09:43	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000536	0.00268	1	09/19/2019 09:43	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000418	0.00268	1	09/19/2019 09:43	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000724	0.00268	1	09/19/2019 09:43	WG1348193
Tetrachloroethene	1.14		0.000751	0.00268	1	09/19/2019 09:43	WG1348193
Toluene	0.0118		0.00134	0.00536	1	09/19/2019 09:43	WG1348193
1,2,3-Trichlorobenzene	U		0.000670	0.00268	1	09/19/2019 09:43	WG1348193
1,2,4-Trichlorobenzene	U		0.00517	0.0134	1	09/19/2019 09:43	WG1348193
1,1,1-Trichloroethane	U		0.000295	0.00268	1	09/19/2019 09:43	WG1348193
1,1,2-Trichloroethane	U		0.000947	0.00268	1	09/19/2019 09:43	WG1348193
Trichloroethene	0.449		0.000429	0.00107	1	09/19/2019 09:43	WG1348193
Trichlorofluoromethane	U		0.000536	0.00268	1	09/19/2019 09:43	WG1348193
1,2,3-Trichloropropane	U		0.00547	0.0134	1	09/19/2019 09:43	WG1348193
1,2,4-Trimethylbenzene	U		0.00124	0.00536	1	09/19/2019 09:43	WG1348193
1,2,3-Trimethylbenzene	U		0.00123	0.00536	1	09/19/2019 09:43	WG1348193
1,3,5-Trimethylbenzene	U		0.00116	0.00536	1	09/19/2019 09:43	WG1348193
Vinyl acetate	U		0.00378	0.0134	1	09/19/2019 09:43	WG1348193
Vinyl chloride	0.0238		0.000733	0.00268	1	09/19/2019 09:43	WG1348193
Xylenes, Total	U		0.00513	0.00697	1	09/19/2019 09:43	WG1348193
(S) Toluene-d8	*106*			*75.0-131*		*09/19/2019 09:43*	WG1348193
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*09/19/2019 09:43*	WG1348193
(S) 1,2-Dichloroethane-d4	*94.3*			*70.0-130*		*09/19/2019 09:43*	WG1348193

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.6		1	09/19/2019 20:23	WG1349074

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0401		0.0152	0.0279	1.01	09/19/2019 10:05	WG1348193
Acrylonitrile	U		0.00212	0.0139	1.01	09/19/2019 10:05	WG1348193
Benzene	U		0.000446	0.00111	1.01	09/19/2019 10:05	WG1348193
Bromobenzene	U		0.00117	0.0139	1.01	09/19/2019 10:05	WG1348193
Bromodichloromethane	U		0.000879	0.00279	1.01	09/19/2019 10:05	WG1348193
Bromochloromethane	U		0.00126	0.00557	1.01	09/19/2019 10:05	WG1348193
Bromoform	U		0.00667	0.0279	1.01	09/19/2019 10:05	WG1348193
Bromomethane	U		0.00413	0.0139	1.01	09/19/2019 10:05	WG1348193
n-Butylbenzene	U		0.00428	0.0139	1.01	09/19/2019 10:05	WG1348193
sec-Butylbenzene	U		0.00283	0.0139	1.01	09/19/2019 10:05	WG1348193
tert-Butylbenzene	U		0.00172	0.00557	1.01	09/19/2019 10:05	WG1348193
Carbon disulfide	U		0.00453	0.0139	1.01	09/19/2019 10:05	WG1348193
Carbon tetrachloride	U		0.00120	0.00557	1.01	09/19/2019 10:05	WG1348193
Chlorobenzene	U		0.000639	0.00279	1.01	09/19/2019 10:05	WG1348193
Chlorodibromomethane	U		0.000501	0.00279	1.01	09/19/2019 10:05	WG1348193
Chloroethane	U		0.00120	0.00557	1.01	09/19/2019 10:05	WG1348193
Chloroform	U		0.000463	0.00279	1.01	09/19/2019 10:05	WG1348193
Chloromethane	U		0.00155	0.0139	1.01	09/19/2019 10:05	WG1348193
2-Chlorotoluene	U		0.00103	0.00279	1.01	09/19/2019 10:05	WG1348193
4-Chlorotoluene	U		0.00126	0.00557	1.01	09/19/2019 10:05	WG1348193
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00569	0.0279	1.01	09/19/2019 10:05	WG1348193
1,2-Dibromoethane	U		0.000585	0.00279	1.01	09/19/2019 10:05	WG1348193
Dibromomethane	U		0.00111	0.00557	1.01	09/19/2019 10:05	WG1348193
1,2-Dichlorobenzene	U		0.00161	0.00557	1.01	09/19/2019 10:05	WG1348193
1,3-Dichlorobenzene	U		0.00190	0.00557	1.01	09/19/2019 10:05	WG1348193
1,4-Dichlorobenzene	U		0.00220	0.00557	1.01	09/19/2019 10:05	WG1348193
Dichlorodifluoromethane	U		0.000912	0.00279	1.01	09/19/2019 10:05	WG1348193
1,1-Dichloroethane	U		0.000641	0.00279	1.01	09/19/2019 10:05	WG1348193
1,2-Dichloroethane	U		0.000530	0.00279	1.01	09/19/2019 10:05	WG1348193
1,1-Dichloroethene	0.00566		0.000557	0.00279	1.01	09/19/2019 10:05	WG1348193
cis-1,2-Dichloroethene	2.55		0.000769	0.00279	1.01	09/19/2019 10:05	WG1348193
trans-1,2-Dichloroethene	0.00469	J J	0.00159	0.00557	1.01	09/19/2019 10:05	WG1348193
1,2-Dichloropropane	U		0.00141	0.00557	1.01	09/19/2019 10:05	WG1348193
1,1-Dichloropropene	U		0.000780	0.00279	1.01	09/19/2019 10:05	WG1348193
1,3-Dichloropropane	U		0.00195	0.00557	1.01	09/19/2019 10:05	WG1348193
cis-1,3-Dichloropropene	U		0.000756	0.00279	1.01	09/19/2019 10:05	WG1348193
trans-1,3-Dichloropropene	U		0.00170	0.00557	1.01	09/19/2019 10:05	WG1348193
trans-1,4-Dichloro-2-butene	U		0.00156	0.00557	1.01	09/19/2019 10:05	WG1348193
2,2-Dichloropropane	U		0.000884	0.00279	1.01	09/19/2019 10:05	WG1348193
Di-isopropyl ether	U		0.000391	0.00111	1.01	09/19/2019 10:05	WG1348193
Ethylbenzene	U		0.000591	0.00279	1.01	09/19/2019 10:05	WG1348193
Hexachloro-1,3-butadiene	U		0.0141	0.0279	1.01	09/19/2019 10:05	WG1348193
2-Hexanone	U		0.0111	0.0279	1.01	09/19/2019 10:05	WG1348193
n-Hexane	U		0.00118	0.00557	1.01	09/19/2019 10:05	WG1348193
Iodomethane	U		0.00674	0.0139	1.01	09/19/2019 10:05	WG1348193
Isopropylbenzene	U		0.000963	0.00279	1.01	09/19/2019 10:05	WG1348193
p-Isopropyltoluene	U		0.00259	0.00557	1.01	09/19/2019 10:05	WG1348193
2-Butanone (MEK)	0.0311	B	0.0139	0.0279	1.01	09/19/2019 10:05	WG1348193
Methylene Chloride	U		0.00741	0.0279	1.01	09/19/2019 10:05	WG1348193
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0279	1.01	09/19/2019 10:05	WG1348193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00111	1.01	09/19/2019 10:05	WG1348193
Naphthalene	U		0.00348	0.0139	1.01	09/19/2019 10:05	WG1348193
n-Propylbenzene	U		0.00131	0.00557	1.01	09/19/2019 10:05	WG1348193
Styrene	U		0.00305	0.0139	1.01	09/19/2019 10:05	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000557	0.00279	1.01	09/19/2019 10:05	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1.01	09/19/2019 10:05	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000753	0.00279	1.01	09/19/2019 10:05	WG1348193
Tetrachloroethene	0.0258		0.000780	0.00279	1.01	09/19/2019 10:05	WG1348193
Toluene	0.00627		0.00139	0.00557	1.01	09/19/2019 10:05	WG1348193
1,2,3-Trichlorobenzene	U		0.000697	0.00279	1.01	09/19/2019 10:05	WG1348193
1,2,4-Trichlorobenzene	U		0.00538	0.0139	1.01	09/19/2019 10:05	WG1348193
1,1,1-Trichloroethane	U		0.000307	0.00279	1.01	09/19/2019 10:05	WG1348193
1,1,2-Trichloroethane	U		0.000985	0.00279	1.01	09/19/2019 10:05	WG1348193
Trichloroethene	0.199		0.000446	0.00111	1.01	09/19/2019 10:05	WG1348193
Trichlorofluoromethane	U		0.000557	0.00279	1.01	09/19/2019 10:05	WG1348193
1,2,3-Trichloropropane	U		0.00569	0.0139	1.01	09/19/2019 10:05	WG1348193
1,2,4-Trimethylbenzene	U		0.00129	0.00557	1.01	09/19/2019 10:05	WG1348193
1,2,3-Trimethylbenzene	U		0.00128	0.00557	1.01	09/19/2019 10:05	WG1348193
1,3,5-Trimethylbenzene	U		0.00120	0.00557	1.01	09/19/2019 10:05	WG1348193
Vinyl acetate	U		0.00393	0.0139	1.01	09/19/2019 10:05	WG1348193
Vinyl chloride	0.0515		0.000762	0.00279	1.01	09/19/2019 10:05	WG1348193
Xylenes, Total	U		0.00533	0.00725	1.01	09/19/2019 10:05	WG1348193
(S) Toluene-d8	*109*			*75.0-131*		*09/19/2019 10:05*	WG1348193
(S) 4-Bromofluorobenzene	*99.3*			*67.0-138*		*09/19/2019 10:05*	WG1348193
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*09/19/2019 10:05*	WG1348193

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.3		1	09/19/2019 20:23	WG1349074

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0406			0.0152	0.0277	1	09/19/2019 11:54	WG1348193
Acrylonitrile	U			0.00210	0.0138	1	09/19/2019 11:54	WG1348193
Benzene	0.000799	J	J	0.000443	0.00111	1	09/19/2019 11:54	WG1348193
Bromobenzene	U			0.00116	0.0138	1	09/19/2019 11:54	WG1348193
Bromodichloromethane	U			0.000872	0.00277	1	09/19/2019 11:54	WG1348193
Bromochloromethane	U			0.00125	0.00553	1	09/19/2019 11:54	WG1348193
Bromoform	U			0.00662	0.0277	1	09/19/2019 11:54	WG1348193
Bromomethane	U			0.00410	0.0138	1	09/19/2019 11:54	WG1348193
n-Butylbenzene	U			0.00425	0.0138	1	09/19/2019 11:54	WG1348193
sec-Butylbenzene	U			0.00280	0.0138	1	09/19/2019 11:54	WG1348193
tert-Butylbenzene	U			0.00172	0.00553	1	09/19/2019 11:54	WG1348193
Carbon disulfide	U			0.00449	0.0138	1	09/19/2019 11:54	WG1348193
Carbon tetrachloride	U			0.00120	0.00553	1	09/19/2019 11:54	WG1348193
Chlorobenzene	U			0.000634	0.00277	1	09/19/2019 11:54	WG1348193
Chlorodibromomethane	U			0.000498	0.00277	1	09/19/2019 11:54	WG1348193
Chloroethane	U			0.00120	0.00553	1	09/19/2019 11:54	WG1348193
Chloroform	U			0.000459	0.00277	1	09/19/2019 11:54	WG1348193
Chloromethane	U			0.00154	0.0138	1	09/19/2019 11:54	WG1348193
2-Chlorotoluene	U			0.00102	0.00277	1	09/19/2019 11:54	WG1348193
4-Chlorotoluene	U			0.00125	0.00553	1	09/19/2019 11:54	WG1348193
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00564	0.0277	1	09/19/2019 11:54	WG1348193
1,2-Dibromoethane	U			0.000581	0.00277	1	09/19/2019 11:54	WG1348193
Dibromomethane	U			0.00111	0.00553	1	09/19/2019 11:54	WG1348193
1,2-Dichlorobenzene	U			0.00160	0.00553	1	09/19/2019 11:54	WG1348193
1,3-Dichlorobenzene	U			0.00188	0.00553	1	09/19/2019 11:54	WG1348193
1,4-Dichlorobenzene	U			0.00218	0.00553	1	09/19/2019 11:54	WG1348193
Dichlorodifluoromethane	U			0.000905	0.00277	1	09/19/2019 11:54	WG1348193
1,1-Dichloroethane	U			0.000636	0.00277	1	09/19/2019 11:54	WG1348193
1,2-Dichloroethane	U			0.000526	0.00277	1	09/19/2019 11:54	WG1348193
1,1-Dichloroethene	U			0.000553	0.00277	1	09/19/2019 11:54	WG1348193
cis-1,2-Dichloroethene	0.00457			0.000764	0.00277	1	09/19/2019 11:54	WG1348193
trans-1,2-Dichloroethene	U			0.00158	0.00553	1	09/19/2019 11:54	WG1348193
1,2-Dichloropropane	U			0.00141	0.00553	1	09/19/2019 11:54	WG1348193
1,1-Dichloropropene	U			0.000775	0.00277	1	09/19/2019 11:54	WG1348193
1,3-Dichloropropane	U			0.00194	0.00553	1	09/19/2019 11:54	WG1348193
cis-1,3-Dichloropropene	U			0.000750	0.00277	1	09/19/2019 11:54	WG1348193
trans-1,3-Dichloropropene	U			0.00169	0.00553	1	09/19/2019 11:54	WG1348193
trans-1,4-Dichloro-2-butene	U			0.00155	0.00553	1	09/19/2019 11:54	WG1348193
2,2-Dichloropropane	U			0.000878	0.00277	1	09/19/2019 11:54	WG1348193
Di-isopropyl ether	U			0.000387	0.00111	1	09/19/2019 11:54	WG1348193
Ethylbenzene	U			0.000587	0.00277	1	09/19/2019 11:54	WG1348193
Hexachloro-1,3-butadiene	U			0.0141	0.0277	1	09/19/2019 11:54	WG1348193
2-Hexanone	U			0.0111	0.0277	1	09/19/2019 11:54	WG1348193
n-Hexane	U			0.00117	0.00553	1	09/19/2019 11:54	WG1348193
Iodomethane	U			0.00670	0.0138	1	09/19/2019 11:54	WG1348193
Isopropylbenzene	U			0.000955	0.00277	1	09/19/2019 11:54	WG1348193
p-Isopropyltoluene	U			0.00258	0.00553	1	09/19/2019 11:54	WG1348193
2-Butanone (MEK)	0.0187	U	B J	0.0138	0.0277	1	09/19/2019 11:54	WG1348193
Methylene Chloride	U			0.00735	0.0277	1	09/19/2019 11:54	WG1348193
4-Methyl-2-pentanone (MIBK)	U			0.0111	0.0277	1	09/19/2019 11:54	WG1348193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	09/19/2019 11:54	WG1348193
Naphthalene	U		0.00345	0.0138	1	09/19/2019 11:54	WG1348193
n-Propylbenzene	U		0.00131	0.00553	1	09/19/2019 11:54	WG1348193
Styrene	U		0.00302	0.0138	1	09/19/2019 11:54	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000553	0.00277	1	09/19/2019 11:54	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	09/19/2019 11:54	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000747	0.00277	1	09/19/2019 11:54	WG1348193
Tetrachloroethene	0.00151	J J	0.000775	0.00277	1	09/19/2019 11:54	WG1348193
Toluene	0.00815		0.00138	0.00553	1	09/19/2019 11:54	WG1348193
1,2,3-Trichlorobenzene	U		0.000692	0.00277	1	09/19/2019 11:54	WG1348193
1,2,4-Trichlorobenzene	U		0.00533	0.0138	1	09/19/2019 11:54	WG1348193
1,1,1-Trichloroethane	U		0.000304	0.00277	1	09/19/2019 11:54	WG1348193
1,1,2-Trichloroethane	U		0.000977	0.00277	1	09/19/2019 11:54	WG1348193
Trichloroethene	0.00106	J J	0.000443	0.00111	1	09/19/2019 11:54	WG1348193
Trichlorofluoromethane	U		0.000553	0.00277	1	09/19/2019 11:54	WG1348193
1,2,3-Trichloropropane	U		0.00564	0.0138	1	09/19/2019 11:54	WG1348193
1,2,4-Trimethylbenzene	U		0.00128	0.00553	1	09/19/2019 11:54	WG1348193
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	09/19/2019 11:54	WG1348193
1,3,5-Trimethylbenzene	U		0.00120	0.00553	1	09/19/2019 11:54	WG1348193
Vinyl acetate	U		0.00390	0.0138	1	09/19/2019 11:54	WG1348193
Vinyl chloride	0.00391		0.000756	0.00277	1	09/19/2019 11:54	WG1348193
Xylenes, Total	U		0.00529	0.00719	1	09/19/2019 11:54	WG1348193
(S) Toluene-d8	*106*			*75.0-131*		*09/19/2019 11:54*	WG1348193
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*09/19/2019 11:54*	WG1348193
(S) 1,2-Dichloroethane-d4	*95.5*			*70.0-130*		*09/19/2019 11:54*	WG1348193

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.8		1	09/19/2019 20:45	WG1349075

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0353		0.0153	0.0278	1	09/19/2019 12:16	WG1348193
Acrylonitrile	U		0.00212	0.0139	1	09/19/2019 12:16	WG1348193
Benzene	U		0.000445	0.00111	1	09/19/2019 12:16	WG1348193
Bromobenzene	U		0.00117	0.0139	1	09/19/2019 12:16	WG1348193
Bromodichloromethane	U		0.000877	0.00278	1	09/19/2019 12:16	WG1348193
Bromochloromethane	U		0.00126	0.00557	1	09/19/2019 12:16	WG1348193
Bromoform	U		0.00666	0.0278	1	09/19/2019 12:16	WG1348193
Bromomethane	U		0.00412	0.0139	1	09/19/2019 12:16	WG1348193
n-Butylbenzene	U		0.00428	0.0139	1	09/19/2019 12:16	WG1348193
sec-Butylbenzene	U		0.00282	0.0139	1	09/19/2019 12:16	WG1348193
tert-Butylbenzene	U		0.00173	0.00557	1	09/19/2019 12:16	WG1348193
Carbon disulfide	U		0.00452	0.0139	1	09/19/2019 12:16	WG1348193
Carbon tetrachloride	U		0.00120	0.00557	1	09/19/2019 12:16	WG1348193
Chlorobenzene	U		0.000638	0.00278	1	09/19/2019 12:16	WG1348193
Chlorodibromomethane	U		0.000501	0.00278	1	09/19/2019 12:16	WG1348193
Chloroethane	U		0.00120	0.00557	1	09/19/2019 12:16	WG1348193
Chloroform	0.000505 U	B J	0.000462	0.00278	1	09/19/2019 12:16	WG1348193
Chloromethane	U		0.00155	0.0139	1	09/19/2019 12:16	WG1348193
2-Chlorotoluene	U		0.00102	0.00278	1	09/19/2019 12:16	WG1348193
4-Chlorotoluene	U		0.00126	0.00557	1	09/19/2019 12:16	WG1348193
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00568	0.0278	1	09/19/2019 12:16	WG1348193
1,2-Dibromoethane	U		0.000584	0.00278	1	09/19/2019 12:16	WG1348193
Dibromomethane	U		0.00111	0.00557	1	09/19/2019 12:16	WG1348193
1,2-Dichlorobenzene	U		0.00161	0.00557	1	09/19/2019 12:16	WG1348193
1,3-Dichlorobenzene	U		0.00189	0.00557	1	09/19/2019 12:16	WG1348193
1,4-Dichlorobenzene	U		0.00219	0.00557	1	09/19/2019 12:16	WG1348193
Dichlorodifluoromethane	U		0.000911	0.00278	1	09/19/2019 12:16	WG1348193
1,1-Dichloroethane	U		0.000640	0.00278	1	09/19/2019 12:16	WG1348193
1,2-Dichloroethane	U		0.000529	0.00278	1	09/19/2019 12:16	WG1348193
1,1-Dichloroethene	U		0.000557	0.00278	1	09/19/2019 12:16	WG1348193
cis-1,2-Dichloroethene	0.313		0.000768	0.00278	1	09/19/2019 12:16	WG1348193
trans-1,2-Dichloroethene	U		0.00159	0.00557	1	09/19/2019 12:16	WG1348193
1,2-Dichloropropane	U		0.00141	0.00557	1	09/19/2019 12:16	WG1348193
1,1-Dichloropropene	U		0.000779	0.00278	1	09/19/2019 12:16	WG1348193
1,3-Dichloropropane	U		0.00195	0.00557	1	09/19/2019 12:16	WG1348193
cis-1,3-Dichloropropene	U		0.000755	0.00278	1	09/19/2019 12:16	WG1348193
trans-1,3-Dichloropropene	U		0.00170	0.00557	1	09/19/2019 12:16	WG1348193
trans-1,4-Dichloro-2-butene	U		0.00156	0.00557	1	09/19/2019 12:16	WG1348193
2,2-Dichloropropane	U		0.000883	0.00278	1	09/19/2019 12:16	WG1348193
Di-isopropyl ether	U		0.000390	0.00111	1	09/19/2019 12:16	WG1348193
Ethylbenzene	U		0.000590	0.00278	1	09/19/2019 12:16	WG1348193
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	09/19/2019 12:16	WG1348193
2-Hexanone	U		0.0111	0.0278	1	09/19/2019 12:16	WG1348193
n-Hexane	U		0.00118	0.00557	1	09/19/2019 12:16	WG1348193
Iodomethane	U		0.00674	0.0139	1	09/19/2019 12:16	WG1348193
Isopropylbenzene	U		0.000961	0.00278	1	09/19/2019 12:16	WG1348193
p-Isopropyltoluene	U		0.00259	0.00557	1	09/19/2019 12:16	WG1348193
2-Butanone (MEK)	0.0173 U	B J	0.0139	0.0278	1	09/19/2019 12:16	WG1348193
Methylene Chloride	U		0.00739	0.0278	1	09/19/2019 12:16	WG1348193
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	09/19/2019 12:16	WG1348193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000328	0.00111	1	09/19/2019 12:16	WG1348193
Naphthalene	U		0.00347	0.0139	1	09/19/2019 12:16	WG1348193
n-Propylbenzene	U		0.00131	0.00557	1	09/19/2019 12:16	WG1348193
Styrene	U		0.00304	0.0139	1	09/19/2019 12:16	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000557	0.00278	1	09/19/2019 12:16	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	09/19/2019 12:16	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000751	0.00278	1	09/19/2019 12:16	WG1348193
Tetrachloroethene	U		0.000779	0.00278	1	09/19/2019 12:16	WG1348193
Toluene	0.00713		0.00139	0.00557	1	09/19/2019 12:16	WG1348193
1,2,3-Trichlorobenzene	U		0.000696	0.00278	1	09/19/2019 12:16	WG1348193
1,2,4-Trichlorobenzene	U		0.00537	0.0139	1	09/19/2019 12:16	WG1348193
1,1,1-Trichloroethane	U		0.000306	0.00278	1	09/19/2019 12:16	WG1348193
1,1,2-Trichloroethane	U		0.000983	0.00278	1	09/19/2019 12:16	WG1348193
Trichloroethene	U		0.000445	0.00111	1	09/19/2019 12:16	WG1348193
Trichlorofluoromethane	U		0.000557	0.00278	1	09/19/2019 12:16	WG1348193
1,2,3-Trichloropropane	U		0.00568	0.0139	1	09/19/2019 12:16	WG1348193
1,2,4-Trimethylbenzene	U		0.00129	0.00557	1	09/19/2019 12:16	WG1348193
1,2,3-Trimethylbenzene	U		0.00128	0.00557	1	09/19/2019 12:16	WG1348193
1,3,5-Trimethylbenzene	U		0.00120	0.00557	1	09/19/2019 12:16	WG1348193
Vinyl acetate	U		0.00392	0.0139	1	09/19/2019 12:16	WG1348193
Vinyl chloride	U		0.000760	0.00278	1	09/19/2019 12:16	WG1348193
Xylenes, Total	U		0.00532	0.00724	1	09/19/2019 12:16	WG1348193
(S) Toluene-d8	*108*			*75.0-131*		*09/19/2019 12:16*	WG1348193
(S) 4-Bromofluorobenzene	*96.4*			*67.0-138*		*09/19/2019 12:16*	WG1348193
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*09/19/2019 12:16*	WG1348193

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.8		1	09/19/2019 20:45	WG1349075

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0283	J	0.0165	0.0302	1	09/19/2019 12:59	WG1348193
Acrylonitrile	U		0.00229	0.0151	1	09/19/2019 12:59	WG1348193
Benzene	U		0.000483	0.00121	1	09/19/2019 12:59	WG1348193
Bromobenzene	U		0.00127	0.0151	1	09/19/2019 12:59	WG1348193
Bromodichloromethane	U		0.000951	0.00302	1	09/19/2019 12:59	WG1348193
Bromochloromethane	U		0.00136	0.00604	1	09/19/2019 12:59	WG1348193
Bromoform	U		0.00722	0.0302	1	09/19/2019 12:59	WG1348193
Bromomethane	U		0.00447	0.0151	1	09/19/2019 12:59	WG1348193
n-Butylbenzene	U		0.00464	0.0151	1	09/19/2019 12:59	WG1348193
sec-Butylbenzene	U		0.00305	0.0151	1	09/19/2019 12:59	WG1348193
tert-Butylbenzene	U		0.00187	0.00604	1	09/19/2019 12:59	WG1348193
Carbon disulfide	U		0.00490	0.0151	1	09/19/2019 12:59	WG1348193
Carbon tetrachloride	U		0.00130	0.00604	1	09/19/2019 12:59	WG1348193
Chlorobenzene	U		0.000692	0.00302	1	09/19/2019 12:59	WG1348193
Chlorodibromomethane	U		0.000543	0.00302	1	09/19/2019 12:59	WG1348193
Chloroethane	U		0.00130	0.00604	1	09/19/2019 12:59	WG1348193
Chloroform	U		0.000501	0.00302	1	09/19/2019 12:59	WG1348193
Chloromethane	U		0.00168	0.0151	1	09/19/2019 12:59	WG1348193
2-Chlorotoluene	U		0.00111	0.00302	1	09/19/2019 12:59	WG1348193
4-Chlorotoluene	U		0.00136	0.00604	1	09/19/2019 12:59	WG1348193
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00616	0.0302	1	09/19/2019 12:59	WG1348193
1,2-Dibromoethane	U		0.000634	0.00302	1	09/19/2019 12:59	WG1348193
Dibromomethane	U		0.00121	0.00604	1	09/19/2019 12:59	WG1348193
1,2-Dichlorobenzene	U		0.00175	0.00604	1	09/19/2019 12:59	WG1348193
1,3-Dichlorobenzene	U		0.00205	0.00604	1	09/19/2019 12:59	WG1348193
1,4-Dichlorobenzene	U		0.00238	0.00604	1	09/19/2019 12:59	WG1348193
Dichlorodifluoromethane	U		0.000988	0.00302	1	09/19/2019 12:59	WG1348193
1,1-Dichloroethane	U		0.000694	0.00302	1	09/19/2019 12:59	WG1348193
1,2-Dichloroethane	U		0.000574	0.00302	1	09/19/2019 12:59	WG1348193
1,1-Dichloroethene	U		0.000604	0.00302	1	09/19/2019 12:59	WG1348193
cis-1,2-Dichloroethene	0.406		0.000833	0.00302	1	09/19/2019 12:59	WG1348193
trans-1,2-Dichloroethene	U		0.00173	0.00604	1	09/19/2019 12:59	WG1348193
1,2-Dichloropropane	U		0.00153	0.00604	1	09/19/2019 12:59	WG1348193
1,1-Dichloropropene	U		0.000845	0.00302	1	09/19/2019 12:59	WG1348193
1,3-Dichloropropane	U		0.00211	0.00604	1	09/19/2019 12:59	WG1348193
cis-1,3-Dichloropropene	U		0.000819	0.00302	1	09/19/2019 12:59	WG1348193
trans-1,3-Dichloropropene	U		0.00185	0.00604	1	09/19/2019 12:59	WG1348193
trans-1,4-Dichloro-2-butene	U		0.00169	0.00604	1	09/19/2019 12:59	WG1348193
2,2-Dichloropropane	U		0.000957	0.00302	1	09/19/2019 12:59	WG1348193
Di-isopropyl ether	U		0.000423	0.00121	1	09/19/2019 12:59	WG1348193
Ethylbenzene	U		0.000640	0.00302	1	09/19/2019 12:59	WG1348193
Hexachloro-1,3-butadiene	U		0.0153	0.0302	1	09/19/2019 12:59	WG1348193
2-Hexanone	U		0.0121	0.0302	1	09/19/2019 12:59	WG1348193
n-Hexane	U		0.00128	0.00604	1	09/19/2019 12:59	WG1348193
Iodomethane	U		0.00730	0.0151	1	09/19/2019 12:59	WG1348193
Isopropylbenzene	U		0.00104	0.00302	1	09/19/2019 12:59	WG1348193
p-Isopropyltoluene	U		0.00281	0.00604	1	09/19/2019 12:59	WG1348193
2-Butanone (MEK)	0.0189 U	B J	0.0151	0.0302	1	09/19/2019 12:59	WG1348193
Methylene Chloride	U		0.00802	0.0302	1	09/19/2019 12:59	WG1348193
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0302	1	09/19/2019 12:59	WG1348193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000356	0.00121	1	09/19/2019 12:59	WG1348193
Naphthalene	U		0.00377	0.0151	1	09/19/2019 12:59	WG1348193
n-Propylbenzene	U		0.00142	0.00604	1	09/19/2019 12:59	WG1348193
Styrene	U		0.00330	0.0151	1	09/19/2019 12:59	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000604	0.00302	1	09/19/2019 12:59	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000471	0.00302	1	09/19/2019 12:59	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000815	0.00302	1	09/19/2019 12:59	WG1348193
Tetrachloroethene	U		0.000845	0.00302	1	09/19/2019 12:59	WG1348193
Toluene	0.00644		0.00151	0.00604	1	09/19/2019 12:59	WG1348193
1,2,3-Trichlorobenzene	U		0.000755	0.00302	1	09/19/2019 12:59	WG1348193
1,2,4-Trichlorobenzene	U		0.00582	0.0151	1	09/19/2019 12:59	WG1348193
1,1,1-Trichloroethane	U		0.000332	0.00302	1	09/19/2019 12:59	WG1348193
1,1,2-Trichloroethane	U		0.00107	0.00302	1	09/19/2019 12:59	WG1348193
Trichloroethene	U		0.000483	0.00121	1	09/19/2019 12:59	WG1348193
Trichlorofluoromethane	U		0.000604	0.00302	1	09/19/2019 12:59	WG1348193
1,2,3-Trichloropropane	U		0.00616	0.0151	1	09/19/2019 12:59	WG1348193
1,2,4-Trimethylbenzene	U		0.00140	0.00604	1	09/19/2019 12:59	WG1348193
1,2,3-Trimethylbenzene	U		0.00139	0.00604	1	09/19/2019 12:59	WG1348193
1,3,5-Trimethylbenzene	U		0.00130	0.00604	1	09/19/2019 12:59	WG1348193
Vinyl acetate	U		0.00425	0.0151	1	09/19/2019 12:59	WG1348193
Vinyl chloride	0.0756		0.000825	0.00302	1	09/19/2019 12:59	WG1348193
Xylenes, Total	U		0.00577	0.00785	1	09/19/2019 12:59	WG1348193
(S) Toluene-d8	*107*			*75.0-131*		*09/19/2019 12:59*	WG1348193
(S) 4-Bromofluorobenzene	*98.3*			*67.0-138*		*09/19/2019 12:59*	WG1348193
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*09/19/2019 12:59*	WG1348193

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.4		1	09/19/2019 20:45	WG1349075

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0305		0.0152	0.0277	1	09/19/2019 13:21	WG1348193
Acrylonitrile	U		0.00210	0.0138	1	09/19/2019 13:21	WG1348193
Benzene	U		0.000442	0.00111	1	09/19/2019 13:21	WG1348193
Bromobenzene	U		0.00116	0.0138	1	09/19/2019 13:21	WG1348193
Bromodichloromethane	U		0.000872	0.00277	1	09/19/2019 13:21	WG1348193
Bromochloromethane	U		0.00125	0.00553	1	09/19/2019 13:21	WG1348193
Bromoform	U		0.00661	0.0277	1	09/19/2019 13:21	WG1348193
Bromomethane	U		0.00409	0.0138	1	09/19/2019 13:21	WG1348193
n-Butylbenzene	U		0.00425	0.0138	1	09/19/2019 13:21	WG1348193
sec-Butylbenzene	U		0.00280	0.0138	1	09/19/2019 13:21	WG1348193
tert-Butylbenzene	U		0.00171	0.00553	1	09/19/2019 13:21	WG1348193
Carbon disulfide	U		0.00449	0.0138	1	09/19/2019 13:21	WG1348193
Carbon tetrachloride	U		0.00119	0.00553	1	09/19/2019 13:21	WG1348193
Chlorobenzene	U		0.000634	0.00277	1	09/19/2019 13:21	WG1348193
Chlorodibromomethane	U		0.000498	0.00277	1	09/19/2019 13:21	WG1348193
Chloroethane	U		0.00119	0.00553	1	09/19/2019 13:21	WG1348193
Chloroform	U		0.000459	0.00277	1	09/19/2019 13:21	WG1348193
Chloromethane	U		0.00154	0.0138	1	09/19/2019 13:21	WG1348193
2-Chlorotoluene	U		0.00102	0.00277	1	09/19/2019 13:21	WG1348193
4-Chlorotoluene	U		0.00125	0.00553	1	09/19/2019 13:21	WG1348193
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00564	0.0277	1	09/19/2019 13:21	WG1348193
1,2-Dibromoethane	U		0.000581	0.00277	1	09/19/2019 13:21	WG1348193
Dibromomethane	U		0.00111	0.00553	1	09/19/2019 13:21	WG1348193
1,2-Dichlorobenzene	U		0.00160	0.00553	1	09/19/2019 13:21	WG1348193
1,3-Dichlorobenzene	U		0.00188	0.00553	1	09/19/2019 13:21	WG1348193
1,4-Dichlorobenzene	U		0.00218	0.00553	1	09/19/2019 13:21	WG1348193
Dichlorodifluoromethane	U		0.000905	0.00277	1	09/19/2019 13:21	WG1348193
1,1-Dichloroethane	U		0.000636	0.00277	1	09/19/2019 13:21	WG1348193
1,2-Dichloroethane	U		0.000525	0.00277	1	09/19/2019 13:21	WG1348193
1,1-Dichloroethene	U		0.000553	0.00277	1	09/19/2019 13:21	WG1348193
cis-1,2-Dichloroethene	0.102		0.000763	0.00277	1	09/19/2019 13:21	WG1348193
trans-1,2-Dichloroethene	U		0.00158	0.00553	1	09/19/2019 13:21	WG1348193
1,2-Dichloropropane	U		0.00140	0.00553	1	09/19/2019 13:21	WG1348193
1,1-Dichloropropene	U		0.000774	0.00277	1	09/19/2019 13:21	WG1348193
1,3-Dichloropropane	U		0.00194	0.00553	1	09/19/2019 13:21	WG1348193
cis-1,3-Dichloropropene	U		0.000750	0.00277	1	09/19/2019 13:21	WG1348193
trans-1,3-Dichloropropene	U		0.00169	0.00553	1	09/19/2019 13:21	WG1348193
trans-1,4-Dichloro-2-butene	U		0.00155	0.00553	1	09/19/2019 13:21	WG1348193
2,2-Dichloropropane	U		0.000877	0.00277	1	09/19/2019 13:21	WG1348193
Di-isopropyl ether	U		0.000387	0.00111	1	09/19/2019 13:21	WG1348193
Ethylbenzene	U		0.000586	0.00277	1	09/19/2019 13:21	WG1348193
Hexachloro-1,3-butadiene	U		0.0140	0.0277	1	09/19/2019 13:21	WG1348193
2-Hexanone	U		0.0111	0.0277	1	09/19/2019 13:21	WG1348193
n-Hexane	0.0106		0.00117	0.00553	1	09/19/2019 13:21	WG1348193
Iodomethane	U		0.00669	0.0138	1	09/19/2019 13:21	WG1348193
Isopropylbenzene	U		0.000955	0.00277	1	09/19/2019 13:21	WG1348193
p-Isopropyltoluene	U		0.00258	0.00553	1	09/19/2019 13:21	WG1348193
2-Butanone (MEK)	0.0205	U B J	0.0138	0.0277	1	09/19/2019 13:21	WG1348193
Methylene Chloride	U		0.00734	0.0277	1	09/19/2019 13:21	WG1348193
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	09/19/2019 13:21	WG1348193

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00111	1	09/19/2019 13:21	WG1348193
Naphthalene	U		0.00345	0.0138	1	09/19/2019 13:21	WG1348193
n-Propylbenzene	U		0.00131	0.00553	1	09/19/2019 13:21	WG1348193
Styrene	U		0.00302	0.0138	1	09/19/2019 13:21	WG1348193
1,1,1,2-Tetrachloroethane	U		0.000553	0.00277	1	09/19/2019 13:21	WG1348193
1,1,2,2-Tetrachloroethane	U		0.000431	0.00277	1	09/19/2019 13:21	WG1348193
1,1,2-Trichlorotrifluoroethane	U		0.000747	0.00277	1	09/19/2019 13:21	WG1348193
Tetrachloroethene	U		0.000774	0.00277	1	09/19/2019 13:21	WG1348193
Toluene	0.00757		0.00138	0.00553	1	09/19/2019 13:21	WG1348193
1,2,3-Trichlorobenzene	U		0.000691	0.00277	1	09/19/2019 13:21	WG1348193
1,2,4-Trichlorobenzene	U		0.00533	0.0138	1	09/19/2019 13:21	WG1348193
1,1,1-Trichloroethane	U		0.000304	0.00277	1	09/19/2019 13:21	WG1348193
1,1,2-Trichloroethane	U		0.000977	0.00277	1	09/19/2019 13:21	WG1348193
Trichloroethene	U		0.000442	0.00111	1	09/19/2019 13:21	WG1348193
Trichlorofluoromethane	U		0.000553	0.00277	1	09/19/2019 13:21	WG1348193
1,2,3-Trichloropropane	U		0.00564	0.0138	1	09/19/2019 13:21	WG1348193
1,2,4-Trimethylbenzene	U		0.00128	0.00553	1	09/19/2019 13:21	WG1348193
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	09/19/2019 13:21	WG1348193
1,3,5-Trimethylbenzene	U		0.00119	0.00553	1	09/19/2019 13:21	WG1348193
Vinyl acetate	U		0.00389	0.0138	1	09/19/2019 13:21	WG1348193
Vinyl chloride	0.0239		0.000755	0.00277	1	09/19/2019 13:21	WG1348193
Xylenes, Total	U		0.00529	0.00719	1	09/19/2019 13:21	WG1348193
(S) Toluene-d8	*107*			*75.0-131*		*09/19/2019 13:21*	WG1348193
(S) 4-Bromofluorobenzene	*96.5*			*67.0-138*		*09/19/2019 13:21*	WG1348193
(S) 1,2-Dichloroethane-d4	*96.9*			*70.0-130*		*09/19/2019 13:21*	WG1348193

MW-314-65

Collected date/time: 09/13/19 13:15

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.1		1	09/19/2019 20:45	WG1349075

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0316	B	0.0156	0.0284	1	09/24/2019 03:49	WG1350568
Acrylonitrile	U UJ	J0	0.00216	0.0142	1	09/24/2019 03:49	WG1350568
Benzene	U		0.000454	0.00114	1	09/24/2019 03:49	WG1350568
Bromobenzene	U		0.00119	0.0142	1	09/24/2019 03:49	WG1350568
Bromodichloromethane	U		0.000895	0.00284	1	09/24/2019 03:49	WG1350568
Bromochloromethane	U		0.00128	0.00568	1	09/24/2019 03:49	WG1350568
Bromoform	U		0.00679	0.0284	1	09/24/2019 03:49	WG1350568
Bromomethane	U		0.00420	0.0142	1	09/24/2019 03:49	WG1350568
n-Butylbenzene	U		0.00436	0.0142	1	09/24/2019 03:49	WG1350568
sec-Butylbenzene	U		0.00287	0.0142	1	09/24/2019 03:49	WG1350568
tert-Butylbenzene	U		0.00176	0.00568	1	09/24/2019 03:49	WG1350568
Carbon disulfide	U UJ	J0	0.00461	0.0142	1	09/24/2019 03:49	WG1350568
Carbon tetrachloride	U		0.00123	0.00568	1	09/24/2019 03:49	WG1350568
Chlorobenzene	U		0.000651	0.00284	1	09/24/2019 03:49	WG1350568
Chlorodibromomethane	U		0.000511	0.00284	1	09/24/2019 03:49	WG1350568
Chloroethane	U		0.00123	0.00568	1	09/24/2019 03:49	WG1350568
Chloroform	U		0.000471	0.00284	1	09/24/2019 03:49	WG1350568
Chloromethane	U		0.00158	0.0142	1	09/24/2019 03:49	WG1350568
2-Chlorotoluene	U		0.00104	0.00284	1	09/24/2019 03:49	WG1350568
4-Chlorotoluene	U		0.00128	0.00568	1	09/24/2019 03:49	WG1350568
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00579	0.0284	1	09/24/2019 03:49	WG1350568
1,2-Dibromoethane	U		0.000596	0.00284	1	09/24/2019 03:49	WG1350568
Dibromomethane	U		0.00114	0.00568	1	09/24/2019 03:49	WG1350568
1,2-Dichlorobenzene	U		0.00165	0.00568	1	09/24/2019 03:49	WG1350568
1,3-Dichlorobenzene	U		0.00193	0.00568	1	09/24/2019 03:49	WG1350568
1,4-Dichlorobenzene	U		0.00224	0.00568	1	09/24/2019 03:49	WG1350568
Dichlorodifluoromethane	U		0.000929	0.00284	1	09/24/2019 03:49	WG1350568
1,1-Dichloroethane	U		0.000653	0.00284	1	09/24/2019 03:49	WG1350568
1,2-Dichloroethane	U		0.000539	0.00284	1	09/24/2019 03:49	WG1350568
1,1-Dichloroethene	U		0.000568	0.00284	1	09/24/2019 03:49	WG1350568
cis-1,2-Dichloroethene	0.0843		0.000783	0.00284	1	09/24/2019 03:49	WG1350568
trans-1,2-Dichloroethene	U		0.00162	0.00568	1	09/24/2019 03:49	WG1350568
1,2-Dichloropropane	U		0.00144	0.00568	1	09/24/2019 03:49	WG1350568
1,1-Dichloropropene	U		0.000795	0.00284	1	09/24/2019 03:49	WG1350568
1,3-Dichloropropane	U		0.00199	0.00568	1	09/24/2019 03:49	WG1350568
cis-1,3-Dichloropropene	U		0.000770	0.00284	1	09/24/2019 03:49	WG1350568
trans-1,3-Dichloropropene	U		0.00174	0.00568	1	09/24/2019 03:49	WG1350568
trans-1,4-Dichloro-2-butene	U		0.00159	0.00568	1	09/24/2019 03:49	WG1350568
2,2-Dichloropropane	U		0.000900	0.00284	1	09/24/2019 03:49	WG1350568
Di-isopropyl ether	U		0.000397	0.00114	1	09/24/2019 03:49	WG1350568
Ethylbenzene	U		0.000602	0.00284	1	09/24/2019 03:49	WG1350568
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	09/24/2019 03:49	WG1350568
2-Hexanone	U		0.0114	0.0284	1	09/24/2019 03:49	WG1350568
n-Hexane	U UJ	J0	0.00120	0.00568	1	09/24/2019 03:49	WG1350568
Iodomethane	U		0.00687	0.0142	1	09/24/2019 03:49	WG1350568
Isopropylbenzene	U		0.000980	0.00284	1	09/24/2019 03:49	WG1350568
p-Isopropyltoluene	U		0.00265	0.00568	1	09/24/2019 03:49	WG1350568
2-Butanone (MEK)	0.0149 J	J J0	0.0142	0.0284	1	09/24/2019 03:49	WG1350568
Methylene Chloride	0.0108 J	J	0.00754	0.0284	1	09/24/2019 03:49	WG1350568
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0284	1	09/24/2019 03:49	WG1350568

MW-314-65

Collected date/time: 09/13/19 13:15

SAMPLE RESULTS - 13

L1139441

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000335	0.00114	1	09/24/2019 03:49	WG1350568
Naphthalene	U		0.00354	0.0142	1	09/24/2019 03:49	WG1350568
n-Propylbenzene	U		0.00134	0.00568	1	09/24/2019 03:49	WG1350568
Styrene	U		0.00310	0.0142	1	09/24/2019 03:49	WG1350568
1,1,1,2-Tetrachloroethane	U		0.000568	0.00284	1	09/24/2019 03:49	WG1350568
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000443	0.00284	1	09/24/2019 03:49	WG1350568
1,1,2-Trichlorotrifluoroethane	U		0.000766	0.00284	1	09/24/2019 03:49	WG1350568
Tetrachloroethene	U		0.000795	0.00284	1	09/24/2019 03:49	WG1350568
Toluene	0.00364	J J	0.00142	0.00568	1	09/24/2019 03:49	WG1350568
1,2,3-Trichlorobenzene	U		0.000710	0.00284	1	09/24/2019 03:49	WG1350568
1,2,4-Trichlorobenzene	U		0.00547	0.0142	1	09/24/2019 03:49	WG1350568
1,1,1-Trichloroethane	U		0.000312	0.00284	1	09/24/2019 03:49	WG1350568
1,1,2-Trichloroethane	U		0.00100	0.00284	1	09/24/2019 03:49	WG1350568
Trichloroethene	U		0.000454	0.00114	1	09/24/2019 03:49	WG1350568
Trichlorofluoromethane	U		0.000568	0.00284	1	09/24/2019 03:49	WG1350568
1,2,3-Trichloropropane	U		0.00579	0.0142	1	09/24/2019 03:49	WG1350568
1,2,4-Trimethylbenzene	U		0.00132	0.00568	1	09/24/2019 03:49	WG1350568
1,2,3-Trimethylbenzene	U		0.00131	0.00568	1	09/24/2019 03:49	WG1350568
1,3,5-Trimethylbenzene	U		0.00123	0.00568	1	09/24/2019 03:49	WG1350568
Vinyl acetate	U	UJ J0	0.00400	0.0142	1	09/24/2019 03:49	WG1350568
Vinyl chloride	U		0.000775	0.00284	1	09/24/2019 03:49	WG1350568
Xylenes, Total	U		0.00543	0.00738	1	09/24/2019 03:49	WG1350568
(S) Toluene-d8	*111*			*75.0-131*		*09/24/2019 03:49*	WG1350568
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/24/2019 03:49*	WG1350568
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/24/2019 03:49*	WG1350568

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.6		1	09/19/2019 20:45	WG1349075

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.253	J	0.166	0.304	10.88	09/24/2019 11:14	WG1350962
Acrylonitrile	U UJ	J0	0.0231	0.152	10.88	09/24/2019 11:14	WG1350962
Benzene	U		0.00486	0.0121	10.88	09/24/2019 11:14	WG1350962
Bromobenzene	U		0.0127	0.152	10.88	09/24/2019 11:14	WG1350962
Bromodichloromethane	U		0.00957	0.0304	10.88	09/24/2019 11:14	WG1350962
Bromochloromethane	U		0.0137	0.0607	10.88	09/24/2019 11:14	WG1350962
Bromoform	U		0.0727	0.304	10.88	09/24/2019 11:14	WG1350962
Bromomethane	U		0.0449	0.152	10.88	09/24/2019 11:14	WG1350962
n-Butylbenzene	U		0.0467	0.152	10.88	09/24/2019 11:14	WG1350962
sec-Butylbenzene	U		0.0307	0.152	10.88	09/24/2019 11:14	WG1350962
tert-Butylbenzene	U		0.0189	0.0607	10.88	09/24/2019 11:14	WG1350962
Carbon disulfide	U		0.0494	0.152	10.88	09/24/2019 11:14	WG1350962
Carbon tetrachloride	U		0.0132	0.0607	10.88	09/24/2019 11:14	WG1350962
Chlorobenzene	U		0.00696	0.0304	10.88	09/24/2019 11:14	WG1350962
Chlorodibromomethane	U		0.00547	0.0304	10.88	09/24/2019 11:14	WG1350962
Chloroethane	U		0.0132	0.0607	10.88	09/24/2019 11:14	WG1350962
Chloroform	U		0.00505	0.0304	10.88	09/24/2019 11:14	WG1350962
Chloromethane	U		0.0169	0.152	10.88	09/24/2019 11:14	WG1350962
2-Chlorotoluene	U		0.0112	0.0304	10.88	09/24/2019 11:14	WG1350962
4-Chlorotoluene	U		0.0137	0.0607	10.88	09/24/2019 11:14	WG1350962
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.0620	0.304	10.88	09/24/2019 11:14	WG1350962
1,2-Dibromoethane	U		0.00638	0.0304	10.88	09/24/2019 11:14	WG1350962
Dibromomethane	U		0.0122	0.0607	10.88	09/24/2019 11:14	WG1350962
1,2-Dichlorobenzene	U		0.0176	0.0607	10.88	09/24/2019 11:14	WG1350962
1,3-Dichlorobenzene	U		0.0207	0.0607	10.88	09/24/2019 11:14	WG1350962
1,4-Dichlorobenzene	U		0.0239	0.0607	10.88	09/24/2019 11:14	WG1350962
Dichlorodifluoromethane	U		0.00994	0.0304	10.88	09/24/2019 11:14	WG1350962
1,1-Dichloroethane	U		0.00699	0.0304	10.88	09/24/2019 11:14	WG1350962
1,2-Dichloroethane	U		0.00577	0.0304	10.88	09/24/2019 11:14	WG1350962
1,1-Dichloroethene	U		0.00607	0.0304	10.88	09/24/2019 11:14	WG1350962
cis-1,2-Dichloroethene	0.0502		0.00839	0.0304	10.88	09/24/2019 11:14	WG1350962
trans-1,2-Dichloroethene	U		0.0174	0.0607	10.88	09/24/2019 11:14	WG1350962
1,2-Dichloropropane	U		0.0154	0.0607	10.88	09/24/2019 11:14	WG1350962
1,1-Dichloropropene	U		0.00851	0.0304	10.88	09/24/2019 11:14	WG1350962
1,3-Dichloropropane	U		0.0212	0.0607	10.88	09/24/2019 11:14	WG1350962
cis-1,3-Dichloropropene	U		0.00824	0.0304	10.88	09/24/2019 11:14	WG1350962
trans-1,3-Dichloropropene	U		0.0185	0.0607	10.88	09/24/2019 11:14	WG1350962
trans-1,4-Dichloro-2-butene	U		0.0170	0.0607	10.88	09/24/2019 11:14	WG1350962
2,2-Dichloropropane	U		0.00964	0.0304	10.88	09/24/2019 11:14	WG1350962
Di-isopropyl ether	U		0.00425	0.0121	10.88	09/24/2019 11:14	WG1350962
Ethylbenzene	U		0.00644	0.0304	10.88	09/24/2019 11:14	WG1350962
Hexachloro-1,3-butadiene	U		0.154	0.304	10.88	09/24/2019 11:14	WG1350962
2-Hexanone	U UJ	J0	0.122	0.304	10.88	09/24/2019 11:14	WG1350962
n-Hexane	U UJ	J0	0.0128	0.0607	10.88	09/24/2019 11:14	WG1350962
Iodomethane	U		0.0735	0.152	10.88	09/24/2019 11:14	WG1350962
Isopropylbenzene	U		0.0105	0.0304	10.88	09/24/2019 11:14	WG1350962
p-Isopropyltoluene	U		0.0284	0.0607	10.88	09/24/2019 11:14	WG1350962
2-Butanone (MEK)	U		0.152	0.304	10.88	09/24/2019 11:14	WG1350962
Methylene Chloride	U		0.0806	0.304	10.88	09/24/2019 11:14	WG1350962
4-Methyl-2-pentanone (MIBK)	U		0.122	0.304	10.88	09/24/2019 11:14	WG1350962

MW-314-70

Collected date/time: 09/13/19 13:20

SAMPLE RESULTS - 14

L1139441

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00358	0.0121	10.88	09/24/2019 11:14	WG1350962
Naphthalene	U		0.0379	0.152	10.88	09/24/2019 11:14	WG1350962
n-Propylbenzene	U		0.0143	0.0607	10.88	09/24/2019 11:14	WG1350962
Styrene	U		0.0332	0.152	10.88	09/24/2019 11:14	WG1350962
1,1,1,2-Tetrachloroethane	U		0.00607	0.0304	10.88	09/24/2019 11:14	WG1350962
1,1,2,2-Tetrachloroethane	U	UJ J0 J4	0.00473	0.0304	10.88	09/24/2019 11:14	WG1350962
1,1,2-Trichlorotrifluoroethane	U		0.00820	0.0304	10.88	09/24/2019 11:14	WG1350962
Tetrachloroethene	0.298		0.00851	0.0304	10.88	09/24/2019 11:14	WG1350962
Toluene	0.0338	J J	0.0152	0.0607	10.88	09/24/2019 11:14	WG1350962
1,2,3-Trichlorobenzene	U		0.00759	0.0304	10.88	09/24/2019 11:14	WG1350962
1,2,4-Trichlorobenzene	U		0.0585	0.152	10.88	09/24/2019 11:14	WG1350962
1,1,1-Trichloroethane	U		0.00334	0.0304	10.88	09/24/2019 11:14	WG1350962
1,1,2-Trichloroethane	U		0.0107	0.0304	10.88	09/24/2019 11:14	WG1350962
Trichloroethene	0.138		0.00486	0.0121	10.88	09/24/2019 11:14	WG1350962
Trichlorofluoromethane	U		0.00607	0.0304	10.88	09/24/2019 11:14	WG1350962
1,2,3-Trichloropropane	U		0.0620	0.152	10.88	09/24/2019 11:14	WG1350962
1,2,4-Trimethylbenzene	U		0.0141	0.0607	10.88	09/24/2019 11:14	WG1350962
1,2,3-Trimethylbenzene	U		0.0140	0.0607	10.88	09/24/2019 11:14	WG1350962
1,3,5-Trimethylbenzene	U		0.0132	0.0607	10.88	09/24/2019 11:14	WG1350962
Vinyl acetate	U		0.0428	0.152	10.88	09/24/2019 11:14	WG1350962
Vinyl chloride	U		0.00830	0.0304	10.88	09/24/2019 11:14	WG1350962
Xylenes, Total	U		0.0581	0.0790	10.88	09/24/2019 11:14	WG1350962
(S) Toluene-d8	*116*			*75.0-131*		*09/24/2019 11:14*	WG1350962
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*09/24/2019 11:14*	WG1350962
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/24/2019 11:14*	WG1350962

Sample Narrative:

L1139441-14 WG1350962: Lowest possible dilution due to limited sample volume.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.6		1	09/19/2019 20:45	WG1349075

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0484 U	B J	0.0313	0.0571	2	09/24/2019 03:08	WG1350568
Acrylonitrile	U UJ	J0	0.00434	0.0285	2	09/24/2019 03:08	WG1350568
Benzene	U		0.000913	0.00228	2	09/24/2019 03:08	WG1350568
Bromobenzene	U		0.00240	0.0285	2	09/24/2019 03:08	WG1350568
Bromodichloromethane	U		0.00180	0.00571	2	09/24/2019 03:08	WG1350568
Bromochloromethane	U		0.00258	0.0114	2	09/24/2019 03:08	WG1350568
Bromoform	U		0.0137	0.0571	2	09/24/2019 03:08	WG1350568
Bromomethane	U		0.00845	0.0285	2	09/24/2019 03:08	WG1350568
n-Butylbenzene	U		0.00877	0.0285	2	09/24/2019 03:08	WG1350568
sec-Butylbenzene	U		0.00578	0.0285	2	09/24/2019 03:08	WG1350568
tert-Butylbenzene	U		0.00354	0.0114	2	09/24/2019 03:08	WG1350568
Carbon disulfide	U UJ	J0	0.00927	0.0285	2	09/24/2019 03:08	WG1350568
Carbon tetrachloride	U		0.00247	0.0114	2	09/24/2019 03:08	WG1350568
Chlorobenzene	U		0.00131	0.00571	2	09/24/2019 03:08	WG1350568
Chlorodibromomethane	U		0.00103	0.00571	2	09/24/2019 03:08	WG1350568
Chloroethane	U		0.00247	0.0114	2	09/24/2019 03:08	WG1350568
Chloroform	U		0.000948	0.00571	2	09/24/2019 03:08	WG1350568
Chloromethane	U		0.00317	0.0285	2	09/24/2019 03:08	WG1350568
2-Chlorotoluene	U		0.00210	0.00571	2	09/24/2019 03:08	WG1350568
4-Chlorotoluene	U		0.00258	0.0114	2	09/24/2019 03:08	WG1350568
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.0116	0.0571	2	09/24/2019 03:08	WG1350568
1,2-Dibromoethane	U		0.00120	0.00571	2	09/24/2019 03:08	WG1350568
Dibromomethane	U		0.00228	0.0114	2	09/24/2019 03:08	WG1350568
1,2-Dichlorobenzene	U		0.00331	0.0114	2	09/24/2019 03:08	WG1350568
1,3-Dichlorobenzene	U		0.00388	0.0114	2	09/24/2019 03:08	WG1350568
1,4-Dichlorobenzene	U		0.00450	0.0114	2	09/24/2019 03:08	WG1350568
Dichlorodifluoromethane	U		0.00187	0.00571	2	09/24/2019 03:08	WG1350568
1,1-Dichloroethane	U		0.00131	0.00571	2	09/24/2019 03:08	WG1350568
1,2-Dichloroethane	U		0.00108	0.00571	2	09/24/2019 03:08	WG1350568
1,1-Dichloroethene	U		0.00114	0.00571	2	09/24/2019 03:08	WG1350568
cis-1,2-Dichloroethene	0.153		0.00158	0.00571	2	09/24/2019 03:08	WG1350568
trans-1,2-Dichloroethene	U		0.00327	0.0114	2	09/24/2019 03:08	WG1350568
1,2-Dichloropropane	U		0.00290	0.0114	2	09/24/2019 03:08	WG1350568
1,1-Dichloropropene	U		0.00160	0.00571	2	09/24/2019 03:08	WG1350568
1,3-Dichloropropane	U		0.00400	0.0114	2	09/24/2019 03:08	WG1350568
cis-1,3-Dichloropropene	U		0.00155	0.00571	2	09/24/2019 03:08	WG1350568
trans-1,3-Dichloropropene	U		0.00349	0.0114	2	09/24/2019 03:08	WG1350568
trans-1,4-Dichloro-2-butene	U		0.00320	0.0114	2	09/24/2019 03:08	WG1350568
2,2-Dichloropropane	U		0.00182	0.00571	2	09/24/2019 03:08	WG1350568
Di-isopropyl ether	U		0.000799	0.00228	2	09/24/2019 03:08	WG1350568
Ethylbenzene	U		0.00121	0.00571	2	09/24/2019 03:08	WG1350568
Hexachloro-1,3-butadiene	U		0.0290	0.0571	2	09/24/2019 03:08	WG1350568
2-Hexanone	U		0.0228	0.0571	2	09/24/2019 03:08	WG1350568
n-Hexane	U UJ	J0	0.00242	0.0114	2	09/24/2019 03:08	WG1350568
Iodomethane	U		0.0138	0.0285	2	09/24/2019 03:08	WG1350568
Isopropylbenzene	U		0.00198	0.00571	2	09/24/2019 03:08	WG1350568
p-Isopropyltoluene	U		0.00532	0.0114	2	09/24/2019 03:08	WG1350568
2-Butanone (MEK)	U UJ	J0	0.0285	0.0571	2	09/24/2019 03:08	WG1350568
Methylene Chloride	0.0169 J	J	0.0152	0.0571	2	09/24/2019 03:08	WG1350568
4-Methyl-2-pentanone (MIBK)	U		0.0228	0.0571	2	09/24/2019 03:08	WG1350568

MW-314-75
Collected date/time: 09/13/19 13:22

SAMPLE RESULTS - 15
L1139441

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000674	0.00228	2	09/24/2019 03:08	WG1350568
Naphthalene	U		0.00712	0.0285	2	09/24/2019 03:08	WG1350568
n-Propylbenzene	U		0.00269	0.0114	2	09/24/2019 03:08	WG1350568
Styrene	U		0.00623	0.0285	2	09/24/2019 03:08	WG1350568
1,1,1,2-Tetrachloroethane	U		0.00114	0.00571	2	09/24/2019 03:08	WG1350568
1,1,2,2-Tetrachloroethane	U UJ	J0	0.000890	0.00571	2	09/24/2019 03:08	WG1350568
1,1,2-Trichlorotrifluoroethane	U		0.00154	0.00571	2	09/24/2019 03:08	WG1350568
Tetrachloroethene	0.0441		0.00160	0.00571	2	09/24/2019 03:08	WG1350568
Toluene	0.00677 J	J	0.00285	0.0114	2	09/24/2019 03:08	WG1350568
1,2,3-Trichlorobenzene	U		0.00143	0.00571	2	09/24/2019 03:08	WG1350568
1,2,4-Trichlorobenzene	U		0.0110	0.0285	2	09/24/2019 03:08	WG1350568
1,1,1-Trichloroethane	U		0.000628	0.00571	2	09/24/2019 03:08	WG1350568
1,1,2-Trichloroethane	U		0.00202	0.00571	2	09/24/2019 03:08	WG1350568
Trichloroethene	0.124		0.000913	0.00228	2	09/24/2019 03:08	WG1350568
Trichlorofluoromethane	U		0.00114	0.00571	2	09/24/2019 03:08	WG1350568
1,2,3-Trichloropropane	U		0.0116	0.0285	2	09/24/2019 03:08	WG1350568
1,2,4-Trimethylbenzene	U		0.00265	0.0114	2	09/24/2019 03:08	WG1350568
1,2,3-Trimethylbenzene	U		0.00263	0.0114	2	09/24/2019 03:08	WG1350568
1,3,5-Trimethylbenzene	U		0.00247	0.0114	2	09/24/2019 03:08	WG1350568
Vinyl acetate	U UJ	J0	0.00804	0.0285	2	09/24/2019 03:08	WG1350568
Vinyl chloride	U		0.00156	0.00571	2	09/24/2019 03:08	WG1350568
Xylenes, Total	U		0.0109	0.0148	2	09/24/2019 03:08	WG1350568
(S) Toluene-d8	*111*			*75.0-131*		*09/24/2019 03:08*	WG1350568
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/24/2019 03:08*	WG1350568
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/24/2019 03:08*	WG1350568

Sample Narrative:

L1139441-15 WG1350568: Lowest possible dilution due to limited sample volume.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.0		1	09/19/2019 20:45	WG1349075

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0667	B	0.0204	0.0373	1.12	09/24/2019 03:29	WG1350568
Acrylonitrile	U	UJ J0	0.00284	0.0187	1.12	09/24/2019 03:29	WG1350568
Benzene	U		0.000597	0.00149	1.12	09/24/2019 03:29	WG1350568
Bromobenzene	U		0.00157	0.0187	1.12	09/24/2019 03:29	WG1350568
Bromodichloromethane	U		0.00118	0.00373	1.12	09/24/2019 03:29	WG1350568
Bromochloromethane	U		0.00168	0.00747	1.12	09/24/2019 03:29	WG1350568
Bromoform	U		0.00893	0.0373	1.12	09/24/2019 03:29	WG1350568
Bromomethane	U		0.00552	0.0187	1.12	09/24/2019 03:29	WG1350568
n-Butylbenzene	U		0.00573	0.0187	1.12	09/24/2019 03:29	WG1350568
sec-Butylbenzene	U		0.00377	0.0187	1.12	09/24/2019 03:29	WG1350568
tert-Butylbenzene	U		0.00232	0.00747	1.12	09/24/2019 03:29	WG1350568
Carbon disulfide	U	UJ J0	0.00607	0.0187	1.12	09/24/2019 03:29	WG1350568
Carbon tetrachloride	U		0.00161	0.00747	1.12	09/24/2019 03:29	WG1350568
Chlorobenzene	U		0.000856	0.00373	1.12	09/24/2019 03:29	WG1350568
Chlorodibromomethane	U		0.000672	0.00373	1.12	09/24/2019 03:29	WG1350568
Chloroethane	U		0.00161	0.00747	1.12	09/24/2019 03:29	WG1350568
Chloroform	U		0.000620	0.00373	1.12	09/24/2019 03:29	WG1350568
Chloromethane	U		0.00208	0.0187	1.12	09/24/2019 03:29	WG1350568
2-Chlorotoluene	U		0.00137	0.00373	1.12	09/24/2019 03:29	WG1350568
4-Chlorotoluene	U		0.00168	0.00747	1.12	09/24/2019 03:29	WG1350568
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00761	0.0373	1.12	09/24/2019 03:29	WG1350568
1,2-Dibromoethane	U		0.000784	0.00373	1.12	09/24/2019 03:29	WG1350568
Dibromomethane	U		0.00149	0.00747	1.12	09/24/2019 03:29	WG1350568
1,2-Dichlorobenzene	U		0.00216	0.00747	1.12	09/24/2019 03:29	WG1350568
1,3-Dichlorobenzene	U		0.00253	0.00747	1.12	09/24/2019 03:29	WG1350568
1,4-Dichlorobenzene	U		0.00295	0.00747	1.12	09/24/2019 03:29	WG1350568
Dichlorodifluoromethane	U		0.00122	0.00373	1.12	09/24/2019 03:29	WG1350568
1,1-Dichloroethane	U		0.000859	0.00373	1.12	09/24/2019 03:29	WG1350568
1,2-Dichloroethane	U		0.000709	0.00373	1.12	09/24/2019 03:29	WG1350568
1,1-Dichloroethene	U		0.000747	0.00373	1.12	09/24/2019 03:29	WG1350568
cis-1,2-Dichloroethene	0.139		0.00103	0.00373	1.12	09/24/2019 03:29	WG1350568
trans-1,2-Dichloroethene	U		0.00213	0.00747	1.12	09/24/2019 03:29	WG1350568
1,2-Dichloropropane	U		0.00189	0.00747	1.12	09/24/2019 03:29	WG1350568
1,1-Dichloropropene	U		0.00105	0.00373	1.12	09/24/2019 03:29	WG1350568
1,3-Dichloropropane	U		0.00261	0.00747	1.12	09/24/2019 03:29	WG1350568
cis-1,3-Dichloropropene	U		0.00101	0.00373	1.12	09/24/2019 03:29	WG1350568
trans-1,3-Dichloropropene	U		0.00228	0.00747	1.12	09/24/2019 03:29	WG1350568
trans-1,4-Dichloro-2-butene	U		0.00209	0.00747	1.12	09/24/2019 03:29	WG1350568
2,2-Dichloropropane	U		0.00118	0.00373	1.12	09/24/2019 03:29	WG1350568
Di-isopropyl ether	U		0.000523	0.00149	1.12	09/24/2019 03:29	WG1350568
Ethylbenzene	U		0.000792	0.00373	1.12	09/24/2019 03:29	WG1350568
Hexachloro-1,3-butadiene	U		0.0189	0.0373	1.12	09/24/2019 03:29	WG1350568
2-Hexanone	U		0.0149	0.0373	1.12	09/24/2019 03:29	WG1350568
n-Hexane	U	UJ J0	0.00159	0.00747	1.12	09/24/2019 03:29	WG1350568
Iodomethane	U		0.00904	0.0187	1.12	09/24/2019 03:29	WG1350568
Isopropylbenzene	U		0.00129	0.00373	1.12	09/24/2019 03:29	WG1350568
p-Isopropyltoluene	U		0.00348	0.00747	1.12	09/24/2019 03:29	WG1350568
2-Butanone (MEK)	U	UJ J0	0.0187	0.0373	1.12	09/24/2019 03:29	WG1350568
Methylene Chloride	0.0169	J J	0.00992	0.0373	1.12	09/24/2019 03:29	WG1350568
4-Methyl-2-pentanone (MIBK)	U		0.0149	0.0373	1.12	09/24/2019 03:29	WG1350568

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000440	0.00149	1.12	09/24/2019 03:29	WG1350568
Naphthalene	U		0.00465	0.0187	1.12	09/24/2019 03:29	WG1350568
n-Propylbenzene	U		0.00176	0.00747	1.12	09/24/2019 03:29	WG1350568
Styrene	U		0.00408	0.0187	1.12	09/24/2019 03:29	WG1350568
1,1,1,2-Tetrachloroethane	U		0.000747	0.00373	1.12	09/24/2019 03:29	WG1350568
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000583	0.00373	1.12	09/24/2019 03:29	WG1350568
1,1,2-Trichlorotrifluoroethane	U		0.00101	0.00373	1.12	09/24/2019 03:29	WG1350568
Tetrachloroethene	0.0160		0.00105	0.00373	1.12	09/24/2019 03:29	WG1350568
Toluene	0.00446	J J	0.00187	0.00747	1.12	09/24/2019 03:29	WG1350568
1,2,3-Trichlorobenzene	U		0.000933	0.00373	1.12	09/24/2019 03:29	WG1350568
1,2,4-Trichlorobenzene	U		0.00720	0.0187	1.12	09/24/2019 03:29	WG1350568
1,1,1-Trichloroethane	U		0.000411	0.00373	1.12	09/24/2019 03:29	WG1350568
1,1,2-Trichloroethane	U		0.00132	0.00373	1.12	09/24/2019 03:29	WG1350568
Trichloroethene	0.100		0.000597	0.00149	1.12	09/24/2019 03:29	WG1350568
Trichlorofluoromethane	U		0.000747	0.00373	1.12	09/24/2019 03:29	WG1350568
1,2,3-Trichloropropane	U		0.00761	0.0187	1.12	09/24/2019 03:29	WG1350568
1,2,4-Trimethylbenzene	U		0.00173	0.00747	1.12	09/24/2019 03:29	WG1350568
1,2,3-Trimethylbenzene	U		0.00172	0.00747	1.12	09/24/2019 03:29	WG1350568
1,3,5-Trimethylbenzene	U		0.00161	0.00747	1.12	09/24/2019 03:29	WG1350568
Vinyl acetate	U	UJ J0	0.00525	0.0187	1.12	09/24/2019 03:29	WG1350568
Vinyl chloride	U		0.00102	0.00373	1.12	09/24/2019 03:29	WG1350568
Xylenes, Total	U		0.00713	0.00970	1.12	09/24/2019 03:29	WG1350568
(S) Toluene-d8	*111*			*75.0-131*		*09/24/2019 03:29*	WG1350568
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/24/2019 03:29*	WG1350568
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/24/2019 03:29*	WG1350568

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.2		1	09/19/2019 20:45	WG1349075

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0406	B	0.0173	0.0316	1	09/24/2019 02:07	WG1350568
Acrylonitrile	U	UJ J0	0.00240	0.0158	1	09/24/2019 02:07	WG1350568
Benzene	U		0.000505	0.00126	1	09/24/2019 02:07	WG1350568
Bromobenzene	U		0.00133	0.0158	1	09/24/2019 02:07	WG1350568
Bromodichloromethane	U		0.000995	0.00316	1	09/24/2019 02:07	WG1350568
Bromochloromethane	U		0.00143	0.00631	1	09/24/2019 02:07	WG1350568
Bromoform	U		0.00755	0.0316	1	09/24/2019 02:07	WG1350568
Bromomethane	U		0.00467	0.0158	1	09/24/2019 02:07	WG1350568
n-Butylbenzene	U		0.00485	0.0158	1	09/24/2019 02:07	WG1350568
sec-Butylbenzene	U		0.00319	0.0158	1	09/24/2019 02:07	WG1350568
tert-Butylbenzene	U		0.00196	0.00631	1	09/24/2019 02:07	WG1350568
Carbon disulfide	U	UJ J0	0.00513	0.0158	1	09/24/2019 02:07	WG1350568
Carbon tetrachloride	U		0.00136	0.00631	1	09/24/2019 02:07	WG1350568
Chlorobenzene	U		0.000723	0.00316	1	09/24/2019 02:07	WG1350568
Chlorodibromomethane	U		0.000568	0.00316	1	09/24/2019 02:07	WG1350568
Chloroethane	U		0.00136	0.00631	1	09/24/2019 02:07	WG1350568
Chloroform	U		0.000524	0.00316	1	09/24/2019 02:07	WG1350568
Chloromethane	U		0.00175	0.0158	1	09/24/2019 02:07	WG1350568
2-Chlorotoluene	U		0.00116	0.00316	1	09/24/2019 02:07	WG1350568
4-Chlorotoluene	U		0.00143	0.00631	1	09/24/2019 02:07	WG1350568
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00644	0.0316	1	09/24/2019 02:07	WG1350568
1,2-Dibromoethane	U		0.000663	0.00316	1	09/24/2019 02:07	WG1350568
Dibromomethane	U		0.00126	0.00631	1	09/24/2019 02:07	WG1350568
1,2-Dichlorobenzene	U		0.00183	0.00631	1	09/24/2019 02:07	WG1350568
1,3-Dichlorobenzene	U		0.00215	0.00631	1	09/24/2019 02:07	WG1350568
1,4-Dichlorobenzene	U		0.00249	0.00631	1	09/24/2019 02:07	WG1350568
Dichlorodifluoromethane	U		0.00103	0.00316	1	09/24/2019 02:07	WG1350568
1,1-Dichloroethane	U		0.000726	0.00316	1	09/24/2019 02:07	WG1350568
1,2-Dichloroethane	U		0.000600	0.00316	1	09/24/2019 02:07	WG1350568
1,1-Dichloroethene	U		0.000631	0.00316	1	09/24/2019 02:07	WG1350568
cis-1,2-Dichloroethene	0.00211	J J	0.000871	0.00316	1	09/24/2019 02:07	WG1350568
trans-1,2-Dichloroethene	U		0.00181	0.00631	1	09/24/2019 02:07	WG1350568
1,2-Dichloropropane	U		0.00160	0.00631	1	09/24/2019 02:07	WG1350568
1,1-Dichloropropene	U		0.000884	0.00316	1	09/24/2019 02:07	WG1350568
1,3-Dichloropropane	U		0.00221	0.00631	1	09/24/2019 02:07	WG1350568
cis-1,3-Dichloropropene	U		0.000856	0.00316	1	09/24/2019 02:07	WG1350568
trans-1,3-Dichloropropene	U		0.00193	0.00631	1	09/24/2019 02:07	WG1350568
trans-1,4-Dichloro-2-butene	U		0.00177	0.00631	1	09/24/2019 02:07	WG1350568
2,2-Dichloropropane	U		0.00100	0.00316	1	09/24/2019 02:07	WG1350568
Di-isopropyl ether	U		0.000442	0.00126	1	09/24/2019 02:07	WG1350568
Ethylbenzene	U		0.000669	0.00316	1	09/24/2019 02:07	WG1350568
Hexachloro-1,3-butadiene	U		0.0160	0.0316	1	09/24/2019 02:07	WG1350568
2-Hexanone	U		0.0126	0.0316	1	09/24/2019 02:07	WG1350568
n-Hexane	U	UJ J0	0.00134	0.00631	1	09/24/2019 02:07	WG1350568
Iodomethane	U		0.00764	0.0158	1	09/24/2019 02:07	WG1350568
Isopropylbenzene	U		0.00109	0.00316	1	09/24/2019 02:07	WG1350568
p-Isopropyltoluene	U		0.00294	0.00631	1	09/24/2019 02:07	WG1350568
2-Butanone (MEK)	U	UJ J0	0.0158	0.0316	1	09/24/2019 02:07	WG1350568
Methylene Chloride	0.00999	J J	0.00838	0.0316	1	09/24/2019 02:07	WG1350568
4-Methyl-2-pentanone (MIBK)	U		0.0126	0.0316	1	09/24/2019 02:07	WG1350568

MW-2002-25

Collected date/time: 09/13/19 09:00

SAMPLE RESULTS - 17

L1139441

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000372	0.00126	1	09/24/2019 02:07	WG1350568
Naphthalene	U			0.00394	0.0158	1	09/24/2019 02:07	WG1350568
n-Propylbenzene	U			0.00149	0.00631	1	09/24/2019 02:07	WG1350568
Styrene	U			0.00345	0.0158	1	09/24/2019 02:07	WG1350568
1,1,1,2-Tetrachloroethane	U			0.000631	0.00316	1	09/24/2019 02:07	WG1350568
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.000492	0.00316	1	09/24/2019 02:07	WG1350568
1,1,2-Trichlorotrifluoroethane	U			0.000852	0.00316	1	09/24/2019 02:07	WG1350568
Tetrachloroethene	U			0.000884	0.00316	1	09/24/2019 02:07	WG1350568
Toluene	0.00170	J	J	0.00158	0.00631	1	09/24/2019 02:07	WG1350568
1,2,3-Trichlorobenzene	U			0.000789	0.00316	1	09/24/2019 02:07	WG1350568
1,2,4-Trichlorobenzene	U			0.00609	0.0158	1	09/24/2019 02:07	WG1350568
1,1,1-Trichloroethane	U			0.000347	0.00316	1	09/24/2019 02:07	WG1350568
1,1,2-Trichloroethane	U			0.00111	0.00316	1	09/24/2019 02:07	WG1350568
Trichloroethene	U			0.000505	0.00126	1	09/24/2019 02:07	WG1350568
Trichlorofluoromethane	U			0.000631	0.00316	1	09/24/2019 02:07	WG1350568
1,2,3-Trichloropropane	U			0.00644	0.0158	1	09/24/2019 02:07	WG1350568
1,2,4-Trimethylbenzene	U			0.00146	0.00631	1	09/24/2019 02:07	WG1350568
1,2,3-Trimethylbenzene	U			0.00145	0.00631	1	09/24/2019 02:07	WG1350568
1,3,5-Trimethylbenzene	U			0.00136	0.00631	1	09/24/2019 02:07	WG1350568
Vinyl acetate	U	UJ	J0	0.00444	0.0158	1	09/24/2019 02:07	WG1350568
Vinyl chloride	U			0.000862	0.00316	1	09/24/2019 02:07	WG1350568
Xylenes, Total	U			0.00603	0.00821	1	09/24/2019 02:07	WG1350568
(S) Toluene-d8	*110*				*75.0-131*		*09/24/2019 02:07*	WG1350568
(S) 4-Bromofluorobenzene	*98.7*				*67.0-138*		*09/24/2019 02:07*	WG1350568
(S) 1,2-Dichloroethane-d4	*101*				*70.0-130*		*09/24/2019 02:07*	WG1350568

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	09/19/2019 20:45	WG1349075

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0221 J	J	0.0154	0.0281	1	09/20/2019 05:52	WG1349125
Acrylonitrile	U		0.00214	0.0141	1	09/20/2019 05:52	WG1349125
Benzene	U		0.000450	0.00112	1	09/20/2019 05:52	WG1349125
Bromobenzene	U		0.00118	0.0141	1	09/20/2019 05:52	WG1349125
Bromodichloromethane	U		0.000886	0.00281	1	09/20/2019 05:52	WG1349125
Bromochloromethane	U		0.00127	0.00562	1	09/20/2019 05:52	WG1349125
Bromoform	U		0.00673	0.0281	1	09/20/2019 05:52	WG1349125
Bromomethane	U		0.00416	0.0141	1	09/20/2019 05:52	WG1349125
n-Butylbenzene	U		0.00432	0.0141	1	09/20/2019 05:52	WG1349125
sec-Butylbenzene	U		0.00285	0.0141	1	09/20/2019 05:52	WG1349125
tert-Butylbenzene	U		0.00174	0.00562	1	09/20/2019 05:52	WG1349125
Carbon disulfide	U		0.00457	0.0141	1	09/20/2019 05:52	WG1349125
Carbon tetrachloride	U		0.00121	0.00562	1	09/20/2019 05:52	WG1349125
Chlorobenzene	U		0.000644	0.00281	1	09/20/2019 05:52	WG1349125
Chlorodibromomethane	U		0.000506	0.00281	1	09/20/2019 05:52	WG1349125
Chloroethane	U		0.00121	0.00562	1	09/20/2019 05:52	WG1349125
Chloroform	U		0.000467	0.00281	1	09/20/2019 05:52	WG1349125
Chloromethane	U		0.00156	0.0141	1	09/20/2019 05:52	WG1349125
2-Chlorotoluene	U		0.00103	0.00281	1	09/20/2019 05:52	WG1349125
4-Chlorotoluene	U		0.00127	0.00562	1	09/20/2019 05:52	WG1349125
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00574	0.0281	1	09/20/2019 05:52	WG1349125
1,2-Dibromoethane	U		0.000590	0.00281	1	09/20/2019 05:52	WG1349125
Dibromomethane	U		0.00112	0.00562	1	09/20/2019 05:52	WG1349125
1,2-Dichlorobenzene	U		0.00163	0.00562	1	09/20/2019 05:52	WG1349125
1,3-Dichlorobenzene	U		0.00191	0.00562	1	09/20/2019 05:52	WG1349125
1,4-Dichlorobenzene	U		0.00222	0.00562	1	09/20/2019 05:52	WG1349125
Dichlorodifluoromethane	U		0.000920	0.00281	1	09/20/2019 05:52	WG1349125
1,1-Dichloroethane	U		0.000647	0.00281	1	09/20/2019 05:52	WG1349125
1,2-Dichloroethane	U		0.000534	0.00281	1	09/20/2019 05:52	WG1349125
1,1-Dichloroethene	U		0.000562	0.00281	1	09/20/2019 05:52	WG1349125
cis-1,2-Dichloroethene	U		0.000776	0.00281	1	09/20/2019 05:52	WG1349125
trans-1,2-Dichloroethene	U		0.00161	0.00562	1	09/20/2019 05:52	WG1349125
1,2-Dichloropropane	U		0.00143	0.00562	1	09/20/2019 05:52	WG1349125
1,1-Dichloropropene	U		0.000787	0.00281	1	09/20/2019 05:52	WG1349125
1,3-Dichloropropane	U		0.00197	0.00562	1	09/20/2019 05:52	WG1349125
cis-1,3-Dichloropropene	U		0.000763	0.00281	1	09/20/2019 05:52	WG1349125
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	09/20/2019 05:52	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	09/20/2019 05:52	WG1349125
2,2-Dichloropropane	U		0.000892	0.00281	1	09/20/2019 05:52	WG1349125
Di-isopropyl ether	U		0.000394	0.00112	1	09/20/2019 05:52	WG1349125
Ethylbenzene	U		0.000596	0.00281	1	09/20/2019 05:52	WG1349125
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	09/20/2019 05:52	WG1349125
2-Hexanone	U		0.0112	0.0281	1	09/20/2019 05:52	WG1349125
n-Hexane	U		0.00119	0.00562	1	09/20/2019 05:52	WG1349125
Iodomethane	U		0.00680	0.0141	1	09/20/2019 05:52	WG1349125
Isopropylbenzene	U		0.000971	0.00281	1	09/20/2019 05:52	WG1349125
p-Isopropyltoluene	U		0.00262	0.00562	1	09/20/2019 05:52	WG1349125
2-Butanone (MEK)	0.0182 U	B J	0.0141	0.0281	1	09/20/2019 05:52	WG1349125
Methylene Chloride	U		0.00747	0.0281	1	09/20/2019 05:52	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	09/20/2019 05:52	WG1349125

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00112	1	09/20/2019 05:52	WG1349125
Naphthalene	U		0.00351	0.0141	1	09/20/2019 05:52	WG1349125
n-Propylbenzene	U		0.00133	0.00562	1	09/20/2019 05:52	WG1349125
Styrene	U		0.00307	0.0141	1	09/20/2019 05:52	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	09/20/2019 05:52	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000439	0.00281	1	09/20/2019 05:52	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000759	0.00281	1	09/20/2019 05:52	WG1349125
Tetrachloroethene	U		0.000787	0.00281	1	09/20/2019 05:52	WG1349125
Toluene	0.00454 J	J	0.00141	0.00562	1	09/20/2019 05:52	WG1349125
1,2,3-Trichlorobenzene	U		0.000703	0.00281	1	09/20/2019 05:52	WG1349125
1,2,4-Trichlorobenzene	U		0.00542	0.0141	1	09/20/2019 05:52	WG1349125
1,1,1-Trichloroethane	U		0.000309	0.00281	1	09/20/2019 05:52	WG1349125
1,1,2-Trichloroethane	U		0.000993	0.00281	1	09/20/2019 05:52	WG1349125
Trichloroethene	U		0.000450	0.00112	1	09/20/2019 05:52	WG1349125
Trichlorofluoromethane	U		0.000562	0.00281	1	09/20/2019 05:52	WG1349125
1,2,3-Trichloropropane	U		0.00574	0.0141	1	09/20/2019 05:52	WG1349125
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	09/20/2019 05:52	WG1349125
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	09/20/2019 05:52	WG1349125
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	09/20/2019 05:52	WG1349125
Vinyl acetate	U		0.00396	0.0141	1	09/20/2019 05:52	WG1349125
Vinyl chloride	U		0.000768	0.00281	1	09/20/2019 05:52	WG1349125
Xylenes, Total	U		0.00538	0.00731	1	09/20/2019 05:52	WG1349125
(S) Toluene-d8	*107*			*75.0-131*		*09/20/2019 05:52*	WG1349125
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*		*09/20/2019 05:52*	WG1349125
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*09/20/2019 05:52*	WG1349125

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.4		1	09/19/2019 20:45	WG1349075

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0322		0.0159	0.0289	1	09/20/2019 06:14	WG1349125
Acrylonitrile	U		0.00220	0.0145	1	09/20/2019 06:14	WG1349125
Benzene	U		0.000463	0.00116	1	09/20/2019 06:14	WG1349125
Bromobenzene	U		0.00122	0.0145	1	09/20/2019 06:14	WG1349125
Bromodichloromethane	U		0.000912	0.00289	1	09/20/2019 06:14	WG1349125
Bromochloromethane	U		0.00131	0.00579	1	09/20/2019 06:14	WG1349125
Bromoform	U		0.00692	0.0289	1	09/20/2019 06:14	WG1349125
Bromomethane	U		0.00428	0.0145	1	09/20/2019 06:14	WG1349125
n-Butylbenzene	U		0.00445	0.0145	1	09/20/2019 06:14	WG1349125
sec-Butylbenzene	U		0.00293	0.0145	1	09/20/2019 06:14	WG1349125
tert-Butylbenzene	U		0.00179	0.00579	1	09/20/2019 06:14	WG1349125
Carbon disulfide	U		0.00470	0.0145	1	09/20/2019 06:14	WG1349125
Carbon tetrachloride	U		0.00125	0.00579	1	09/20/2019 06:14	WG1349125
Chlorobenzene	U		0.000663	0.00289	1	09/20/2019 06:14	WG1349125
Chlorodibromomethane	U		0.000521	0.00289	1	09/20/2019 06:14	WG1349125
Chloroethane	U		0.00125	0.00579	1	09/20/2019 06:14	WG1349125
Chloroform	0.000661	J J	0.000481	0.00289	1	09/20/2019 06:14	WG1349125
Chloromethane	U		0.00161	0.0145	1	09/20/2019 06:14	WG1349125
2-Chlorotoluene	U		0.00107	0.00289	1	09/20/2019 06:14	WG1349125
4-Chlorotoluene	U		0.00131	0.00579	1	09/20/2019 06:14	WG1349125
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00591	0.0289	1	09/20/2019 06:14	WG1349125
1,2-Dibromoethane	U		0.000608	0.00289	1	09/20/2019 06:14	WG1349125
Dibromomethane	U		0.00116	0.00579	1	09/20/2019 06:14	WG1349125
1,2-Dichlorobenzene	U		0.00168	0.00579	1	09/20/2019 06:14	WG1349125
1,3-Dichlorobenzene	U		0.00197	0.00579	1	09/20/2019 06:14	WG1349125
1,4-Dichlorobenzene	U		0.00228	0.00579	1	09/20/2019 06:14	WG1349125
Dichlorodifluoromethane	U		0.000947	0.00289	1	09/20/2019 06:14	WG1349125
1,1-Dichloroethane	U		0.000666	0.00289	1	09/20/2019 06:14	WG1349125
1,2-Dichloroethane	U		0.000550	0.00289	1	09/20/2019 06:14	WG1349125
1,1-Dichloroethene	U		0.000579	0.00289	1	09/20/2019 06:14	WG1349125
cis-1,2-Dichloroethene	0.00566		0.000799	0.00289	1	09/20/2019 06:14	WG1349125
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	09/20/2019 06:14	WG1349125
1,2-Dichloropropane	U		0.00147	0.00579	1	09/20/2019 06:14	WG1349125
1,1-Dichloropropene	U		0.000811	0.00289	1	09/20/2019 06:14	WG1349125
1,3-Dichloropropane	U		0.00203	0.00579	1	09/20/2019 06:14	WG1349125
cis-1,3-Dichloropropene	U		0.000785	0.00289	1	09/20/2019 06:14	WG1349125
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	09/20/2019 06:14	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	09/20/2019 06:14	WG1349125
2,2-Dichloropropane	U		0.000918	0.00289	1	09/20/2019 06:14	WG1349125
Di-isopropyl ether	U		0.000405	0.00116	1	09/20/2019 06:14	WG1349125
Ethylbenzene	U		0.000614	0.00289	1	09/20/2019 06:14	WG1349125
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1	09/20/2019 06:14	WG1349125
2-Hexanone	U		0.0116	0.0289	1	09/20/2019 06:14	WG1349125
n-Hexane	U		0.00123	0.00579	1	09/20/2019 06:14	WG1349125
Iodomethane	U		0.00701	0.0145	1	09/20/2019 06:14	WG1349125
Isopropylbenzene	U		0.000999	0.00289	1	09/20/2019 06:14	WG1349125
p-Isopropyltoluene	U		0.00270	0.00579	1	09/20/2019 06:14	WG1349125
2-Butanone (MEK)	0.0242	U B J	0.0145	0.0289	1	09/20/2019 06:14	WG1349125
Methylene Chloride	0.00841	J J	0.00769	0.0289	1	09/20/2019 06:14	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0289	1	09/20/2019 06:14	WG1349125

MW-324-10
Collected date/time: 09/12/19 10:55

SAMPLE RESULTS - 19

L1139441

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	09/20/2019 06:14	WG1349125
Naphthalene	U		0.00361	0.0145	1	09/20/2019 06:14	WG1349125
n-Propylbenzene	U		0.00137	0.00579	1	09/20/2019 06:14	WG1349125
Styrene	U		0.00316	0.0145	1	09/20/2019 06:14	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000579	0.00289	1	09/20/2019 06:14	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000452	0.00289	1	09/20/2019 06:14	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00289	1	09/20/2019 06:14	WG1349125
Tetrachloroethene	0.00158 J	J	0.000811	0.00289	1	09/20/2019 06:14	WG1349125
Toluene	0.00790		0.00145	0.00579	1	09/20/2019 06:14	WG1349125
1,2,3-Trichlorobenzene	U		0.000724	0.00289	1	09/20/2019 06:14	WG1349125
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	09/20/2019 06:14	WG1349125
1,1,1-Trichloroethane	U		0.000318	0.00289	1	09/20/2019 06:14	WG1349125
1,1,2-Trichloroethane	U		0.00102	0.00289	1	09/20/2019 06:14	WG1349125
Trichloroethene	U		0.000463	0.00116	1	09/20/2019 06:14	WG1349125
Trichlorofluoromethane	U		0.000579	0.00289	1	09/20/2019 06:14	WG1349125
1,2,3-Trichloropropane	U		0.00591	0.0145	1	09/20/2019 06:14	WG1349125
1,2,4-Trimethylbenzene	U		0.00134	0.00579	1	09/20/2019 06:14	WG1349125
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	09/20/2019 06:14	WG1349125
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	09/20/2019 06:14	WG1349125
Vinyl acetate	U		0.00408	0.0145	1	09/20/2019 06:14	WG1349125
Vinyl chloride	U		0.000791	0.00289	1	09/20/2019 06:14	WG1349125
Xylenes, Total	U		0.00553	0.00753	1	09/20/2019 06:14	WG1349125
(S) Toluene-d8	*105*			*75.0-131*		*09/20/2019 06:14*	WG1349125
(S) 4-Bromofluorobenzene	*96.7*			*67.0-138*		*09/20/2019 06:14*	WG1349125
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*09/20/2019 06:14*	WG1349125

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.6		1	09/19/2019 20:32	WG1349076

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0335		0.0150	0.0273	1	09/20/2019 06:35	WG1349125
Acrylonitrile	U		0.00207	0.0137	1	09/20/2019 06:35	WG1349125
Benzene	U		0.000437	0.00109	1	09/20/2019 06:35	WG1349125
Bromobenzene	U		0.00115	0.0137	1	09/20/2019 06:35	WG1349125
Bromodichloromethane	U		0.000861	0.00273	1	09/20/2019 06:35	WG1349125
Bromochloromethane	U		0.00123	0.00546	1	09/20/2019 06:35	WG1349125
Bromoform	U		0.00653	0.0273	1	09/20/2019 06:35	WG1349125
Bromomethane	U		0.00404	0.0137	1	09/20/2019 06:35	WG1349125
n-Butylbenzene	U		0.00419	0.0137	1	09/20/2019 06:35	WG1349125
sec-Butylbenzene	U		0.00276	0.0137	1	09/20/2019 06:35	WG1349125
tert-Butylbenzene	U		0.00169	0.00546	1	09/20/2019 06:35	WG1349125
Carbon disulfide	U		0.00443	0.0137	1	09/20/2019 06:35	WG1349125
Carbon tetrachloride	U		0.00118	0.00546	1	09/20/2019 06:35	WG1349125
Chlorobenzene	U		0.000626	0.00273	1	09/20/2019 06:35	WG1349125
Chlorodibromomethane	U		0.000491	0.00273	1	09/20/2019 06:35	WG1349125
Chloroethane	U		0.00118	0.00546	1	09/20/2019 06:35	WG1349125
Chloroform	0.000567 J	J	0.000453	0.00273	1	09/20/2019 06:35	WG1349125
Chloromethane	U		0.00152	0.0137	1	09/20/2019 06:35	WG1349125
2-Chlorotoluene	U		0.00100	0.00273	1	09/20/2019 06:35	WG1349125
4-Chlorotoluene	U		0.00123	0.00546	1	09/20/2019 06:35	WG1349125
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00557	0.0273	1	09/20/2019 06:35	WG1349125
1,2-Dibromoethane	U		0.000573	0.00273	1	09/20/2019 06:35	WG1349125
Dibromomethane	U		0.00109	0.00546	1	09/20/2019 06:35	WG1349125
1,2-Dichlorobenzene	U		0.00158	0.00546	1	09/20/2019 06:35	WG1349125
1,3-Dichlorobenzene	U		0.00186	0.00546	1	09/20/2019 06:35	WG1349125
1,4-Dichlorobenzene	U		0.00215	0.00546	1	09/20/2019 06:35	WG1349125
Dichlorodifluoromethane	U		0.000893	0.00273	1	09/20/2019 06:35	WG1349125
1,1-Dichloroethane	U		0.000628	0.00273	1	09/20/2019 06:35	WG1349125
1,2-Dichloroethane	U		0.000519	0.00273	1	09/20/2019 06:35	WG1349125
1,1-Dichloroethene	U		0.000546	0.00273	1	09/20/2019 06:35	WG1349125
cis-1,2-Dichloroethene	U		0.000754	0.00273	1	09/20/2019 06:35	WG1349125
trans-1,2-Dichloroethene	U		0.00156	0.00546	1	09/20/2019 06:35	WG1349125
1,2-Dichloropropane	U		0.00139	0.00546	1	09/20/2019 06:35	WG1349125
1,1-Dichloropropene	U		0.000764	0.00273	1	09/20/2019 06:35	WG1349125
1,3-Dichloropropane	U		0.00191	0.00546	1	09/20/2019 06:35	WG1349125
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	09/20/2019 06:35	WG1349125
trans-1,3-Dichloropropene	U		0.00167	0.00546	1	09/20/2019 06:35	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00153	0.00546	1	09/20/2019 06:35	WG1349125
2,2-Dichloropropane	U		0.000866	0.00273	1	09/20/2019 06:35	WG1349125
Di-isopropyl ether	U		0.000382	0.00109	1	09/20/2019 06:35	WG1349125
Ethylbenzene	U		0.000579	0.00273	1	09/20/2019 06:35	WG1349125
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/20/2019 06:35	WG1349125
2-Hexanone	U		0.0109	0.0273	1	09/20/2019 06:35	WG1349125
n-Hexane	U		0.00116	0.00546	1	09/20/2019 06:35	WG1349125
Iodomethane	U		0.00661	0.0137	1	09/20/2019 06:35	WG1349125
Isopropylbenzene	U		0.000942	0.00273	1	09/20/2019 06:35	WG1349125
p-Isopropyltoluene	U		0.00254	0.00546	1	09/20/2019 06:35	WG1349125
2-Butanone (MEK)	0.0240 U	B J	0.0137	0.0273	1	09/20/2019 06:35	WG1349125
Methylene Chloride	0.00819	J	0.00725	0.0273	1	09/20/2019 06:35	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/20/2019 06:35	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	09/20/2019 06:35	WG1349125
Naphthalene	U		0.00341	0.0137	1	09/20/2019 06:35	WG1349125
n-Propylbenzene	U		0.00129	0.00546	1	09/20/2019 06:35	WG1349125
Styrene	U		0.00298	0.0137	1	09/20/2019 06:35	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1	09/20/2019 06:35	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	09/20/2019 06:35	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000737	0.00273	1	09/20/2019 06:35	WG1349125
Tetrachloroethene	U		0.000764	0.00273	1	09/20/2019 06:35	WG1349125
Toluene	0.00601		0.00137	0.00546	1	09/20/2019 06:35	WG1349125
1,2,3-Trichlorobenzene	U		0.000683	0.00273	1	09/20/2019 06:35	WG1349125
1,2,4-Trichlorobenzene	U		0.00526	0.0137	1	09/20/2019 06:35	WG1349125
1,1,1-Trichloroethane	U		0.000300	0.00273	1	09/20/2019 06:35	WG1349125
1,1,2-Trichloroethane	U		0.000964	0.00273	1	09/20/2019 06:35	WG1349125
Trichloroethene	U		0.000437	0.00109	1	09/20/2019 06:35	WG1349125
Trichlorofluoromethane	U		0.000546	0.00273	1	09/20/2019 06:35	WG1349125
1,2,3-Trichloropropane	U		0.00557	0.0137	1	09/20/2019 06:35	WG1349125
1,2,4-Trimethylbenzene	U		0.00127	0.00546	1	09/20/2019 06:35	WG1349125
1,2,3-Trimethylbenzene	U		0.00126	0.00546	1	09/20/2019 06:35	WG1349125
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	09/20/2019 06:35	WG1349125
Vinyl acetate	U		0.00384	0.0137	1	09/20/2019 06:35	WG1349125
Vinyl chloride	U		0.000746	0.00273	1	09/20/2019 06:35	WG1349125
Xylenes, Total	U		0.00522	0.00710	1	09/20/2019 06:35	WG1349125
(S) Toluene-d8	*107*			*75.0-131*		*09/20/2019 06:35*	WG1349125
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*09/20/2019 06:35*	WG1349125
(S) 1,2-Dichloroethane-d4	*96.7*			*70.0-130*		*09/20/2019 06:35*	WG1349125

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	09/19/2019 20:32	WG1349076

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0388		0.0160	0.0292	1	09/20/2019 06:55	WG1349125
Acrylonitrile	U		0.00222	0.0146	1	09/20/2019 06:55	WG1349125
Benzene	0.00362		0.000467	0.00117	1	09/20/2019 06:55	WG1349125
Bromobenzene	U		0.00123	0.0146	1	09/20/2019 06:55	WG1349125
Bromodichloromethane	U		0.000919	0.00292	1	09/20/2019 06:55	WG1349125
Bromochloromethane	U		0.00132	0.00583	1	09/20/2019 06:55	WG1349125
Bromoform	U		0.00698	0.0292	1	09/20/2019 06:55	WG1349125
Bromomethane	U		0.00432	0.0146	1	09/20/2019 06:55	WG1349125
n-Butylbenzene	U		0.00448	0.0146	1	09/20/2019 06:55	WG1349125
sec-Butylbenzene	U		0.00295	0.0146	1	09/20/2019 06:55	WG1349125
tert-Butylbenzene	U		0.00181	0.00583	1	09/20/2019 06:55	WG1349125
Carbon disulfide	0.0117 J	J	0.00474	0.0146	1	09/20/2019 06:55	WG1349125
Carbon tetrachloride	U		0.00126	0.00583	1	09/20/2019 06:55	WG1349125
Chlorobenzene	U		0.000669	0.00292	1	09/20/2019 06:55	WG1349125
Chlorodibromomethane	U		0.000525	0.00292	1	09/20/2019 06:55	WG1349125
Chloroethane	U		0.00126	0.00583	1	09/20/2019 06:55	WG1349125
Chloroform	U		0.000484	0.00292	1	09/20/2019 06:55	WG1349125
Chloromethane	U		0.00162	0.0146	1	09/20/2019 06:55	WG1349125
2-Chlorotoluene	U		0.00107	0.00292	1	09/20/2019 06:55	WG1349125
4-Chlorotoluene	U		0.00132	0.00583	1	09/20/2019 06:55	WG1349125
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00595	0.0292	1	09/20/2019 06:55	WG1349125
1,2-Dibromoethane	U		0.000613	0.00292	1	09/20/2019 06:55	WG1349125
Dibromomethane	U		0.00117	0.00583	1	09/20/2019 06:55	WG1349125
1,2-Dichlorobenzene	U		0.00169	0.00583	1	09/20/2019 06:55	WG1349125
1,3-Dichlorobenzene	U		0.00198	0.00583	1	09/20/2019 06:55	WG1349125
1,4-Dichlorobenzene	U		0.00230	0.00583	1	09/20/2019 06:55	WG1349125
Dichlorodifluoromethane	U		0.000954	0.00292	1	09/20/2019 06:55	WG1349125
1,1-Dichloroethane	U		0.000671	0.00292	1	09/20/2019 06:55	WG1349125
1,2-Dichloroethane	U		0.000554	0.00292	1	09/20/2019 06:55	WG1349125
1,1-Dichloroethene	U		0.000583	0.00292	1	09/20/2019 06:55	WG1349125
cis-1,2-Dichloroethene	U		0.000805	0.00292	1	09/20/2019 06:55	WG1349125
trans-1,2-Dichloroethene	U		0.00167	0.00583	1	09/20/2019 06:55	WG1349125
1,2-Dichloropropane	U		0.00148	0.00583	1	09/20/2019 06:55	WG1349125
1,1-Dichloropropene	U		0.000817	0.00292	1	09/20/2019 06:55	WG1349125
1,3-Dichloropropane	U		0.00204	0.00583	1	09/20/2019 06:55	WG1349125
cis-1,3-Dichloropropene	U		0.000791	0.00292	1	09/20/2019 06:55	WG1349125
trans-1,3-Dichloropropene	U		0.00179	0.00583	1	09/20/2019 06:55	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00163	0.00583	1	09/20/2019 06:55	WG1349125
2,2-Dichloropropane	U		0.000925	0.00292	1	09/20/2019 06:55	WG1349125
Di-isopropyl ether	U		0.000408	0.00117	1	09/20/2019 06:55	WG1349125
Ethylbenzene	U		0.000618	0.00292	1	09/20/2019 06:55	WG1349125
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	09/20/2019 06:55	WG1349125
2-Hexanone	U		0.0117	0.0292	1	09/20/2019 06:55	WG1349125
n-Hexane	U		0.00124	0.00583	1	09/20/2019 06:55	WG1349125
Iodomethane	U		0.00706	0.0146	1	09/20/2019 06:55	WG1349125
Isopropylbenzene	U		0.00101	0.00292	1	09/20/2019 06:55	WG1349125
p-Isopropyltoluene	U		0.00272	0.00583	1	09/20/2019 06:55	WG1349125
2-Butanone (MEK)	0.0229 U	B J	0.0146	0.0292	1	09/20/2019 06:55	WG1349125
Methylene Chloride	U		0.00775	0.0292	1	09/20/2019 06:55	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	09/20/2019 06:55	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	09/20/2019 06:55	WG1349125
Naphthalene	U		0.00364	0.0146	1	09/20/2019 06:55	WG1349125
n-Propylbenzene	U		0.00138	0.00583	1	09/20/2019 06:55	WG1349125
Styrene	U		0.00319	0.0146	1	09/20/2019 06:55	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000583	0.00292	1	09/20/2019 06:55	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000455	0.00292	1	09/20/2019 06:55	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000788	0.00292	1	09/20/2019 06:55	WG1349125
Tetrachloroethene	U		0.000817	0.00292	1	09/20/2019 06:55	WG1349125
Toluene	0.00659		0.00146	0.00583	1	09/20/2019 06:55	WG1349125
1,2,3-Trichlorobenzene	U		0.000729	0.00292	1	09/20/2019 06:55	WG1349125
1,2,4-Trichlorobenzene	U		0.00562	0.0146	1	09/20/2019 06:55	WG1349125
1,1,1-Trichloroethane	U		0.000321	0.00292	1	09/20/2019 06:55	WG1349125
1,1,2-Trichloroethane	U		0.00103	0.00292	1	09/20/2019 06:55	WG1349125
Trichloroethene	U		0.000467	0.00117	1	09/20/2019 06:55	WG1349125
Trichlorofluoromethane	U		0.000583	0.00292	1	09/20/2019 06:55	WG1349125
1,2,3-Trichloropropane	U		0.00595	0.0146	1	09/20/2019 06:55	WG1349125
1,2,4-Trimethylbenzene	U		0.00135	0.00583	1	09/20/2019 06:55	WG1349125
1,2,3-Trimethylbenzene	U		0.00134	0.00583	1	09/20/2019 06:55	WG1349125
1,3,5-Trimethylbenzene	U		0.00126	0.00583	1	09/20/2019 06:55	WG1349125
Vinyl acetate	U		0.00411	0.0146	1	09/20/2019 06:55	WG1349125
Vinyl chloride	U		0.000797	0.00292	1	09/20/2019 06:55	WG1349125
Xylenes, Total	U		0.00558	0.00758	1	09/20/2019 06:55	WG1349125
(S) Toluene-d8	*107*			*75.0-131*		*09/20/2019 06:55*	WG1349125
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*09/20/2019 06:55*	WG1349125
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*09/20/2019 06:55*	WG1349125

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.7		1	09/19/2019 20:32	WG1349076

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0328		0.0162	0.0295	1	09/20/2019 07:17	WG1349125
Acrylonitrile	U		0.00224	0.0148	1	09/20/2019 07:17	WG1349125
Benzene	0.00177		0.000472	0.00118	1	09/20/2019 07:17	WG1349125
Bromobenzene	U		0.00124	0.0148	1	09/20/2019 07:17	WG1349125
Bromodichloromethane	U		0.000930	0.00295	1	09/20/2019 07:17	WG1349125
Bromochloromethane	U		0.00133	0.00590	1	09/20/2019 07:17	WG1349125
Bromoform	U		0.00706	0.0295	1	09/20/2019 07:17	WG1349125
Bromomethane	U		0.00437	0.0148	1	09/20/2019 07:17	WG1349125
n-Butylbenzene	U		0.00453	0.0148	1	09/20/2019 07:17	WG1349125
sec-Butylbenzene	U		0.00299	0.0148	1	09/20/2019 07:17	WG1349125
tert-Butylbenzene	U		0.00183	0.00590	1	09/20/2019 07:17	WG1349125
Carbon disulfide	U		0.00479	0.0148	1	09/20/2019 07:17	WG1349125
Carbon tetrachloride	U		0.00128	0.00590	1	09/20/2019 07:17	WG1349125
Chlorobenzene	U		0.000676	0.00295	1	09/20/2019 07:17	WG1349125
Chlorodibromomethane	U		0.000531	0.00295	1	09/20/2019 07:17	WG1349125
Chloroethane	U		0.00128	0.00590	1	09/20/2019 07:17	WG1349125
Chloroform	U		0.000490	0.00295	1	09/20/2019 07:17	WG1349125
Chloromethane	U		0.00164	0.0148	1	09/20/2019 07:17	WG1349125
2-Chlorotoluene	U		0.00109	0.00295	1	09/20/2019 07:17	WG1349125
4-Chlorotoluene	U		0.00133	0.00590	1	09/20/2019 07:17	WG1349125
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00602	0.0295	1	09/20/2019 07:17	WG1349125
1,2-Dibromoethane	U		0.000620	0.00295	1	09/20/2019 07:17	WG1349125
Dibromomethane	U		0.00118	0.00590	1	09/20/2019 07:17	WG1349125
1,2-Dichlorobenzene	U		0.00171	0.00590	1	09/20/2019 07:17	WG1349125
1,3-Dichlorobenzene	U		0.00201	0.00590	1	09/20/2019 07:17	WG1349125
1,4-Dichlorobenzene	U		0.00233	0.00590	1	09/20/2019 07:17	WG1349125
Dichlorodifluoromethane	U		0.000966	0.00295	1	09/20/2019 07:17	WG1349125
1,1-Dichloroethane	U		0.000679	0.00295	1	09/20/2019 07:17	WG1349125
1,2-Dichloroethane	U		0.000561	0.00295	1	09/20/2019 07:17	WG1349125
1,1-Dichloroethene	U		0.000590	0.00295	1	09/20/2019 07:17	WG1349125
cis-1,2-Dichloroethene	0.0120		0.000815	0.00295	1	09/20/2019 07:17	WG1349125
trans-1,2-Dichloroethene	U		0.00169	0.00590	1	09/20/2019 07:17	WG1349125
1,2-Dichloropropane	U		0.00150	0.00590	1	09/20/2019 07:17	WG1349125
1,1-Dichloropropene	U		0.000826	0.00295	1	09/20/2019 07:17	WG1349125
1,3-Dichloropropane	U		0.00207	0.00590	1	09/20/2019 07:17	WG1349125
cis-1,3-Dichloropropene	U		0.000800	0.00295	1	09/20/2019 07:17	WG1349125
trans-1,3-Dichloropropene	U		0.00181	0.00590	1	09/20/2019 07:17	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00165	0.00590	1	09/20/2019 07:17	WG1349125
2,2-Dichloropropane	U		0.000936	0.00295	1	09/20/2019 07:17	WG1349125
Di-isopropyl ether	U		0.000413	0.00118	1	09/20/2019 07:17	WG1349125
Ethylbenzene	0.00114	J J	0.000626	0.00295	1	09/20/2019 07:17	WG1349125
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	09/20/2019 07:17	WG1349125
2-Hexanone	U		0.0118	0.0295	1	09/20/2019 07:17	WG1349125
n-Hexane	U		0.00125	0.00590	1	09/20/2019 07:17	WG1349125
Iodomethane	U		0.00714	0.0148	1	09/20/2019 07:17	WG1349125
Isopropylbenzene	U		0.00102	0.00295	1	09/20/2019 07:17	WG1349125
p-Isopropyltoluene	U		0.00275	0.00590	1	09/20/2019 07:17	WG1349125
2-Butanone (MEK)	0.0198	U B J	0.0148	0.0295	1	09/20/2019 07:17	WG1349125
Methylene Chloride	U		0.00784	0.0295	1	09/20/2019 07:17	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	09/20/2019 07:17	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000348	0.00118	1	09/20/2019 07:17	WG1349125
Naphthalene	0.0117 J	J	0.00368	0.0148	1	09/20/2019 07:17	WG1349125
n-Propylbenzene	U		0.00139	0.00590	1	09/20/2019 07:17	WG1349125
Styrene	U		0.00322	0.0148	1	09/20/2019 07:17	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000590	0.00295	1	09/20/2019 07:17	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000460	0.00295	1	09/20/2019 07:17	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000797	0.00295	1	09/20/2019 07:17	WG1349125
Tetrachloroethene	U		0.000826	0.00295	1	09/20/2019 07:17	WG1349125
Toluene	0.0111		0.00148	0.00590	1	09/20/2019 07:17	WG1349125
1,2,3-Trichlorobenzene	U		0.000738	0.00295	1	09/20/2019 07:17	WG1349125
1,2,4-Trichlorobenzene	U		0.00569	0.0148	1	09/20/2019 07:17	WG1349125
1,1,1-Trichloroethane	U		0.000325	0.00295	1	09/20/2019 07:17	WG1349125
1,1,2-Trichloroethane	U		0.00104	0.00295	1	09/20/2019 07:17	WG1349125
Trichloroethene	U		0.000472	0.00118	1	09/20/2019 07:17	WG1349125
Trichlorofluoromethane	U		0.000590	0.00295	1	09/20/2019 07:17	WG1349125
1,2,3-Trichloropropane	U		0.00602	0.0148	1	09/20/2019 07:17	WG1349125
1,2,4-Trimethylbenzene	0.00208 J	J	0.00137	0.00590	1	09/20/2019 07:17	WG1349125
1,2,3-Trimethylbenzene	0.00136 J	J	0.00136	0.00590	1	09/20/2019 07:17	WG1349125
1,3,5-Trimethylbenzene	U		0.00128	0.00590	1	09/20/2019 07:17	WG1349125
Vinyl acetate	U		0.00416	0.0148	1	09/20/2019 07:17	WG1349125
Vinyl chloride	U		0.000806	0.00295	1	09/20/2019 07:17	WG1349125
Xylenes, Total	0.00688 J	J	0.00564	0.00767	1	09/20/2019 07:17	WG1349125
(S) Toluene-d8	*107*			*75.0-131*		*09/20/2019 07:17*	WG1349125
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*09/20/2019 07:17*	WG1349125
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*09/20/2019 07:17*	WG1349125

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.0		1	09/19/2019 20:32	WG1349076

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0418		0.0169	0.0307	1.02	09/20/2019 07:38	WG1349125
Acrylonitrile	U		0.00234	0.0154	1.02	09/20/2019 07:38	WG1349125
Benzene	U		0.000492	0.00123	1.02	09/20/2019 07:38	WG1349125
Bromobenzene	U		0.00129	0.0154	1.02	09/20/2019 07:38	WG1349125
Bromodichloromethane	U		0.000969	0.00307	1.02	09/20/2019 07:38	WG1349125
Bromochloromethane	U		0.00139	0.00615	1.02	09/20/2019 07:38	WG1349125
Bromoform	U		0.00735	0.0307	1.02	09/20/2019 07:38	WG1349125
Bromomethane	U		0.00454	0.0154	1.02	09/20/2019 07:38	WG1349125
n-Butylbenzene	U		0.00472	0.0154	1.02	09/20/2019 07:38	WG1349125
sec-Butylbenzene	U		0.00311	0.0154	1.02	09/20/2019 07:38	WG1349125
tert-Butylbenzene	U		0.00190	0.00615	1.02	09/20/2019 07:38	WG1349125
Carbon disulfide	U		0.00499	0.0154	1.02	09/20/2019 07:38	WG1349125
Carbon tetrachloride	U		0.00133	0.00615	1.02	09/20/2019 07:38	WG1349125
Chlorobenzene	U		0.000704	0.00307	1.02	09/20/2019 07:38	WG1349125
Chlorodibromomethane	U		0.000553	0.00307	1.02	09/20/2019 07:38	WG1349125
Chloroethane	U		0.00133	0.00615	1.02	09/20/2019 07:38	WG1349125
Chloroform	0.00112	J	0.000510	0.00307	1.02	09/20/2019 07:38	WG1349125
Chloromethane	U		0.00171	0.0154	1.02	09/20/2019 07:38	WG1349125
2-Chlorotoluene	U		0.00113	0.00307	1.02	09/20/2019 07:38	WG1349125
4-Chlorotoluene	U		0.00139	0.00615	1.02	09/20/2019 07:38	WG1349125
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00627	0.0307	1.02	09/20/2019 07:38	WG1349125
1,2-Dibromoethane	U		0.000646	0.00307	1.02	09/20/2019 07:38	WG1349125
Dibromomethane	U		0.00123	0.00615	1.02	09/20/2019 07:38	WG1349125
1,2-Dichlorobenzene	U		0.00178	0.00615	1.02	09/20/2019 07:38	WG1349125
1,3-Dichlorobenzene	U		0.00208	0.00615	1.02	09/20/2019 07:38	WG1349125
1,4-Dichlorobenzene	U		0.00242	0.00615	1.02	09/20/2019 07:38	WG1349125
Dichlorodifluoromethane	U		0.00100	0.00307	1.02	09/20/2019 07:38	WG1349125
1,1-Dichloroethane	U		0.000706	0.00307	1.02	09/20/2019 07:38	WG1349125
1,2-Dichloroethane	U		0.000583	0.00307	1.02	09/20/2019 07:38	WG1349125
1,1-Dichloroethene	U		0.000615	0.00307	1.02	09/20/2019 07:38	WG1349125
cis-1,2-Dichloroethene	0.0354		0.000848	0.00307	1.02	09/20/2019 07:38	WG1349125
trans-1,2-Dichloroethene	U		0.00176	0.00615	1.02	09/20/2019 07:38	WG1349125
1,2-Dichloropropane	U		0.00157	0.00615	1.02	09/20/2019 07:38	WG1349125
1,1-Dichloropropene	U		0.000860	0.00307	1.02	09/20/2019 07:38	WG1349125
1,3-Dichloropropane	U		0.00214	0.00615	1.02	09/20/2019 07:38	WG1349125
cis-1,3-Dichloropropene	U		0.000834	0.00307	1.02	09/20/2019 07:38	WG1349125
trans-1,3-Dichloropropene	U		0.00188	0.00615	1.02	09/20/2019 07:38	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00172	0.00615	1.02	09/20/2019 07:38	WG1349125
2,2-Dichloropropane	U		0.000975	0.00307	1.02	09/20/2019 07:38	WG1349125
Di-isopropyl ether	U		0.000430	0.00123	1.02	09/20/2019 07:38	WG1349125
Ethylbenzene	U		0.000652	0.00307	1.02	09/20/2019 07:38	WG1349125
Hexachloro-1,3-butadiene	U		0.0157	0.0307	1.02	09/20/2019 07:38	WG1349125
2-Hexanone	U		0.0123	0.0307	1.02	09/20/2019 07:38	WG1349125
n-Hexane	U		0.00130	0.00615	1.02	09/20/2019 07:38	WG1349125
Iodomethane	U		0.00744	0.0154	1.02	09/20/2019 07:38	WG1349125
Isopropylbenzene	U		0.00106	0.00307	1.02	09/20/2019 07:38	WG1349125
p-Isopropyltoluene	U		0.00287	0.00615	1.02	09/20/2019 07:38	WG1349125
2-Butanone (MEK)	0.0253	U B J	0.0154	0.0307	1.02	09/20/2019 07:38	WG1349125
Methylene Chloride	0.00986	J	0.00816	0.0307	1.02	09/20/2019 07:38	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0307	1.02	09/20/2019 07:38	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000363	0.00123	1.02	09/20/2019 07:38	WG1349125
Naphthalene	U		0.00383	0.0154	1.02	09/20/2019 07:38	WG1349125
n-Propylbenzene	U		0.00145	0.00615	1.02	09/20/2019 07:38	WG1349125
Styrene	U		0.00335	0.0154	1.02	09/20/2019 07:38	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000615	0.00307	1.02	09/20/2019 07:38	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000480	0.00307	1.02	09/20/2019 07:38	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000829	0.00307	1.02	09/20/2019 07:38	WG1349125
Tetrachloroethene	U		0.000860	0.00307	1.02	09/20/2019 07:38	WG1349125
Toluene	0.0128		0.00154	0.00615	1.02	09/20/2019 07:38	WG1349125
1,2,3-Trichlorobenzene	U		0.000769	0.00307	1.02	09/20/2019 07:38	WG1349125
1,2,4-Trichlorobenzene	U		0.00593	0.0154	1.02	09/20/2019 07:38	WG1349125
1,1,1-Trichloroethane	U		0.000337	0.00307	1.02	09/20/2019 07:38	WG1349125
1,1,2-Trichloroethane	U		0.00109	0.00307	1.02	09/20/2019 07:38	WG1349125
Trichloroethene	U		0.000492	0.00123	1.02	09/20/2019 07:38	WG1349125
Trichlorofluoromethane	U		0.000615	0.00307	1.02	09/20/2019 07:38	WG1349125
1,2,3-Trichloropropane	U		0.00627	0.0154	1.02	09/20/2019 07:38	WG1349125
1,2,4-Trimethylbenzene	U		0.00142	0.00615	1.02	09/20/2019 07:38	WG1349125
1,2,3-Trimethylbenzene	U		0.00141	0.00615	1.02	09/20/2019 07:38	WG1349125
1,3,5-Trimethylbenzene	U		0.00133	0.00615	1.02	09/20/2019 07:38	WG1349125
Vinyl acetate	U		0.00433	0.0154	1.02	09/20/2019 07:38	WG1349125
Vinyl chloride	U		0.000840	0.00307	1.02	09/20/2019 07:38	WG1349125
Xylenes, Total	U		0.00588	0.00799	1.02	09/20/2019 07:38	WG1349125
(S) Toluene-d8	*105*			*75.0-131*		*09/20/2019 07:38*	WG1349125
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*09/20/2019 07:38*	WG1349125
(S) 1,2-Dichloroethane-d4	*96.7*			*70.0-130*		*09/20/2019 07:38*	WG1349125

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.8		1	09/19/2019 20:32	WG1349076

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0249	J	0.0164	0.0298	1	09/20/2019 07:59	WG1349125
Acrylonitrile	U		0.00227	0.0149	1	09/20/2019 07:59	WG1349125
Benzene	U		0.000478	0.00119	1	09/20/2019 07:59	WG1349125
Bromobenzene	U		0.00125	0.0149	1	09/20/2019 07:59	WG1349125
Bromodichloromethane	U		0.000941	0.00298	1	09/20/2019 07:59	WG1349125
Bromochloromethane	U		0.00135	0.00597	1	09/20/2019 07:59	WG1349125
Bromoform	U		0.00714	0.0298	1	09/20/2019 07:59	WG1349125
Bromomethane	U		0.00442	0.0149	1	09/20/2019 07:59	WG1349125
n-Butylbenzene	U		0.00458	0.0149	1	09/20/2019 07:59	WG1349125
sec-Butylbenzene	U		0.00302	0.0149	1	09/20/2019 07:59	WG1349125
tert-Butylbenzene	U		0.00185	0.00597	1	09/20/2019 07:59	WG1349125
Carbon disulfide	U		0.00485	0.0149	1	09/20/2019 07:59	WG1349125
Carbon tetrachloride	U		0.00129	0.00597	1	09/20/2019 07:59	WG1349125
Chlorobenzene	U		0.000684	0.00298	1	09/20/2019 07:59	WG1349125
Chlorodibromomethane	U		0.000537	0.00298	1	09/20/2019 07:59	WG1349125
Chloroethane	U		0.00129	0.00597	1	09/20/2019 07:59	WG1349125
Chloroform	U		0.000495	0.00298	1	09/20/2019 07:59	WG1349125
Chloromethane	U		0.00166	0.0149	1	09/20/2019 07:59	WG1349125
2-Chlorotoluene	U		0.00110	0.00298	1	09/20/2019 07:59	WG1349125
4-Chlorotoluene	U		0.00135	0.00597	1	09/20/2019 07:59	WG1349125
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00609	0.0298	1	09/20/2019 07:59	WG1349125
1,2-Dibromoethane	U		0.000627	0.00298	1	09/20/2019 07:59	WG1349125
Dibromomethane	U		0.00119	0.00597	1	09/20/2019 07:59	WG1349125
1,2-Dichlorobenzene	U		0.00173	0.00597	1	09/20/2019 07:59	WG1349125
1,3-Dichlorobenzene	U		0.00203	0.00597	1	09/20/2019 07:59	WG1349125
1,4-Dichlorobenzene	U		0.00235	0.00597	1	09/20/2019 07:59	WG1349125
Dichlorodifluoromethane	U		0.000977	0.00298	1	09/20/2019 07:59	WG1349125
1,1-Dichloroethane	U		0.000686	0.00298	1	09/20/2019 07:59	WG1349125
1,2-Dichloroethane	U		0.000567	0.00298	1	09/20/2019 07:59	WG1349125
1,1-Dichloroethene	U		0.000597	0.00298	1	09/20/2019 07:59	WG1349125
cis-1,2-Dichloroethene	0.000860	J	0.000824	0.00298	1	09/20/2019 07:59	WG1349125
trans-1,2-Dichloroethene	U		0.00171	0.00597	1	09/20/2019 07:59	WG1349125
1,2-Dichloropropane	U		0.00152	0.00597	1	09/20/2019 07:59	WG1349125
1,1-Dichloropropene	U		0.000836	0.00298	1	09/20/2019 07:59	WG1349125
1,3-Dichloropropane	U		0.00209	0.00597	1	09/20/2019 07:59	WG1349125
cis-1,3-Dichloropropene	U		0.000809	0.00298	1	09/20/2019 07:59	WG1349125
trans-1,3-Dichloropropene	U		0.00183	0.00597	1	09/20/2019 07:59	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00167	0.00597	1	09/20/2019 07:59	WG1349125
2,2-Dichloropropane	U		0.000947	0.00298	1	09/20/2019 07:59	WG1349125
Di-isopropyl ether	U		0.000418	0.00119	1	09/20/2019 07:59	WG1349125
Ethylbenzene	U		0.000633	0.00298	1	09/20/2019 07:59	WG1349125
Hexachloro-1,3-butadiene	U		0.0152	0.0298	1	09/20/2019 07:59	WG1349125
2-Hexanone	U		0.0119	0.0298	1	09/20/2019 07:59	WG1349125
n-Hexane	U		0.00127	0.00597	1	09/20/2019 07:59	WG1349125
Iodomethane	U		0.00722	0.0149	1	09/20/2019 07:59	WG1349125
Isopropylbenzene	U		0.00103	0.00298	1	09/20/2019 07:59	WG1349125
p-Isopropyltoluene	U		0.00278	0.00597	1	09/20/2019 07:59	WG1349125
2-Butanone (MEK)	0.0229 U	B J	0.0149	0.0298	1	09/20/2019 07:59	WG1349125
Methylene Chloride	U		0.00793	0.0298	1	09/20/2019 07:59	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	09/20/2019 07:59	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	09/20/2019 07:59	WG1349125
Naphthalene	U		0.00372	0.0149	1	09/20/2019 07:59	WG1349125
n-Propylbenzene	U		0.00141	0.00597	1	09/20/2019 07:59	WG1349125
Styrene	U		0.00326	0.0149	1	09/20/2019 07:59	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000597	0.00298	1	09/20/2019 07:59	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000466	0.00298	1	09/20/2019 07:59	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000806	0.00298	1	09/20/2019 07:59	WG1349125
Tetrachloroethene	U		0.000836	0.00298	1	09/20/2019 07:59	WG1349125
Toluene	0.00528	J	0.00149	0.00597	1	09/20/2019 07:59	WG1349125
1,2,3-Trichlorobenzene	U		0.000746	0.00298	1	09/20/2019 07:59	WG1349125
1,2,4-Trichlorobenzene	U		0.00575	0.0149	1	09/20/2019 07:59	WG1349125
1,1,1-Trichloroethane	U		0.000328	0.00298	1	09/20/2019 07:59	WG1349125
1,1,2-Trichloroethane	U		0.00105	0.00298	1	09/20/2019 07:59	WG1349125
Trichloroethene	U		0.000478	0.00119	1	09/20/2019 07:59	WG1349125
Trichlorofluoromethane	U		0.000597	0.00298	1	09/20/2019 07:59	WG1349125
1,2,3-Trichloropropane	U		0.00609	0.0149	1	09/20/2019 07:59	WG1349125
1,2,4-Trimethylbenzene	U		0.00138	0.00597	1	09/20/2019 07:59	WG1349125
1,2,3-Trimethylbenzene	U		0.00137	0.00597	1	09/20/2019 07:59	WG1349125
1,3,5-Trimethylbenzene	U		0.00129	0.00597	1	09/20/2019 07:59	WG1349125
Vinyl acetate	U		0.00420	0.0149	1	09/20/2019 07:59	WG1349125
Vinyl chloride	U		0.000815	0.00298	1	09/20/2019 07:59	WG1349125
Xylenes, Total	U		0.00571	0.00776	1	09/20/2019 07:59	WG1349125
(S) Toluene-d8	*107*			*75.0-131*		*09/20/2019 07:59*	WG1349125
(S) 4-Bromofluorobenzene	*99.0*			*67.0-138*		*09/20/2019 07:59*	WG1349125
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*09/20/2019 07:59*	WG1349125

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.7		1	09/19/2019 20:32	WG1349076

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0299	J	0.0166	0.0302	1	09/20/2019 08:21	WG1349125
Acrylonitrile	U		0.00230	0.0151	1	09/20/2019 08:21	WG1349125
Benzene	U		0.000483	0.00121	1	09/20/2019 08:21	WG1349125
Bromobenzene	U		0.00127	0.0151	1	09/20/2019 08:21	WG1349125
Bromodichloromethane	U		0.000952	0.00302	1	09/20/2019 08:21	WG1349125
Bromochloromethane	U		0.00137	0.00604	1	09/20/2019 08:21	WG1349125
Bromoform	U		0.00723	0.0302	1	09/20/2019 08:21	WG1349125
Bromomethane	U		0.00447	0.0151	1	09/20/2019 08:21	WG1349125
n-Butylbenzene	U		0.00464	0.0151	1	09/20/2019 08:21	WG1349125
sec-Butylbenzene	U		0.00306	0.0151	1	09/20/2019 08:21	WG1349125
tert-Butylbenzene	U		0.00187	0.00604	1	09/20/2019 08:21	WG1349125
Carbon disulfide	U		0.00491	0.0151	1	09/20/2019 08:21	WG1349125
Carbon tetrachloride	U		0.00131	0.00604	1	09/20/2019 08:21	WG1349125
Chlorobenzene	U		0.000693	0.00302	1	09/20/2019 08:21	WG1349125
Chlorodibromomethane	U		0.000544	0.00302	1	09/20/2019 08:21	WG1349125
Chloroethane	U		0.00131	0.00604	1	09/20/2019 08:21	WG1349125
Chloroform	U		0.000502	0.00302	1	09/20/2019 08:21	WG1349125
Chloromethane	U		0.00168	0.0151	1	09/20/2019 08:21	WG1349125
2-Chlorotoluene	U		0.00111	0.00302	1	09/20/2019 08:21	WG1349125
4-Chlorotoluene	U		0.00137	0.00604	1	09/20/2019 08:21	WG1349125
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00616	0.0302	1	09/20/2019 08:21	WG1349125
1,2-Dibromoethane	U		0.000635	0.00302	1	09/20/2019 08:21	WG1349125
Dibromomethane	U		0.00121	0.00604	1	09/20/2019 08:21	WG1349125
1,2-Dichlorobenzene	U		0.00175	0.00604	1	09/20/2019 08:21	WG1349125
1,3-Dichlorobenzene	U		0.00205	0.00604	1	09/20/2019 08:21	WG1349125
1,4-Dichlorobenzene	U		0.00238	0.00604	1	09/20/2019 08:21	WG1349125
Dichlorodifluoromethane	U		0.000989	0.00302	1	09/20/2019 08:21	WG1349125
1,1-Dichloroethane	U		0.000695	0.00302	1	09/20/2019 08:21	WG1349125
1,2-Dichloroethane	U		0.000574	0.00302	1	09/20/2019 08:21	WG1349125
1,1-Dichloroethene	U		0.000604	0.00302	1	09/20/2019 08:21	WG1349125
cis-1,2-Dichloroethene	U		0.000834	0.00302	1	09/20/2019 08:21	WG1349125
trans-1,2-Dichloroethene	U		0.00173	0.00604	1	09/20/2019 08:21	WG1349125
1,2-Dichloropropane	U		0.00153	0.00604	1	09/20/2019 08:21	WG1349125
1,1-Dichloropropene	U		0.000846	0.00302	1	09/20/2019 08:21	WG1349125
1,3-Dichloropropane	U		0.00212	0.00604	1	09/20/2019 08:21	WG1349125
cis-1,3-Dichloropropene	U		0.000819	0.00302	1	09/20/2019 08:21	WG1349125
trans-1,3-Dichloropropene	U		0.00185	0.00604	1	09/20/2019 08:21	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00169	0.00604	1	09/20/2019 08:21	WG1349125
2,2-Dichloropropane	U		0.000958	0.00302	1	09/20/2019 08:21	WG1349125
Di-isopropyl ether	U		0.000423	0.00121	1	09/20/2019 08:21	WG1349125
Ethylbenzene	U		0.000641	0.00302	1	09/20/2019 08:21	WG1349125
Hexachloro-1,3-butadiene	U		0.0153	0.0302	1	09/20/2019 08:21	WG1349125
2-Hexanone	U		0.0121	0.0302	1	09/20/2019 08:21	WG1349125
n-Hexane	U		0.00128	0.00604	1	09/20/2019 08:21	WG1349125
Iodomethane	U		0.00731	0.0151	1	09/20/2019 08:21	WG1349125
Isopropylbenzene	U		0.00104	0.00302	1	09/20/2019 08:21	WG1349125
p-Isopropyltoluene	U		0.00282	0.00604	1	09/20/2019 08:21	WG1349125
2-Butanone (MEK)	0.0232	U B J	0.0151	0.0302	1	09/20/2019 08:21	WG1349125
Methylene Chloride	0.00821	J	0.00803	0.0302	1	09/20/2019 08:21	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0302	1	09/20/2019 08:21	WG1349125

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000357	0.00121	1	09/20/2019 08:21	WG1349125
Naphthalene	U		0.00377	0.0151	1	09/20/2019 08:21	WG1349125
n-Propylbenzene	U		0.00143	0.00604	1	09/20/2019 08:21	WG1349125
Styrene	U		0.00330	0.0151	1	09/20/2019 08:21	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000604	0.00302	1	09/20/2019 08:21	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000471	0.00302	1	09/20/2019 08:21	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000816	0.00302	1	09/20/2019 08:21	WG1349125
Tetrachloroethene	U		0.000846	0.00302	1	09/20/2019 08:21	WG1349125
Toluene	0.00569	J	0.00151	0.00604	1	09/20/2019 08:21	WG1349125
1,2,3-Trichlorobenzene	U		0.000755	0.00302	1	09/20/2019 08:21	WG1349125
1,2,4-Trichlorobenzene	U		0.00583	0.0151	1	09/20/2019 08:21	WG1349125
1,1,1-Trichloroethane	U		0.000332	0.00302	1	09/20/2019 08:21	WG1349125
1,1,2-Trichloroethane	U		0.00107	0.00302	1	09/20/2019 08:21	WG1349125
Trichloroethene	U		0.000483	0.00121	1	09/20/2019 08:21	WG1349125
Trichlorofluoromethane	U		0.000604	0.00302	1	09/20/2019 08:21	WG1349125
1,2,3-Trichloropropane	U		0.00616	0.0151	1	09/20/2019 08:21	WG1349125
1,2,4-Trimethylbenzene	U		0.00140	0.00604	1	09/20/2019 08:21	WG1349125
1,2,3-Trimethylbenzene	U		0.00139	0.00604	1	09/20/2019 08:21	WG1349125
1,3,5-Trimethylbenzene	U		0.00131	0.00604	1	09/20/2019 08:21	WG1349125
Vinyl acetate	U		0.00425	0.0151	1	09/20/2019 08:21	WG1349125
Vinyl chloride	U		0.000826	0.00302	1	09/20/2019 08:21	WG1349125
Xylenes, Total	U		0.00578	0.00786	1	09/20/2019 08:21	WG1349125
(S) Toluene-d8	*106*			*75.0-131*		*09/20/2019 08:21*	WG1349125
(S) 4-Bromofluorobenzene	*95.3*			*67.0-138*		*09/20/2019 08:21*	WG1349125
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*		*09/20/2019 08:21*	WG1349125

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.4		1	09/19/2019 20:32	WG1349076

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0383		0.0172	0.0315	1	09/20/2019 08:42	WG1349125
Acrylonitrile	U		0.00239	0.0157	1	09/20/2019 08:42	WG1349125
Benzene	U		0.000503	0.00126	1	09/20/2019 08:42	WG1349125
Bromobenzene	U		0.00132	0.0157	1	09/20/2019 08:42	WG1349125
Bromodichloromethane	U		0.000992	0.00315	1	09/20/2019 08:42	WG1349125
Bromochloromethane	U		0.00142	0.00629	1	09/20/2019 08:42	WG1349125
Bromoform	U		0.00753	0.0315	1	09/20/2019 08:42	WG1349125
Bromomethane	U		0.00466	0.0157	1	09/20/2019 08:42	WG1349125
n-Butylbenzene	U		0.00483	0.0157	1	09/20/2019 08:42	WG1349125
sec-Butylbenzene	U		0.00318	0.0157	1	09/20/2019 08:42	WG1349125
tert-Butylbenzene	U		0.00195	0.00629	1	09/20/2019 08:42	WG1349125
Carbon disulfide	U		0.00511	0.0157	1	09/20/2019 08:42	WG1349125
Carbon tetrachloride	U		0.00136	0.00629	1	09/20/2019 08:42	WG1349125
Chlorobenzene	U		0.000721	0.00315	1	09/20/2019 08:42	WG1349125
Chlorodibromomethane	U		0.000566	0.00315	1	09/20/2019 08:42	WG1349125
Chloroethane	U		0.00136	0.00629	1	09/20/2019 08:42	WG1349125
Chloroform	U		0.000522	0.00315	1	09/20/2019 08:42	WG1349125
Chloromethane	U		0.00175	0.0157	1	09/20/2019 08:42	WG1349125
2-Chlorotoluene	U		0.00116	0.00315	1	09/20/2019 08:42	WG1349125
4-Chlorotoluene	U		0.00142	0.00629	1	09/20/2019 08:42	WG1349125
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00642	0.0315	1	09/20/2019 08:42	WG1349125
1,2-Dibromoethane	U		0.000661	0.00315	1	09/20/2019 08:42	WG1349125
Dibromomethane	U		0.00126	0.00629	1	09/20/2019 08:42	WG1349125
1,2-Dichlorobenzene	U		0.00183	0.00629	1	09/20/2019 08:42	WG1349125
1,3-Dichlorobenzene	U		0.00214	0.00629	1	09/20/2019 08:42	WG1349125
1,4-Dichlorobenzene	U		0.00248	0.00629	1	09/20/2019 08:42	WG1349125
Dichlorodifluoromethane	U		0.00103	0.00315	1	09/20/2019 08:42	WG1349125
1,1-Dichloroethane	U		0.000724	0.00315	1	09/20/2019 08:42	WG1349125
1,2-Dichloroethane	U		0.000598	0.00315	1	09/20/2019 08:42	WG1349125
1,1-Dichloroethene	U		0.000629	0.00315	1	09/20/2019 08:42	WG1349125
cis-1,2-Dichloroethene	0.00905		0.000868	0.00315	1	09/20/2019 08:42	WG1349125
trans-1,2-Dichloroethene	U		0.00180	0.00629	1	09/20/2019 08:42	WG1349125
1,2-Dichloropropane	U		0.00160	0.00629	1	09/20/2019 08:42	WG1349125
1,1-Dichloropropene	U		0.000881	0.00315	1	09/20/2019 08:42	WG1349125
1,3-Dichloropropane	U		0.00220	0.00629	1	09/20/2019 08:42	WG1349125
cis-1,3-Dichloropropene	U		0.000853	0.00315	1	09/20/2019 08:42	WG1349125
trans-1,3-Dichloropropene	U		0.00193	0.00629	1	09/20/2019 08:42	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00176	0.00629	1	09/20/2019 08:42	WG1349125
2,2-Dichloropropane	U		0.000998	0.00315	1	09/20/2019 08:42	WG1349125
Di-isopropyl ether	U		0.000441	0.00126	1	09/20/2019 08:42	WG1349125
Ethylbenzene	U		0.000667	0.00315	1	09/20/2019 08:42	WG1349125
Hexachloro-1,3-butadiene	U		0.0160	0.0315	1	09/20/2019 08:42	WG1349125
2-Hexanone	U		0.0126	0.0315	1	09/20/2019 08:42	WG1349125
n-Hexane	0.0128		0.00133	0.00629	1	09/20/2019 08:42	WG1349125
Iodomethane	U		0.00762	0.0157	1	09/20/2019 08:42	WG1349125
Isopropylbenzene	U		0.00109	0.00315	1	09/20/2019 08:42	WG1349125
p-Isopropyltoluene	U		0.00293	0.00629	1	09/20/2019 08:42	WG1349125
2-Butanone (MEK)	0.0283 U	B J	0.0157	0.0315	1	09/20/2019 08:42	WG1349125
Methylene Chloride	0.00943	J	0.00836	0.0315	1	09/20/2019 08:42	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0126	0.0315	1	09/20/2019 08:42	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000371	0.00126	1	09/20/2019 08:42	WG1349125
Naphthalene	U		0.00393	0.0157	1	09/20/2019 08:42	WG1349125
n-Propylbenzene	U		0.00149	0.00629	1	09/20/2019 08:42	WG1349125
Styrene	U		0.00344	0.0157	1	09/20/2019 08:42	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000629	0.00315	1	09/20/2019 08:42	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000491	0.00315	1	09/20/2019 08:42	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000850	0.00315	1	09/20/2019 08:42	WG1349125
Tetrachloroethene	U		0.000881	0.00315	1	09/20/2019 08:42	WG1349125
Toluene	0.00913		0.00157	0.00629	1	09/20/2019 08:42	WG1349125
1,2,3-Trichlorobenzene	U		0.000787	0.00315	1	09/20/2019 08:42	WG1349125
1,2,4-Trichlorobenzene	U		0.00607	0.0157	1	09/20/2019 08:42	WG1349125
1,1,1-Trichloroethane	U		0.000346	0.00315	1	09/20/2019 08:42	WG1349125
1,1,2-Trichloroethane	U		0.00111	0.00315	1	09/20/2019 08:42	WG1349125
Trichloroethene	U		0.000503	0.00126	1	09/20/2019 08:42	WG1349125
Trichlorofluoromethane	U		0.000629	0.00315	1	09/20/2019 08:42	WG1349125
1,2,3-Trichloropropane	U		0.00642	0.0157	1	09/20/2019 08:42	WG1349125
1,2,4-Trimethylbenzene	U		0.00146	0.00629	1	09/20/2019 08:42	WG1349125
1,2,3-Trimethylbenzene	U		0.00145	0.00629	1	09/20/2019 08:42	WG1349125
1,3,5-Trimethylbenzene	U		0.00136	0.00629	1	09/20/2019 08:42	WG1349125
Vinyl acetate	U		0.00443	0.0157	1	09/20/2019 08:42	WG1349125
Vinyl chloride	U		0.000860	0.00315	1	09/20/2019 08:42	WG1349125
Xylenes, Total	U		0.00602	0.00818	1	09/20/2019 08:42	WG1349125
(S) Toluene-d8	*107*			*75.0-131*		*09/20/2019 08:42*	WG1349125
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*09/20/2019 08:42*	WG1349125
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*09/20/2019 08:42*	WG1349125

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0237	J	0.0137	0.0250	1	09/20/2019 09:03	WG1349125
Acrylonitrile	U		0.00190	0.0125	1	09/20/2019 09:03	WG1349125
Benzene	U		0.000400	0.00100	1	09/20/2019 09:03	WG1349125
Bromobenzene	U		0.00105	0.0125	1	09/20/2019 09:03	WG1349125
Bromodichloromethane	U		0.000788	0.00250	1	09/20/2019 09:03	WG1349125
Bromochloromethane	U		0.00113	0.00500	1	09/20/2019 09:03	WG1349125
Bromoform	U		0.00598	0.0250	1	09/20/2019 09:03	WG1349125
Bromomethane	U		0.00370	0.0125	1	09/20/2019 09:03	WG1349125
n-Butylbenzene	U		0.00384	0.0125	1	09/20/2019 09:03	WG1349125
sec-Butylbenzene	U		0.00253	0.0125	1	09/20/2019 09:03	WG1349125
tert-Butylbenzene	U		0.00155	0.00500	1	09/20/2019 09:03	WG1349125
Carbon disulfide	U		0.00406	0.0125	1	09/20/2019 09:03	WG1349125
Carbon tetrachloride	U		0.00108	0.00500	1	09/20/2019 09:03	WG1349125
Chlorobenzene	U		0.000573	0.00250	1	09/20/2019 09:03	WG1349125
Chlorodibromomethane	U		0.000450	0.00250	1	09/20/2019 09:03	WG1349125
Chloroethane	U		0.00108	0.00500	1	09/20/2019 09:03	WG1349125
Chloroform	U		0.000415	0.00250	1	09/20/2019 09:03	WG1349125
Chloromethane	U		0.00139	0.0125	1	09/20/2019 09:03	WG1349125
2-Chlorotoluene	U		0.000920	0.00250	1	09/20/2019 09:03	WG1349125
4-Chlorotoluene	U		0.00113	0.00500	1	09/20/2019 09:03	WG1349125
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00510	0.0250	1	09/20/2019 09:03	WG1349125
1,2-Dibromoethane	U		0.000525	0.00250	1	09/20/2019 09:03	WG1349125
Dibromomethane	U		0.00100	0.00500	1	09/20/2019 09:03	WG1349125
1,2-Dichlorobenzene	U		0.00145	0.00500	1	09/20/2019 09:03	WG1349125
1,3-Dichlorobenzene	U		0.00170	0.00500	1	09/20/2019 09:03	WG1349125
1,4-Dichlorobenzene	U		0.00197	0.00500	1	09/20/2019 09:03	WG1349125
Dichlorodifluoromethane	U		0.000818	0.00250	1	09/20/2019 09:03	WG1349125
1,1-Dichloroethane	U		0.000575	0.00250	1	09/20/2019 09:03	WG1349125
1,2-Dichloroethane	U		0.000475	0.00250	1	09/20/2019 09:03	WG1349125
1,1-Dichloroethene	U		0.000500	0.00250	1	09/20/2019 09:03	WG1349125
cis-1,2-Dichloroethene	U		0.000690	0.00250	1	09/20/2019 09:03	WG1349125
trans-1,2-Dichloroethene	U		0.00143	0.00500	1	09/20/2019 09:03	WG1349125
1,2-Dichloropropane	U		0.00127	0.00500	1	09/20/2019 09:03	WG1349125
1,1-Dichloropropene	U		0.000700	0.00250	1	09/20/2019 09:03	WG1349125
1,3-Dichloropropane	U		0.00175	0.00500	1	09/20/2019 09:03	WG1349125
cis-1,3-Dichloropropene	U		0.000678	0.00250	1	09/20/2019 09:03	WG1349125
trans-1,3-Dichloropropene	U		0.00153	0.00500	1	09/20/2019 09:03	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500	1	09/20/2019 09:03	WG1349125
2,2-Dichloropropane	U		0.000793	0.00250	1	09/20/2019 09:03	WG1349125
Di-isopropyl ether	U		0.000350	0.00100	1	09/20/2019 09:03	WG1349125
Ethylbenzene	U		0.000530	0.00250	1	09/20/2019 09:03	WG1349125
Hexachloro-1,3-butadiene	U		0.0127	0.0250	1	09/20/2019 09:03	WG1349125
2-Hexanone	U		0.0100	0.0250	1	09/20/2019 09:03	WG1349125
n-Hexane	U		0.00106	0.00500	1	09/20/2019 09:03	WG1349125
Iodomethane	U		0.00605	0.0125	1	09/20/2019 09:03	WG1349125
Isopropylbenzene	U		0.000863	0.00250	1	09/20/2019 09:03	WG1349125
p-Isopropyltoluene	U		0.00233	0.00500	1	09/20/2019 09:03	WG1349125
2-Butanone (MEK)	0.0187 U	B J	0.0125	0.0250	1	09/20/2019 09:03	WG1349125
Methylene Chloride	U		0.00664	0.0250	1	09/20/2019 09:03	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250	1	09/20/2019 09:03	WG1349125
Methyl tert-butyl ether	U		0.000295	0.00100	1	09/20/2019 09:03	WG1349125
Naphthalene	U		0.00312	0.0125	1	09/20/2019 09:03	WG1349125
n-Propylbenzene	U		0.00118	0.00500	1	09/20/2019 09:03	WG1349125
Styrene	U		0.00273	0.0125	1	09/20/2019 09:03	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250	1	09/20/2019 09:03	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250	1	09/20/2019 09:03	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250	1	09/20/2019 09:03	WG1349125
Tetrachloroethene	U		0.000700	0.00250	1	09/20/2019 09:03	WG1349125
Toluene	0.00369	J	0.00125	0.00500	1	09/20/2019 09:03	WG1349125
1,2,3-Trichlorobenzene	U		0.000625	0.00250	1	09/20/2019 09:03	WG1349125
1,2,4-Trichlorobenzene	U		0.00482	0.0125	1	09/20/2019 09:03	WG1349125
1,1,1-Trichloroethane	U		0.000275	0.00250	1	09/20/2019 09:03	WG1349125
1,1,2-Trichloroethane	U		0.000883	0.00250	1	09/20/2019 09:03	WG1349125
Trichloroethene	U		0.000400	0.00100	1	09/20/2019 09:03	WG1349125
Trichlorofluoromethane	U		0.000500	0.00250	1	09/20/2019 09:03	WG1349125
1,2,3-Trichloropropane	U		0.00510	0.0125	1	09/20/2019 09:03	WG1349125
1,2,4-Trimethylbenzene	U		0.00116	0.00500	1	09/20/2019 09:03	WG1349125
1,2,3-Trimethylbenzene	U		0.00115	0.00500	1	09/20/2019 09:03	WG1349125
1,3,5-Trimethylbenzene	U		0.00108	0.00500	1	09/20/2019 09:03	WG1349125
Vinyl acetate	U		0.00352	0.0125	1	09/20/2019 09:03	WG1349125
Vinyl chloride	U		0.000683	0.00250	1	09/20/2019 09:03	WG1349125
Xylenes, Total	U		0.00478	0.00650	1	09/20/2019 09:03	WG1349125
(S) Toluene-d8	*107*			*75.0-131*		*09/20/2019 09:03*	WG1349125
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*09/20/2019 09:03*	WG1349125
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*09/20/2019 09:03*	WG1349125

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.2		1	09/19/2019 20:32	WG1349076

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0299		0.0155	0.0283	1	09/20/2019 09:25	WG1349125
Acrylonitrile	U		0.00215	0.0142	1	09/20/2019 09:25	WG1349125
Benzene	0.0148		0.000453	0.00113	1	09/20/2019 09:25	WG1349125
Bromobenzene	U		0.00119	0.0142	1	09/20/2019 09:25	WG1349125
Bromodichloromethane	U		0.000893	0.00283	1	09/20/2019 09:25	WG1349125
Bromochloromethane	U		0.00128	0.00567	1	09/20/2019 09:25	WG1349125
Bromoform	U		0.00678	0.0283	1	09/20/2019 09:25	WG1349125
Bromomethane	U		0.00419	0.0142	1	09/20/2019 09:25	WG1349125
n-Butylbenzene	U		0.00435	0.0142	1	09/20/2019 09:25	WG1349125
sec-Butylbenzene	U		0.00287	0.0142	1	09/20/2019 09:25	WG1349125
tert-Butylbenzene	U		0.00176	0.00567	1	09/20/2019 09:25	WG1349125
Carbon disulfide	U		0.00460	0.0142	1	09/20/2019 09:25	WG1349125
Carbon tetrachloride	U		0.00122	0.00567	1	09/20/2019 09:25	WG1349125
Chlorobenzene	U		0.000649	0.00283	1	09/20/2019 09:25	WG1349125
Chlorodibromomethane	U		0.000510	0.00283	1	09/20/2019 09:25	WG1349125
Chloroethane	U		0.00122	0.00567	1	09/20/2019 09:25	WG1349125
Chloroform	U		0.000470	0.00283	1	09/20/2019 09:25	WG1349125
Chloromethane	U		0.00158	0.0142	1	09/20/2019 09:25	WG1349125
2-Chlorotoluene	U		0.00104	0.00283	1	09/20/2019 09:25	WG1349125
4-Chlorotoluene	U		0.00128	0.00567	1	09/20/2019 09:25	WG1349125
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00578	0.0283	1	09/20/2019 09:25	WG1349125
1,2-Dibromoethane	U		0.000595	0.00283	1	09/20/2019 09:25	WG1349125
Dibromomethane	U		0.00113	0.00567	1	09/20/2019 09:25	WG1349125
1,2-Dichlorobenzene	U		0.00164	0.00567	1	09/20/2019 09:25	WG1349125
1,3-Dichlorobenzene	U		0.00193	0.00567	1	09/20/2019 09:25	WG1349125
1,4-Dichlorobenzene	U		0.00223	0.00567	1	09/20/2019 09:25	WG1349125
Dichlorodifluoromethane	U		0.000927	0.00283	1	09/20/2019 09:25	WG1349125
1,1-Dichloroethane	U		0.000652	0.00283	1	09/20/2019 09:25	WG1349125
1,2-Dichloroethane	U		0.000538	0.00283	1	09/20/2019 09:25	WG1349125
1,1-Dichloroethene	U		0.000567	0.00283	1	09/20/2019 09:25	WG1349125
cis-1,2-Dichloroethene	0.0143		0.000782	0.00283	1	09/20/2019 09:25	WG1349125
trans-1,2-Dichloroethene	U		0.00162	0.00567	1	09/20/2019 09:25	WG1349125
1,2-Dichloropropane	U		0.00144	0.00567	1	09/20/2019 09:25	WG1349125
1,1-Dichloropropene	U		0.000793	0.00283	1	09/20/2019 09:25	WG1349125
1,3-Dichloropropane	U		0.00198	0.00567	1	09/20/2019 09:25	WG1349125
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	09/20/2019 09:25	WG1349125
trans-1,3-Dichloropropene	U		0.00173	0.00567	1	09/20/2019 09:25	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00159	0.00567	1	09/20/2019 09:25	WG1349125
2,2-Dichloropropane	U		0.000899	0.00283	1	09/20/2019 09:25	WG1349125
Di-isopropyl ether	U		0.000397	0.00113	1	09/20/2019 09:25	WG1349125
Ethylbenzene	U		0.000601	0.00283	1	09/20/2019 09:25	WG1349125
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/20/2019 09:25	WG1349125
2-Hexanone	U		0.0113	0.0283	1	09/20/2019 09:25	WG1349125
n-Hexane	U		0.00120	0.00567	1	09/20/2019 09:25	WG1349125
Iodomethane	U		0.00686	0.0142	1	09/20/2019 09:25	WG1349125
Isopropylbenzene	U		0.000978	0.00283	1	09/20/2019 09:25	WG1349125
p-Isopropyltoluene	U		0.00264	0.00567	1	09/20/2019 09:25	WG1349125
2-Butanone (MEK)	0.0223 U	B J	0.0142	0.0283	1	09/20/2019 09:25	WG1349125
Methylene Chloride	0.00805	J	0.00753	0.0283	1	09/20/2019 09:25	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/20/2019 09:25	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	09/20/2019 09:25	WG1349125
Naphthalene	U		0.00354	0.0142	1	09/20/2019 09:25	WG1349125
n-Propylbenzene	U		0.00134	0.00567	1	09/20/2019 09:25	WG1349125
Styrene	U		0.00309	0.0142	1	09/20/2019 09:25	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000567	0.00283	1	09/20/2019 09:25	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	09/20/2019 09:25	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000765	0.00283	1	09/20/2019 09:25	WG1349125
Tetrachloroethene	U		0.000793	0.00283	1	09/20/2019 09:25	WG1349125
Toluene	0.00501	J	0.00142	0.00567	1	09/20/2019 09:25	WG1349125
1,2,3-Trichlorobenzene	U		0.000708	0.00283	1	09/20/2019 09:25	WG1349125
1,2,4-Trichlorobenzene	U		0.00546	0.0142	1	09/20/2019 09:25	WG1349125
1,1,1-Trichloroethane	U		0.000312	0.00283	1	09/20/2019 09:25	WG1349125
1,1,2-Trichloroethane	U		0.00100	0.00283	1	09/20/2019 09:25	WG1349125
Trichloroethene	U		0.000453	0.00113	1	09/20/2019 09:25	WG1349125
Trichlorofluoromethane	U		0.000567	0.00283	1	09/20/2019 09:25	WG1349125
1,2,3-Trichloropropane	U		0.00578	0.0142	1	09/20/2019 09:25	WG1349125
1,2,4-Trimethylbenzene	U		0.00131	0.00567	1	09/20/2019 09:25	WG1349125
1,2,3-Trimethylbenzene	U		0.00130	0.00567	1	09/20/2019 09:25	WG1349125
1,3,5-Trimethylbenzene	U		0.00122	0.00567	1	09/20/2019 09:25	WG1349125
Vinyl acetate	U		0.00399	0.0142	1	09/20/2019 09:25	WG1349125
Vinyl chloride	0.00110	J	0.000774	0.00283	1	09/20/2019 09:25	WG1349125
Xylenes, Total	U		0.00542	0.00737	1	09/20/2019 09:25	WG1349125
(S) Toluene-d8	*108*			*75.0-131*		*09/20/2019 09:25*	WG1349125
(S) 4-Bromofluorobenzene	*98.4*			*67.0-138*		*09/20/2019 09:25*	WG1349125
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*09/20/2019 09:25*	WG1349125

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.2		1	09/19/2019 20:32	WG1349076

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Acetone	0.0418			0.0155	0.0283	1	09/20/2019 09:47	WG1349125
Acrylonitrile	U			0.00215	0.0142	1	09/20/2019 09:47	WG1349125
Benzene	0.00992			0.000453	0.00113	1	09/20/2019 09:47	WG1349125
Bromobenzene	U			0.00119	0.0142	1	09/20/2019 09:47	WG1349125
Bromodichloromethane	U			0.000893	0.00283	1	09/20/2019 09:47	WG1349125
Bromochloromethane	U			0.00128	0.00567	1	09/20/2019 09:47	WG1349125
Bromoform	U			0.00678	0.0283	1	09/20/2019 09:47	WG1349125
Bromomethane	U			0.00419	0.0142	1	09/20/2019 09:47	WG1349125
n-Butylbenzene	U			0.00435	0.0142	1	09/20/2019 09:47	WG1349125
sec-Butylbenzene	U			0.00287	0.0142	1	09/20/2019 09:47	WG1349125
tert-Butylbenzene	U			0.00176	0.00567	1	09/20/2019 09:47	WG1349125
Carbon disulfide	U			0.00460	0.0142	1	09/20/2019 09:47	WG1349125
Carbon tetrachloride	U			0.00122	0.00567	1	09/20/2019 09:47	WG1349125
Chlorobenzene	U			0.000649	0.00283	1	09/20/2019 09:47	WG1349125
Chlorodibromomethane	U			0.000510	0.00283	1	09/20/2019 09:47	WG1349125
Chloroethane	U			0.00122	0.00567	1	09/20/2019 09:47	WG1349125
Chloroform	U			0.000470	0.00283	1	09/20/2019 09:47	WG1349125
Chloromethane	U			0.00158	0.0142	1	09/20/2019 09:47	WG1349125
2-Chlorotoluene	U			0.00104	0.00283	1	09/20/2019 09:47	WG1349125
4-Chlorotoluene	U			0.00128	0.00567	1	09/20/2019 09:47	WG1349125
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00578	0.0283	1	09/20/2019 09:47	WG1349125
1,2-Dibromoethane	U			0.000595	0.00283	1	09/20/2019 09:47	WG1349125
Dibromomethane	U			0.00113	0.00567	1	09/20/2019 09:47	WG1349125
1,2-Dichlorobenzene	U			0.00164	0.00567	1	09/20/2019 09:47	WG1349125
1,3-Dichlorobenzene	U			0.00193	0.00567	1	09/20/2019 09:47	WG1349125
1,4-Dichlorobenzene	U			0.00223	0.00567	1	09/20/2019 09:47	WG1349125
Dichlorodifluoromethane	U			0.000927	0.00283	1	09/20/2019 09:47	WG1349125
1,1-Dichloroethane	U			0.000652	0.00283	1	09/20/2019 09:47	WG1349125
1,2-Dichloroethane	U			0.000538	0.00283	1	09/20/2019 09:47	WG1349125
1,1-Dichloroethene	U			0.000567	0.00283	1	09/20/2019 09:47	WG1349125
cis-1,2-Dichloroethene	0.213			0.000782	0.00283	1	09/20/2019 09:47	WG1349125
trans-1,2-Dichloroethene	0.00171		J	0.00162	0.00567	1	09/20/2019 09:47	WG1349125
1,2-Dichloropropane	U			0.00144	0.00567	1	09/20/2019 09:47	WG1349125
1,1-Dichloropropene	U			0.000793	0.00283	1	09/20/2019 09:47	WG1349125
1,3-Dichloropropane	U			0.00198	0.00567	1	09/20/2019 09:47	WG1349125
cis-1,3-Dichloropropene	U			0.000768	0.00283	1	09/20/2019 09:47	WG1349125
trans-1,3-Dichloropropene	U			0.00173	0.00567	1	09/20/2019 09:47	WG1349125
trans-1,4-Dichloro-2-butene	U			0.00159	0.00567	1	09/20/2019 09:47	WG1349125
2,2-Dichloropropane	U			0.000899	0.00283	1	09/20/2019 09:47	WG1349125
Di-isopropyl ether	U			0.000397	0.00113	1	09/20/2019 09:47	WG1349125
Ethylbenzene	U			0.000601	0.00283	1	09/20/2019 09:47	WG1349125
Hexachloro-1,3-butadiene	U			0.0144	0.0283	1	09/20/2019 09:47	WG1349125
2-Hexanone	U			0.0113	0.0283	1	09/20/2019 09:47	WG1349125
n-Hexane	0.0181			0.00120	0.00567	1	09/20/2019 09:47	WG1349125
Iodomethane	U			0.00686	0.0142	1	09/20/2019 09:47	WG1349125
Isopropylbenzene	U			0.000978	0.00283	1	09/20/2019 09:47	WG1349125
p-Isopropyltoluene	U			0.00264	0.00567	1	09/20/2019 09:47	WG1349125
2-Butanone (MEK)	0.0233	U	B J	0.0142	0.0283	1	09/20/2019 09:47	WG1349125
Methylene Chloride	U			0.00753	0.0283	1	09/20/2019 09:47	WG1349125
4-Methyl-2-pentanone (MIBK)	U			0.0113	0.0283	1	09/20/2019 09:47	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	09/20/2019 09:47	WG1349125
Naphthalene	U		0.00354	0.0142	1	09/20/2019 09:47	WG1349125
n-Propylbenzene	U		0.00134	0.00567	1	09/20/2019 09:47	WG1349125
Styrene	U		0.00309	0.0142	1	09/20/2019 09:47	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000567	0.00283	1	09/20/2019 09:47	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	09/20/2019 09:47	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000765	0.00283	1	09/20/2019 09:47	WG1349125
Tetrachloroethene	U		0.000793	0.00283	1	09/20/2019 09:47	WG1349125
Toluene	0.00977		0.00142	0.00567	1	09/20/2019 09:47	WG1349125
1,2,3-Trichlorobenzene	U		0.000708	0.00283	1	09/20/2019 09:47	WG1349125
1,2,4-Trichlorobenzene	U		0.00546	0.0142	1	09/20/2019 09:47	WG1349125
1,1,1-Trichloroethane	U		0.000312	0.00283	1	09/20/2019 09:47	WG1349125
1,1,2-Trichloroethane	U		0.00100	0.00283	1	09/20/2019 09:47	WG1349125
Trichloroethene	U		0.000453	0.00113	1	09/20/2019 09:47	WG1349125
Trichlorofluoromethane	U		0.000567	0.00283	1	09/20/2019 09:47	WG1349125
1,2,3-Trichloropropane	U		0.00578	0.0142	1	09/20/2019 09:47	WG1349125
1,2,4-Trimethylbenzene	U		0.00131	0.00567	1	09/20/2019 09:47	WG1349125
1,2,3-Trimethylbenzene	U		0.00130	0.00567	1	09/20/2019 09:47	WG1349125
1,3,5-Trimethylbenzene	U		0.00122	0.00567	1	09/20/2019 09:47	WG1349125
Vinyl acetate	U		0.00399	0.0142	1	09/20/2019 09:47	WG1349125
Vinyl chloride	0.0200		0.000774	0.00283	1	09/20/2019 09:47	WG1349125
Xylenes, Total	U		0.00542	0.00737	1	09/20/2019 09:47	WG1349125
(S) Toluene-d8	*106*			*75.0-131*		*09/20/2019 09:47*	WG1349125
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*09/20/2019 09:47*	WG1349125
(S) 1,2-Dichloroethane-d4	*95.2*			*70.0-130*		*09/20/2019 09:47*	WG1349125

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.9		1	09/19/2019 20:32	WG1349076

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0439		0.0161	0.0294	1.01	09/20/2019 10:10	WG1349125
Acrylonitrile	U		0.00224	0.0147	1.01	09/20/2019 10:10	WG1349125
Benzene	0.00303		0.000471	0.00118	1.01	09/20/2019 10:10	WG1349125
Bromobenzene	U		0.00123	0.0147	1.01	09/20/2019 10:10	WG1349125
Bromodichloromethane	U		0.000927	0.00294	1.01	09/20/2019 10:10	WG1349125
Bromochloromethane	U		0.00133	0.00588	1.01	09/20/2019 10:10	WG1349125
Bromoform	U		0.00703	0.0294	1.01	09/20/2019 10:10	WG1349125
Bromomethane	U		0.00436	0.0147	1.01	09/20/2019 10:10	WG1349125
n-Butylbenzene	U		0.00452	0.0147	1.01	09/20/2019 10:10	WG1349125
sec-Butylbenzene	U		0.00298	0.0147	1.01	09/20/2019 10:10	WG1349125
tert-Butylbenzene	U		0.00182	0.00588	1.01	09/20/2019 10:10	WG1349125
Carbon disulfide	U		0.00478	0.0147	1.01	09/20/2019 10:10	WG1349125
Carbon tetrachloride	U		0.00127	0.00588	1.01	09/20/2019 10:10	WG1349125
Chlorobenzene	U		0.000674	0.00294	1.01	09/20/2019 10:10	WG1349125
Chlorodibromomethane	U		0.000529	0.00294	1.01	09/20/2019 10:10	WG1349125
Chloroethane	U		0.00127	0.00588	1.01	09/20/2019 10:10	WG1349125
Chloroform	U		0.000488	0.00294	1.01	09/20/2019 10:10	WG1349125
Chloromethane	U		0.00163	0.0147	1.01	09/20/2019 10:10	WG1349125
2-Chlorotoluene	U		0.00108	0.00294	1.01	09/20/2019 10:10	WG1349125
4-Chlorotoluene	U		0.00133	0.00588	1.01	09/20/2019 10:10	WG1349125
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00600	0.0294	1.01	09/20/2019 10:10	WG1349125
1,2-Dibromoethane	U		0.000617	0.00294	1.01	09/20/2019 10:10	WG1349125
Dibromomethane	U		0.00118	0.00588	1.01	09/20/2019 10:10	WG1349125
1,2-Dichlorobenzene	U		0.00170	0.00588	1.01	09/20/2019 10:10	WG1349125
1,3-Dichlorobenzene	U		0.00200	0.00588	1.01	09/20/2019 10:10	WG1349125
1,4-Dichlorobenzene	U		0.00232	0.00588	1.01	09/20/2019 10:10	WG1349125
Dichlorodifluoromethane	U		0.000962	0.00294	1.01	09/20/2019 10:10	WG1349125
1,1-Dichloroethane	U		0.000677	0.00294	1.01	09/20/2019 10:10	WG1349125
1,2-Dichloroethane	U		0.000559	0.00294	1.01	09/20/2019 10:10	WG1349125
1,1-Dichloroethene	0.00307		0.000588	0.00294	1.01	09/20/2019 10:10	WG1349125
cis-1,2-Dichloroethene	2.47		0.000812	0.00294	1.01	09/20/2019 10:10	WG1349125
trans-1,2-Dichloroethene	0.0113		0.00168	0.00588	1.01	09/20/2019 10:10	WG1349125
1,2-Dichloropropane	U		0.00149	0.00588	1.01	09/20/2019 10:10	WG1349125
1,1-Dichloropropene	U		0.000823	0.00294	1.01	09/20/2019 10:10	WG1349125
1,3-Dichloropropane	U		0.00206	0.00588	1.01	09/20/2019 10:10	WG1349125
cis-1,3-Dichloropropene	U		0.000798	0.00294	1.01	09/20/2019 10:10	WG1349125
trans-1,3-Dichloropropene	U		0.00179	0.00588	1.01	09/20/2019 10:10	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00164	0.00588	1.01	09/20/2019 10:10	WG1349125
2,2-Dichloropropane	U		0.000933	0.00294	1.01	09/20/2019 10:10	WG1349125
Di-isopropyl ether	U		0.000412	0.00118	1.01	09/20/2019 10:10	WG1349125
Ethylbenzene	U		0.000623	0.00294	1.01	09/20/2019 10:10	WG1349125
Hexachloro-1,3-butadiene	U		0.0149	0.0294	1.01	09/20/2019 10:10	WG1349125
2-Hexanone	U		0.0118	0.0294	1.01	09/20/2019 10:10	WG1349125
n-Hexane	U		0.00125	0.00588	1.01	09/20/2019 10:10	WG1349125
Iodomethane	U		0.00712	0.0147	1.01	09/20/2019 10:10	WG1349125
Isopropylbenzene	U		0.00102	0.00294	1.01	09/20/2019 10:10	WG1349125
p-Isopropyltoluene	U		0.00274	0.00588	1.01	09/20/2019 10:10	WG1349125
2-Butanone (MEK)	0.0251 U	B J	0.0147	0.0294	1.01	09/20/2019 10:10	WG1349125
Methylene Chloride	0.0111	J	0.00781	0.0294	1.01	09/20/2019 10:10	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0294	1.01	09/20/2019 10:10	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000347	0.00118	1.01	09/20/2019 10:10	WG1349125
Naphthalene	U		0.00367	0.0147	1.01	09/20/2019 10:10	WG1349125
n-Propylbenzene	U		0.00139	0.00588	1.01	09/20/2019 10:10	WG1349125
Styrene	U		0.00321	0.0147	1.01	09/20/2019 10:10	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000588	0.00294	1.01	09/20/2019 10:10	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000459	0.00294	1.01	09/20/2019 10:10	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000794	0.00294	1.01	09/20/2019 10:10	WG1349125
Tetrachloroethene	0.0115		0.000823	0.00294	1.01	09/20/2019 10:10	WG1349125
Toluene	0.0132		0.00147	0.00588	1.01	09/20/2019 10:10	WG1349125
1,2,3-Trichlorobenzene	U		0.000735	0.00294	1.01	09/20/2019 10:10	WG1349125
1,2,4-Trichlorobenzene	U		0.00567	0.0147	1.01	09/20/2019 10:10	WG1349125
1,1,1-Trichloroethane	U		0.000324	0.00294	1.01	09/20/2019 10:10	WG1349125
1,1,2-Trichloroethane	U		0.00104	0.00294	1.01	09/20/2019 10:10	WG1349125
Trichloroethene	0.0441		0.000471	0.00118	1.01	09/20/2019 10:10	WG1349125
Trichlorofluoromethane	U		0.000588	0.00294	1.01	09/20/2019 10:10	WG1349125
1,2,3-Trichloropropane	U		0.00600	0.0147	1.01	09/20/2019 10:10	WG1349125
1,2,4-Trimethylbenzene	U		0.00136	0.00588	1.01	09/20/2019 10:10	WG1349125
1,2,3-Trimethylbenzene	U		0.00135	0.00588	1.01	09/20/2019 10:10	WG1349125
1,3,5-Trimethylbenzene	U		0.00127	0.00588	1.01	09/20/2019 10:10	WG1349125
Vinyl acetate	U		0.00415	0.0147	1.01	09/20/2019 10:10	WG1349125
Vinyl chloride	0.0467		0.000804	0.00294	1.01	09/20/2019 10:10	WG1349125
Xylenes, Total	U		0.00563	0.00765	1.01	09/20/2019 10:10	WG1349125
(S) Toluene-d8	*106*			*75.0-131*		*09/20/2019 10:10*	WG1349125
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*09/20/2019 10:10*	WG1349125
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*		*09/20/2019 10:10*	WG1349125

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.5		1	09/19/2019 20:22	WG1349077

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0383		0.0170	0.0310	1.06	09/20/2019 10:32	WG1349125
Acrylonitrile	U		0.00235	0.0155	1.06	09/20/2019 10:32	WG1349125
Benzene	0.00121	J	0.000496	0.00124	1.06	09/20/2019 10:32	WG1349125
Bromobenzene	U		0.00130	0.0155	1.06	09/20/2019 10:32	WG1349125
Bromodichloromethane	U		0.000977	0.00310	1.06	09/20/2019 10:32	WG1349125
Bromochloromethane	U		0.00140	0.00620	1.06	09/20/2019 10:32	WG1349125
Bromoform	U		0.00742	0.0310	1.06	09/20/2019 10:32	WG1349125
Bromomethane	U		0.00459	0.0155	1.06	09/20/2019 10:32	WG1349125
n-Butylbenzene	U		0.00476	0.0155	1.06	09/20/2019 10:32	WG1349125
sec-Butylbenzene	U		0.00314	0.0155	1.06	09/20/2019 10:32	WG1349125
tert-Butylbenzene	U		0.00192	0.00620	1.06	09/20/2019 10:32	WG1349125
Carbon disulfide	U		0.00503	0.0155	1.06	09/20/2019 10:32	WG1349125
Carbon tetrachloride	U		0.00133	0.00620	1.06	09/20/2019 10:32	WG1349125
Chlorobenzene	U		0.000710	0.00310	1.06	09/20/2019 10:32	WG1349125
Chlorodibromomethane	U		0.000558	0.00310	1.06	09/20/2019 10:32	WG1349125
Chloroethane	U		0.00133	0.00620	1.06	09/20/2019 10:32	WG1349125
Chloroform	U		0.000515	0.00310	1.06	09/20/2019 10:32	WG1349125
Chloromethane	U		0.00172	0.0155	1.06	09/20/2019 10:32	WG1349125
2-Chlorotoluene	U		0.00114	0.00310	1.06	09/20/2019 10:32	WG1349125
4-Chlorotoluene	U		0.00140	0.00620	1.06	09/20/2019 10:32	WG1349125
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00633	0.0310	1.06	09/20/2019 10:32	WG1349125
1,2-Dibromoethane	U		0.000651	0.00310	1.06	09/20/2019 10:32	WG1349125
Dibromomethane	U		0.00124	0.00620	1.06	09/20/2019 10:32	WG1349125
1,2-Dichlorobenzene	U		0.00180	0.00620	1.06	09/20/2019 10:32	WG1349125
1,3-Dichlorobenzene	U		0.00211	0.00620	1.06	09/20/2019 10:32	WG1349125
1,4-Dichlorobenzene	U		0.00245	0.00620	1.06	09/20/2019 10:32	WG1349125
Dichlorodifluoromethane	U		0.00101	0.00310	1.06	09/20/2019 10:32	WG1349125
1,1-Dichloroethane	U		0.000714	0.00310	1.06	09/20/2019 10:32	WG1349125
1,2-Dichloroethane	U		0.000590	0.00310	1.06	09/20/2019 10:32	WG1349125
1,1-Dichloroethene	0.00188	J	0.000620	0.00310	1.06	09/20/2019 10:32	WG1349125
cis-1,2-Dichloroethene	2.15		0.000855	0.00310	1.06	09/20/2019 10:32	WG1349125
trans-1,2-Dichloroethene	0.00850		0.00178	0.00620	1.06	09/20/2019 10:32	WG1349125
1,2-Dichloropropane	U		0.00158	0.00620	1.06	09/20/2019 10:32	WG1349125
1,1-Dichloropropene	U		0.000868	0.00310	1.06	09/20/2019 10:32	WG1349125
1,3-Dichloropropane	U		0.00218	0.00620	1.06	09/20/2019 10:32	WG1349125
cis-1,3-Dichloropropene	U		0.000841	0.00310	1.06	09/20/2019 10:32	WG1349125
trans-1,3-Dichloropropene	U		0.00190	0.00620	1.06	09/20/2019 10:32	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00173	0.00620	1.06	09/20/2019 10:32	WG1349125
2,2-Dichloropropane	U		0.000983	0.00310	1.06	09/20/2019 10:32	WG1349125
Di-isopropyl ether	U		0.000434	0.00124	1.06	09/20/2019 10:32	WG1349125
Ethylbenzene	U		0.000658	0.00310	1.06	09/20/2019 10:32	WG1349125
Hexachloro-1,3-butadiene	U		0.0158	0.0310	1.06	09/20/2019 10:32	WG1349125
2-Hexanone	U		0.0124	0.0310	1.06	09/20/2019 10:32	WG1349125
n-Hexane	U		0.00131	0.00620	1.06	09/20/2019 10:32	WG1349125
Iodomethane	U		0.00750	0.0155	1.06	09/20/2019 10:32	WG1349125
Isopropylbenzene	U		0.00107	0.00310	1.06	09/20/2019 10:32	WG1349125
p-Isopropyltoluene	U		0.00289	0.00620	1.06	09/20/2019 10:32	WG1349125
2-Butanone (MEK)	0.0256 U	B J	0.0154	0.0310	1.06	09/20/2019 10:32	WG1349125
Methylene Chloride	0.00894	J	0.00824	0.0310	1.06	09/20/2019 10:32	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0310	1.06	09/20/2019 10:32	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000366	0.00124	1.06	09/20/2019 10:32	WG1349125
Naphthalene	U		0.00387	0.0155	1.06	09/20/2019 10:32	WG1349125
n-Propylbenzene	U		0.00146	0.00620	1.06	09/20/2019 10:32	WG1349125
Styrene	U		0.00338	0.0155	1.06	09/20/2019 10:32	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000620	0.00310	1.06	09/20/2019 10:32	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000483	0.00310	1.06	09/20/2019 10:32	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000838	0.00310	1.06	09/20/2019 10:32	WG1349125
Tetrachloroethene	0.00674		0.000868	0.00310	1.06	09/20/2019 10:32	WG1349125
Toluene	0.00820		0.00154	0.00620	1.06	09/20/2019 10:32	WG1349125
1,2,3-Trichlorobenzene	U		0.000775	0.00310	1.06	09/20/2019 10:32	WG1349125
1,2,4-Trichlorobenzene	U		0.00598	0.0155	1.06	09/20/2019 10:32	WG1349125
1,1,1-Trichloroethane	U		0.000342	0.00310	1.06	09/20/2019 10:32	WG1349125
1,1,2-Trichloroethane	U		0.00110	0.00310	1.06	09/20/2019 10:32	WG1349125
Trichloroethene	0.0806		0.000496	0.00124	1.06	09/20/2019 10:32	WG1349125
Trichlorofluoromethane	U		0.000620	0.00310	1.06	09/20/2019 10:32	WG1349125
1,2,3-Trichloropropane	U		0.00633	0.0155	1.06	09/20/2019 10:32	WG1349125
1,2,4-Trimethylbenzene	U		0.00144	0.00620	1.06	09/20/2019 10:32	WG1349125
1,2,3-Trimethylbenzene	U		0.00143	0.00620	1.06	09/20/2019 10:32	WG1349125
1,3,5-Trimethylbenzene	U		0.00133	0.00620	1.06	09/20/2019 10:32	WG1349125
Vinyl acetate	U		0.00437	0.0155	1.06	09/20/2019 10:32	WG1349125
Vinyl chloride	0.0218		0.000847	0.00310	1.06	09/20/2019 10:32	WG1349125
Xylenes, Total	U		0.00593	0.00806	1.06	09/20/2019 10:32	WG1349125
(S) Toluene-d8	*105*			*75.0-131*		*09/20/2019 10:32*	WG1349125
(S) 4-Bromofluorobenzene	*96.2*			*67.0-138*		*09/20/2019 10:32*	WG1349125
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*09/20/2019 10:32*	WG1349125

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.7		1	09/19/2019 20:22	WG1349077

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0359		0.0172	0.0314	1	09/20/2019 10:54	WG1349125
Acrylonitrile	U		0.00238	0.0157	1	09/20/2019 10:54	WG1349125
Benzene	0.000555	J	0.000502	0.00125	1	09/20/2019 10:54	WG1349125
Bromobenzene	U		0.00132	0.0157	1	09/20/2019 10:54	WG1349125
Bromodichloromethane	U		0.000988	0.00314	1	09/20/2019 10:54	WG1349125
Bromochloromethane	U		0.00142	0.00627	1	09/20/2019 10:54	WG1349125
Bromoform	U		0.00750	0.0314	1	09/20/2019 10:54	WG1349125
Bromomethane	U		0.00464	0.0157	1	09/20/2019 10:54	WG1349125
n-Butylbenzene	U		0.00482	0.0157	1	09/20/2019 10:54	WG1349125
sec-Butylbenzene	U		0.00317	0.0157	1	09/20/2019 10:54	WG1349125
tert-Butylbenzene	U		0.00194	0.00627	1	09/20/2019 10:54	WG1349125
Carbon disulfide	U		0.00509	0.0157	1	09/20/2019 10:54	WG1349125
Carbon tetrachloride	U		0.00135	0.00627	1	09/20/2019 10:54	WG1349125
Chlorobenzene	U		0.000719	0.00314	1	09/20/2019 10:54	WG1349125
Chlorodibromomethane	U		0.000564	0.00314	1	09/20/2019 10:54	WG1349125
Chloroethane	U		0.00135	0.00627	1	09/20/2019 10:54	WG1349125
Chloroform	U		0.000520	0.00314	1	09/20/2019 10:54	WG1349125
Chloromethane	U		0.00174	0.0157	1	09/20/2019 10:54	WG1349125
2-Chlorotoluene	U		0.00115	0.00314	1	09/20/2019 10:54	WG1349125
4-Chlorotoluene	U		0.00142	0.00627	1	09/20/2019 10:54	WG1349125
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00640	0.0314	1	09/20/2019 10:54	WG1349125
1,2-Dibromoethane	U		0.000658	0.00314	1	09/20/2019 10:54	WG1349125
Dibromomethane	U		0.00125	0.00627	1	09/20/2019 10:54	WG1349125
1,2-Dichlorobenzene	U		0.00182	0.00627	1	09/20/2019 10:54	WG1349125
1,3-Dichlorobenzene	U		0.00213	0.00627	1	09/20/2019 10:54	WG1349125
1,4-Dichlorobenzene	U		0.00247	0.00627	1	09/20/2019 10:54	WG1349125
Dichlorodifluoromethane	U		0.00103	0.00314	1	09/20/2019 10:54	WG1349125
1,1-Dichloroethane	U		0.000721	0.00314	1	09/20/2019 10:54	WG1349125
1,2-Dichloroethane	U		0.000596	0.00314	1	09/20/2019 10:54	WG1349125
1,1-Dichloroethene	0.00111	J	0.000627	0.00314	1	09/20/2019 10:54	WG1349125
cis-1,2-Dichloroethene	1.47		0.000865	0.00314	1	09/20/2019 10:54	WG1349125
trans-1,2-Dichloroethene	0.00586	J	0.00179	0.00627	1	09/20/2019 10:54	WG1349125
1,2-Dichloropropane	U		0.00159	0.00627	1	09/20/2019 10:54	WG1349125
1,1-Dichloropropene	U		0.000878	0.00314	1	09/20/2019 10:54	WG1349125
1,3-Dichloropropane	U		0.00219	0.00627	1	09/20/2019 10:54	WG1349125
cis-1,3-Dichloropropene	U		0.000850	0.00314	1	09/20/2019 10:54	WG1349125
trans-1,3-Dichloropropene	U		0.00192	0.00627	1	09/20/2019 10:54	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00176	0.00627	1	09/20/2019 10:54	WG1349125
2,2-Dichloropropane	U		0.000994	0.00314	1	09/20/2019 10:54	WG1349125
Di-isopropyl ether	U		0.000439	0.00125	1	09/20/2019 10:54	WG1349125
Ethylbenzene	U		0.000665	0.00314	1	09/20/2019 10:54	WG1349125
Hexachloro-1,3-butadiene	U		0.0159	0.0314	1	09/20/2019 10:54	WG1349125
2-Hexanone	U		0.0125	0.0314	1	09/20/2019 10:54	WG1349125
n-Hexane	U		0.00133	0.00627	1	09/20/2019 10:54	WG1349125
Iodomethane	U		0.00759	0.0157	1	09/20/2019 10:54	WG1349125
Isopropylbenzene	U		0.00108	0.00314	1	09/20/2019 10:54	WG1349125
p-Isopropyltoluene	U		0.00292	0.00627	1	09/20/2019 10:54	WG1349125
2-Butanone (MEK)	0.0230	U B J	0.0157	0.0314	1	09/20/2019 10:54	WG1349125
Methylene Chloride	U		0.00833	0.0314	1	09/20/2019 10:54	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0125	0.0314	1	09/20/2019 10:54	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000370	0.00125	1	09/20/2019 10:54	WG1349125
Naphthalene	U		0.00391	0.0157	1	09/20/2019 10:54	WG1349125
n-Propylbenzene	U		0.00148	0.00627	1	09/20/2019 10:54	WG1349125
Styrene	U		0.00342	0.0157	1	09/20/2019 10:54	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000627	0.00314	1	09/20/2019 10:54	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000489	0.00314	1	09/20/2019 10:54	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000847	0.00314	1	09/20/2019 10:54	WG1349125
Tetrachloroethene	0.0516		0.000878	0.00314	1	09/20/2019 10:54	WG1349125
Toluene	0.00848		0.00157	0.00627	1	09/20/2019 10:54	WG1349125
1,2,3-Trichlorobenzene	U		0.000784	0.00314	1	09/20/2019 10:54	WG1349125
1,2,4-Trichlorobenzene	U		0.00604	0.0157	1	09/20/2019 10:54	WG1349125
1,1,1-Trichloroethane	U		0.000345	0.00314	1	09/20/2019 10:54	WG1349125
1,1,2-Trichloroethane	U		0.00111	0.00314	1	09/20/2019 10:54	WG1349125
Trichloroethene	0.0194		0.000502	0.00125	1	09/20/2019 10:54	WG1349125
Trichlorofluoromethane	U		0.000627	0.00314	1	09/20/2019 10:54	WG1349125
1,2,3-Trichloropropane	U		0.00640	0.0157	1	09/20/2019 10:54	WG1349125
1,2,4-Trimethylbenzene	U		0.00145	0.00627	1	09/20/2019 10:54	WG1349125
1,2,3-Trimethylbenzene	U		0.00144	0.00627	1	09/20/2019 10:54	WG1349125
1,3,5-Trimethylbenzene	U		0.00135	0.00627	1	09/20/2019 10:54	WG1349125
Vinyl acetate	U		0.00441	0.0157	1	09/20/2019 10:54	WG1349125
Vinyl chloride	0.00486		0.000857	0.00314	1	09/20/2019 10:54	WG1349125
Xylenes, Total	U		0.00599	0.00815	1	09/20/2019 10:54	WG1349125
(S) Toluene-d8	*107*			*75.0-131*		*09/20/2019 10:54*	WG1349125
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*09/20/2019 10:54*	WG1349125
(S) 1,2-Dichloroethane-d4	*95.2*			*70.0-130*		*09/20/2019 10:54*	WG1349125

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.9		1	09/19/2019 20:22	WG1349077

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0508		0.0171	0.0313	1	09/20/2019 11:14	WG1349125
Acrylonitrile	U		0.00238	0.0156	1	09/20/2019 11:14	WG1349125
Benzene	0.000689	J	0.000501	0.00125	1	09/20/2019 11:14	WG1349125
Bromobenzene	U		0.00131	0.0156	1	09/20/2019 11:14	WG1349125
Bromodichloromethane	U		0.000986	0.00313	1	09/20/2019 11:14	WG1349125
Bromochloromethane	U		0.00141	0.00626	1	09/20/2019 11:14	WG1349125
Bromoform	U		0.00748	0.0313	1	09/20/2019 11:14	WG1349125
Bromomethane	U		0.00463	0.0156	1	09/20/2019 11:14	WG1349125
n-Butylbenzene	U		0.00481	0.0156	1	09/20/2019 11:14	WG1349125
sec-Butylbenzene	U		0.00317	0.0156	1	09/20/2019 11:14	WG1349125
tert-Butylbenzene	U		0.00194	0.00626	1	09/20/2019 11:14	WG1349125
Carbon disulfide	U		0.00508	0.0156	1	09/20/2019 11:14	WG1349125
Carbon tetrachloride	U		0.00135	0.00626	1	09/20/2019 11:14	WG1349125
Chlorobenzene	U		0.000717	0.00313	1	09/20/2019 11:14	WG1349125
Chlorodibromomethane	U		0.000563	0.00313	1	09/20/2019 11:14	WG1349125
Chloroethane	U		0.00135	0.00626	1	09/20/2019 11:14	WG1349125
Chloroform	U		0.000519	0.00313	1	09/20/2019 11:14	WG1349125
Chloromethane	U		0.00174	0.0156	1	09/20/2019 11:14	WG1349125
2-Chlorotoluene	U		0.00115	0.00313	1	09/20/2019 11:14	WG1349125
4-Chlorotoluene	U		0.00141	0.00626	1	09/20/2019 11:14	WG1349125
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00638	0.0313	1	09/20/2019 11:14	WG1349125
1,2-Dibromoethane	U		0.000657	0.00313	1	09/20/2019 11:14	WG1349125
Dibromomethane	U		0.00125	0.00626	1	09/20/2019 11:14	WG1349125
1,2-Dichlorobenzene	U		0.00181	0.00626	1	09/20/2019 11:14	WG1349125
1,3-Dichlorobenzene	U		0.00213	0.00626	1	09/20/2019 11:14	WG1349125
1,4-Dichlorobenzene	U		0.00247	0.00626	1	09/20/2019 11:14	WG1349125
Dichlorodifluoromethane	U		0.00102	0.00313	1	09/20/2019 11:14	WG1349125
1,1-Dichloroethane	U		0.000720	0.00313	1	09/20/2019 11:14	WG1349125
1,2-Dichloroethane	U		0.000594	0.00313	1	09/20/2019 11:14	WG1349125
1,1-Dichloroethene	0.00232	J	0.000626	0.00313	1	09/20/2019 11:14	WG1349125
cis-1,2-Dichloroethene	2.01		0.000863	0.00313	1	09/20/2019 11:14	WG1349125
trans-1,2-Dichloroethene	0.00696		0.00179	0.00626	1	09/20/2019 11:14	WG1349125
1,2-Dichloropropane	U		0.00159	0.00626	1	09/20/2019 11:14	WG1349125
1,1-Dichloropropene	U		0.000876	0.00313	1	09/20/2019 11:14	WG1349125
1,3-Dichloropropane	U		0.00219	0.00626	1	09/20/2019 11:14	WG1349125
cis-1,3-Dichloropropene	U		0.000848	0.00313	1	09/20/2019 11:14	WG1349125
trans-1,3-Dichloropropene	U		0.00191	0.00626	1	09/20/2019 11:14	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00175	0.00626	1	09/20/2019 11:14	WG1349125
2,2-Dichloropropane	U		0.000992	0.00313	1	09/20/2019 11:14	WG1349125
Di-isopropyl ether	U		0.000438	0.00125	1	09/20/2019 11:14	WG1349125
Ethylbenzene	U		0.000663	0.00313	1	09/20/2019 11:14	WG1349125
Hexachloro-1,3-butadiene	U		0.0159	0.0313	1	09/20/2019 11:14	WG1349125
2-Hexanone	U		0.0125	0.0313	1	09/20/2019 11:14	WG1349125
n-Hexane	U		0.00133	0.00626	1	09/20/2019 11:14	WG1349125
Iodomethane	U		0.00757	0.0156	1	09/20/2019 11:14	WG1349125
Isopropylbenzene	U		0.00108	0.00313	1	09/20/2019 11:14	WG1349125
p-Isopropyltoluene	U		0.00292	0.00626	1	09/20/2019 11:14	WG1349125
2-Butanone (MEK)	0.0282	U B J	0.0156	0.0313	1	09/20/2019 11:14	WG1349125
Methylene Chloride	0.0112	J	0.00831	0.0313	1	09/20/2019 11:14	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0125	0.0313	1	09/20/2019 11:14	WG1349125

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000369	0.00125	1	09/20/2019 11:14	WG1349125
Naphthalene	U		0.00390	0.0156	1	09/20/2019 11:14	WG1349125
n-Propylbenzene	U		0.00148	0.00626	1	09/20/2019 11:14	WG1349125
Styrene	U		0.00342	0.0156	1	09/20/2019 11:14	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000626	0.00313	1	09/20/2019 11:14	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000488	0.00313	1	09/20/2019 11:14	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000845	0.00313	1	09/20/2019 11:14	WG1349125
Tetrachloroethene	U		0.000876	0.00313	1	09/20/2019 11:14	WG1349125
Toluene	0.0129		0.00156	0.00626	1	09/20/2019 11:14	WG1349125
1,2,3-Trichlorobenzene	U		0.000782	0.00313	1	09/20/2019 11:14	WG1349125
1,2,4-Trichlorobenzene	U		0.00603	0.0156	1	09/20/2019 11:14	WG1349125
1,1,1-Trichloroethane	U		0.000344	0.00313	1	09/20/2019 11:14	WG1349125
1,1,2-Trichloroethane	U		0.00111	0.00313	1	09/20/2019 11:14	WG1349125
Trichloroethene	U		0.000501	0.00125	1	09/20/2019 11:14	WG1349125
Trichlorofluoromethane	U		0.000626	0.00313	1	09/20/2019 11:14	WG1349125
1,2,3-Trichloropropane	U		0.00638	0.0156	1	09/20/2019 11:14	WG1349125
1,2,4-Trimethylbenzene	U		0.00145	0.00626	1	09/20/2019 11:14	WG1349125
1,2,3-Trimethylbenzene	U		0.00144	0.00626	1	09/20/2019 11:14	WG1349125
1,3,5-Trimethylbenzene	U		0.00135	0.00626	1	09/20/2019 11:14	WG1349125
Vinyl acetate	U		0.00440	0.0156	1	09/20/2019 11:14	WG1349125
Vinyl chloride	0.0106		0.000855	0.00313	1	09/20/2019 11:14	WG1349125
Xylenes, Total	U		0.00598	0.00813	1	09/20/2019 11:14	WG1349125
(S) Toluene-d8	*106*			*75.0-131*		*09/20/2019 11:14*	WG1349125
(S) 4-Bromofluorobenzene	*97.3*			*67.0-138*		*09/20/2019 11:14*	WG1349125
(S) 1,2-Dichloroethane-d4	*97.6*			*70.0-130*		*09/20/2019 11:14*	WG1349125

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	84.1		1	09/25/2019 15:37	WG1351913

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Acetone	0.0551			0.0163	0.0297	1	09/24/2019 14:39	WG1350957
Acrylonitrile	U	UJ	J0	0.00226	0.0149	1	09/24/2019 14:39	WG1350957
Benzene	U			0.000476	0.00119	1	09/24/2019 14:39	WG1350957
Bromobenzene	U			0.00125	0.0149	1	09/24/2019 14:39	WG1350957
Bromodichloromethane	U			0.000937	0.00297	1	09/24/2019 14:39	WG1350957
Bromochloromethane	U			0.00134	0.00594	1	09/24/2019 14:39	WG1350957
Bromoform	U			0.00711	0.0297	1	09/24/2019 14:39	WG1350957
Bromomethane	U			0.00440	0.0149	1	09/24/2019 14:39	WG1350957
n-Butylbenzene	U			0.00457	0.0149	1	09/24/2019 14:39	WG1350957
sec-Butylbenzene	U			0.00301	0.0149	1	09/24/2019 14:39	WG1350957
tert-Butylbenzene	U			0.00184	0.00594	1	09/24/2019 14:39	WG1350957
Carbon disulfide	U			0.00483	0.0149	1	09/24/2019 14:39	WG1350957
Carbon tetrachloride	U			0.00128	0.00594	1	09/24/2019 14:39	WG1350957
Chlorobenzene	U			0.000681	0.00297	1	09/24/2019 14:39	WG1350957
Chlorodibromomethane	U			0.000535	0.00297	1	09/24/2019 14:39	WG1350957
Chloroethane	U			0.00128	0.00594	1	09/24/2019 14:39	WG1350957
Chloroform	U			0.000493	0.00297	1	09/24/2019 14:39	WG1350957
Chloromethane	U			0.00165	0.0149	1	09/24/2019 14:39	WG1350957
2-Chlorotoluene	U			0.00109	0.00297	1	09/24/2019 14:39	WG1350957
4-Chlorotoluene	U			0.00134	0.00594	1	09/24/2019 14:39	WG1350957
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00606	0.0297	1	09/24/2019 14:39	WG1350957
1,2-Dibromoethane	U			0.000624	0.00297	1	09/24/2019 14:39	WG1350957
Dibromomethane	U			0.00119	0.00594	1	09/24/2019 14:39	WG1350957
1,2-Dichlorobenzene	U			0.00172	0.00594	1	09/24/2019 14:39	WG1350957
1,3-Dichlorobenzene	U			0.00202	0.00594	1	09/24/2019 14:39	WG1350957
1,4-Dichlorobenzene	U			0.00234	0.00594	1	09/24/2019 14:39	WG1350957
Dichlorodifluoromethane	U			0.000972	0.00297	1	09/24/2019 14:39	WG1350957
1,1-Dichloroethane	U			0.000684	0.00297	1	09/24/2019 14:39	WG1350957
1,2-Dichloroethane	U			0.000565	0.00297	1	09/24/2019 14:39	WG1350957
1,1-Dichloroethene	U			0.000594	0.00297	1	09/24/2019 14:39	WG1350957
cis-1,2-Dichloroethene	U			0.000820	0.00297	1	09/24/2019 14:39	WG1350957
trans-1,2-Dichloroethene	U			0.00170	0.00594	1	09/24/2019 14:39	WG1350957
1,2-Dichloropropane	U			0.00151	0.00594	1	09/24/2019 14:39	WG1350957
1,1-Dichloropropene	U			0.000832	0.00297	1	09/24/2019 14:39	WG1350957
1,3-Dichloropropane	U			0.00208	0.00594	1	09/24/2019 14:39	WG1350957
cis-1,3-Dichloropropene	U			0.000806	0.00297	1	09/24/2019 14:39	WG1350957
trans-1,3-Dichloropropene	U			0.00182	0.00594	1	09/24/2019 14:39	WG1350957
trans-1,4-Dichloro-2-butene	U			0.00166	0.00594	1	09/24/2019 14:39	WG1350957
2,2-Dichloropropane	U			0.000943	0.00297	1	09/24/2019 14:39	WG1350957
Di-isopropyl ether	U			0.000416	0.00119	1	09/24/2019 14:39	WG1350957
Ethylbenzene	0.000952	J	J	0.000630	0.00297	1	09/24/2019 14:39	WG1350957
Hexachloro-1,3-butadiene	U			0.0151	0.0297	1	09/24/2019 14:39	WG1350957
2-Hexanone	U	UJ	J0	0.0119	0.0297	1	09/24/2019 14:39	WG1350957
n-Hexane	U	UJ	J0	0.00126	0.00594	1	09/24/2019 14:39	WG1350957
Iodomethane	U			0.00719	0.0149	1	09/24/2019 14:39	WG1350957
Isopropylbenzene	U			0.00103	0.00297	1	09/24/2019 14:39	WG1350957
p-Isopropyltoluene	U			0.00277	0.00594	1	09/24/2019 14:39	WG1350957
2-Butanone (MEK)	U			0.0149	0.0297	1	09/24/2019 14:39	WG1350957
Methylene Chloride	U			0.00789	0.0297	1	09/24/2019 14:39	WG1350957
4-Methyl-2-pentanone (MIBK)	U			0.0119	0.0297	1	09/24/2019 14:39	WG1350957

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000351	0.00119	1	09/24/2019 14:39	WG1350957
Naphthalene	U			0.00371	0.0149	1	09/24/2019 14:39	WG1350957
n-Propylbenzene	U			0.00140	0.00594	1	09/24/2019 14:39	WG1350957
Styrene	U			0.00325	0.0149	1	09/24/2019 14:39	WG1350957
1,1,1,2-Tetrachloroethane	U			0.000594	0.00297	1	09/24/2019 14:39	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ	J0 J4	0.000464	0.00297	1	09/24/2019 14:39	WG1350957
1,1,2-Trichlorotrifluoroethane	U			0.000802	0.00297	1	09/24/2019 14:39	WG1350957
Tetrachloroethene	U			0.000832	0.00297	1	09/24/2019 14:39	WG1350957
Toluene	0.0262			0.00149	0.00594	1	09/24/2019 14:39	WG1350957
1,2,3-Trichlorobenzene	U			0.000743	0.00297	1	09/24/2019 14:39	WG1350957
1,2,4-Trichlorobenzene	U			0.00573	0.0149	1	09/24/2019 14:39	WG1350957
1,1,1-Trichloroethane	U			0.000327	0.00297	1	09/24/2019 14:39	WG1350957
1,1,2-Trichloroethane	U			0.00105	0.00297	1	09/24/2019 14:39	WG1350957
Trichloroethene	U			0.000476	0.00119	1	09/24/2019 14:39	WG1350957
Trichlorofluoromethane	U			0.000594	0.00297	1	09/24/2019 14:39	WG1350957
1,2,3-Trichloropropane	U			0.00606	0.0149	1	09/24/2019 14:39	WG1350957
1,2,4-Trimethylbenzene	U			0.00138	0.00594	1	09/24/2019 14:39	WG1350957
1,2,3-Trimethylbenzene	U			0.00137	0.00594	1	09/24/2019 14:39	WG1350957
1,3,5-Trimethylbenzene	U			0.00128	0.00594	1	09/24/2019 14:39	WG1350957
Vinyl acetate	U	UJ	J0	0.00418	0.0149	1	09/24/2019 14:39	WG1350957
Vinyl chloride	U			0.000812	0.00297	1	09/24/2019 14:39	WG1350957
Xylenes, Total	U			0.00568	0.00773	1	09/24/2019 14:39	WG1350957
(S) Toluene-d8	*110*				*75.0-131*		*09/24/2019 14:39*	WG1350957
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*09/24/2019 14:39*	WG1350957
(S) 1,2-Dichloroethane-d4	*102*				*70.0-130*		*09/24/2019 14:39*	WG1350957

JC 11/11/19

MW-328-10

Collected date/time: 09/16/19 11:05

SAMPLE RESULTS - 02

L1141285

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	72.8		1	09/25/2019 15:37	WG1351913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0559		0.0188	0.0344	1	09/24/2019 14:59	WG1350957	
Acrylonitrile	U	UJ J0	0.00261	0.0172	1	09/24/2019 14:59	WG1350957	
Benzene	U		0.000550	0.00137	1	09/24/2019 14:59	WG1350957	
Bromobenzene	U		0.00144	0.0172	1	09/24/2019 14:59	WG1350957	
Bromodichloromethane	U		0.00108	0.00344	1	09/24/2019 14:59	WG1350957	
Bromochloromethane	U		0.00155	0.00687	1	09/24/2019 14:59	WG1350957	
Bromoform	U		0.00822	0.0344	1	09/24/2019 14:59	WG1350957	
Bromomethane	U		0.00509	0.0172	1	09/24/2019 14:59	WG1350957	
n-Butylbenzene	U		0.00528	0.0172	1	09/24/2019 14:59	WG1350957	
sec-Butylbenzene	U		0.00348	0.0172	1	09/24/2019 14:59	WG1350957	
tert-Butylbenzene	U		0.00213	0.00687	1	09/24/2019 14:59	WG1350957	
Carbon disulfide	U		0.00558	0.0172	1	09/24/2019 14:59	WG1350957	
Carbon tetrachloride	U		0.00148	0.00687	1	09/24/2019 14:59	WG1350957	
Chlorobenzene	U		0.000788	0.00344	1	09/24/2019 14:59	WG1350957	
Chlorodibromomethane	U		0.000618	0.00344	1	09/24/2019 14:59	WG1350957	
Chloroethane	U		0.00148	0.00687	1	09/24/2019 14:59	WG1350957	
Chloroform	U		0.000570	0.00344	1	09/24/2019 14:59	WG1350957	
Chloromethane	U		0.00191	0.0172	1	09/24/2019 14:59	WG1350957	
2-Chlorotoluene	U		0.00126	0.00344	1	09/24/2019 14:59	WG1350957	
4-Chlorotoluene	U		0.00155	0.00687	1	09/24/2019 14:59	WG1350957	
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00701	0.0344	1	09/24/2019 14:59	WG1350957	
1,2-Dibromoethane	U		0.000722	0.00344	1	09/24/2019 14:59	WG1350957	
Dibromomethane	U		0.00137	0.00687	1	09/24/2019 14:59	WG1350957	
1,2-Dichlorobenzene	U		0.00199	0.00687	1	09/24/2019 14:59	WG1350957	
1,3-Dichlorobenzene	U		0.00234	0.00687	1	09/24/2019 14:59	WG1350957	
1,4-Dichlorobenzene	U		0.00271	0.00687	1	09/24/2019 14:59	WG1350957	
Dichlorodifluoromethane	U		0.00112	0.00344	1	09/24/2019 14:59	WG1350957	
1,1-Dichloroethane	U		0.000790	0.00344	1	09/24/2019 14:59	WG1350957	
1,2-Dichloroethane	U		0.000653	0.00344	1	09/24/2019 14:59	WG1350957	
1,1-Dichloroethene	U		0.000687	0.00344	1	09/24/2019 14:59	WG1350957	
cis-1,2-Dichloroethene	U		0.000948	0.00344	1	09/24/2019 14:59	WG1350957	
trans-1,2-Dichloroethene	U		0.00197	0.00687	1	09/24/2019 14:59	WG1350957	
1,2-Dichloropropane	U		0.00175	0.00687	1	09/24/2019 14:59	WG1350957	
1,1-Dichloropropene	U		0.000962	0.00344	1	09/24/2019 14:59	WG1350957	
1,3-Dichloropropane	U		0.00241	0.00687	1	09/24/2019 14:59	WG1350957	
cis-1,3-Dichloropropene	U		0.000932	0.00344	1	09/24/2019 14:59	WG1350957	
trans-1,3-Dichloropropene	U		0.00210	0.00687	1	09/24/2019 14:59	WG1350957	
trans-1,4-Dichloro-2-butene	U		0.00192	0.00687	1	09/24/2019 14:59	WG1350957	
2,2-Dichloropropane	U		0.00109	0.00344	1	09/24/2019 14:59	WG1350957	
Di-isopropyl ether	U		0.000481	0.00137	1	09/24/2019 14:59	WG1350957	
Ethylbenzene	U		0.000728	0.00344	1	09/24/2019 14:59	WG1350957	
Hexachloro-1,3-butadiene	U		0.0175	0.0344	1	09/24/2019 14:59	WG1350957	
2-Hexanone	U	UJ J0	0.0137	0.0344	1	09/24/2019 14:59	WG1350957	
n-Hexane	U	UJ J0	0.00146	0.00687	1	09/24/2019 14:59	WG1350957	
Iodomethane	U		0.00832	0.0172	1	09/24/2019 14:59	WG1350957	
Isopropylbenzene	U		0.00119	0.00344	1	09/24/2019 14:59	WG1350957	
p-Isopropyltoluene	U		0.00320	0.00687	1	09/24/2019 14:59	WG1350957	
2-Butanone (MEK)	0.0178	J J	0.0172	0.0344	1	09/24/2019 14:59	WG1350957	
Methylene Chloride	U		0.00913	0.0344	1	09/24/2019 14:59	WG1350957	JC 11/11/19
4-Methyl-2-pentanone (MIBK)	U		0.0137	0.0344	1	09/24/2019 14:59	WG1350957	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000405	0.00137	1	09/24/2019 14:59	WG1350957
Naphthalene	U			0.00429	0.0172	1	09/24/2019 14:59	WG1350957
n-Propylbenzene	U			0.00162	0.00687	1	09/24/2019 14:59	WG1350957
Styrene	U			0.00375	0.0172	1	09/24/2019 14:59	WG1350957
1,1,1,2-Tetrachloroethane	U			0.000687	0.00344	1	09/24/2019 14:59	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ	J0 J4	0.000536	0.00344	1	09/24/2019 14:59	WG1350957
1,1,2-Trichlorotrifluoroethane	U			0.000928	0.00344	1	09/24/2019 14:59	WG1350957
Tetrachloroethene	U			0.000962	0.00344	1	09/24/2019 14:59	WG1350957
Toluene	0.00851			0.00172	0.00687	1	09/24/2019 14:59	WG1350957
1,2,3-Trichlorobenzene	U			0.000859	0.00344	1	09/24/2019 14:59	WG1350957
1,2,4-Trichlorobenzene	U			0.00662	0.0172	1	09/24/2019 14:59	WG1350957
1,1,1-Trichloroethane	U			0.000378	0.00344	1	09/24/2019 14:59	WG1350957
1,1,2-Trichloroethane	U			0.00121	0.00344	1	09/24/2019 14:59	WG1350957
Trichloroethene	U			0.000550	0.00137	1	09/24/2019 14:59	WG1350957
Trichlorofluoromethane	U			0.000687	0.00344	1	09/24/2019 14:59	WG1350957
1,2,3-Trichloropropane	U			0.00701	0.0172	1	09/24/2019 14:59	WG1350957
1,2,4-Trimethylbenzene	U			0.00159	0.00687	1	09/24/2019 14:59	WG1350957
1,2,3-Trimethylbenzene	U			0.00158	0.00687	1	09/24/2019 14:59	WG1350957
1,3,5-Trimethylbenzene	U			0.00148	0.00687	1	09/24/2019 14:59	WG1350957
Vinyl acetate	U	UJ	J0	0.00484	0.0172	1	09/24/2019 14:59	WG1350957
Vinyl chloride	U			0.000939	0.00344	1	09/24/2019 14:59	WG1350957
Xylenes, Total	U			0.00657	0.00893	1	09/24/2019 14:59	WG1350957
(S) Toluene-d8	*111*				*75.0-131*		*09/24/2019 14:59*	WG1350957
(S) 4-Bromofluorobenzene	*100*				*67.0-138*		*09/24/2019 14:59*	WG1350957
(S) 1,2-Dichloroethane-d4	*102*				*70.0-130*		*09/24/2019 14:59*	WG1350957

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.5		1	09/25/2019 15:37	WG1351913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0297	U J	0.0168	0.0307	1	09/24/2019 15:19	WG1350957
Acrylonitrile	U	UJ J0	0.00233	0.0153	1	09/24/2019 15:19	WG1350957
Benzene	U		0.000491	0.00123	1	09/24/2019 15:19	WG1350957
Bromobenzene	U		0.00129	0.0153	1	09/24/2019 15:19	WG1350957
Bromodichloromethane	U		0.000967	0.00307	1	09/24/2019 15:19	WG1350957
Bromochloromethane	U		0.00139	0.00614	1	09/24/2019 15:19	WG1350957
Bromoform	U		0.00734	0.0307	1	09/24/2019 15:19	WG1350957
Bromomethane	U		0.00454	0.0153	1	09/24/2019 15:19	WG1350957
n-Butylbenzene	U		0.00471	0.0153	1	09/24/2019 15:19	WG1350957
sec-Butylbenzene	U		0.00311	0.0153	1	09/24/2019 15:19	WG1350957
tert-Butylbenzene	U		0.00190	0.00614	1	09/24/2019 15:19	WG1350957
Carbon disulfide	U		0.00498	0.0153	1	09/24/2019 15:19	WG1350957
Carbon tetrachloride	U		0.00133	0.00614	1	09/24/2019 15:19	WG1350957
Chlorobenzene	U		0.000703	0.00307	1	09/24/2019 15:19	WG1350957
Chlorodibromomethane	U		0.000552	0.00307	1	09/24/2019 15:19	WG1350957
Chloroethane	U		0.00133	0.00614	1	09/24/2019 15:19	WG1350957
Chloroform	U		0.000509	0.00307	1	09/24/2019 15:19	WG1350957
Chloromethane	U		0.00171	0.0153	1	09/24/2019 15:19	WG1350957
2-Chlorotoluene	U		0.00113	0.00307	1	09/24/2019 15:19	WG1350957
4-Chlorotoluene	U		0.00139	0.00614	1	09/24/2019 15:19	WG1350957
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00626	0.0307	1	09/24/2019 15:19	WG1350957
1,2-Dibromoethane	U		0.000644	0.00307	1	09/24/2019 15:19	WG1350957
Dibromomethane	U		0.00123	0.00614	1	09/24/2019 15:19	WG1350957
1,2-Dichlorobenzene	U		0.00178	0.00614	1	09/24/2019 15:19	WG1350957
1,3-Dichlorobenzene	U		0.00209	0.00614	1	09/24/2019 15:19	WG1350957
1,4-Dichlorobenzene	U		0.00242	0.00614	1	09/24/2019 15:19	WG1350957
Dichlorodifluoromethane	U		0.00100	0.00307	1	09/24/2019 15:19	WG1350957
1,1-Dichloroethane	U		0.000706	0.00307	1	09/24/2019 15:19	WG1350957
1,2-Dichloroethane	U		0.000583	0.00307	1	09/24/2019 15:19	WG1350957
1,1-Dichloroethene	U		0.000614	0.00307	1	09/24/2019 15:19	WG1350957
cis-1,2-Dichloroethene	U		0.000847	0.00307	1	09/24/2019 15:19	WG1350957
trans-1,2-Dichloroethene	U		0.00176	0.00614	1	09/24/2019 15:19	WG1350957
1,2-Dichloropropane	U		0.00156	0.00614	1	09/24/2019 15:19	WG1350957
1,1-Dichloropropene	U		0.000859	0.00307	1	09/24/2019 15:19	WG1350957
1,3-Dichloropropane	U		0.00215	0.00614	1	09/24/2019 15:19	WG1350957
cis-1,3-Dichloropropene	U		0.000832	0.00307	1	09/24/2019 15:19	WG1350957
trans-1,3-Dichloropropene	U		0.00188	0.00614	1	09/24/2019 15:19	WG1350957
trans-1,4-Dichloro-2-butene	U		0.00172	0.00614	1	09/24/2019 15:19	WG1350957
2,2-Dichloropropane	U		0.000973	0.00307	1	09/24/2019 15:19	WG1350957
Di-isopropyl ether	U		0.000430	0.00123	1	09/24/2019 15:19	WG1350957
Ethylbenzene	U		0.000651	0.00307	1	09/24/2019 15:19	WG1350957
Hexachloro-1,3-butadiene	U		0.0156	0.0307	1	09/24/2019 15:19	WG1350957
2-Hexanone	U	UJ J0	0.0123	0.0307	1	09/24/2019 15:19	WG1350957
n-Hexane	U	UJ J0	0.00130	0.00614	1	09/24/2019 15:19	WG1350957
Iodomethane	U		0.00743	0.0153	1	09/24/2019 15:19	WG1350957
Isopropylbenzene	U		0.00106	0.00307	1	09/24/2019 15:19	WG1350957
p-Isopropyltoluene	U		0.00286	0.00614	1	09/24/2019 15:19	WG1350957
2-Butanone (MEK)	U		0.0153	0.0307	1	09/24/2019 15:19	WG1350957
Methylene Chloride	U		0.00815	0.0307	1	09/24/2019 15:19	WG1350957
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0307	1	09/24/2019 15:19	WG1350957

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MW-328-15

Collected date/time: 09/16/19 11:10

SAMPLE RESULTS - 03

L1141285

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000362	0.00123	1	09/24/2019 15:19	WG1350957
Naphthalene	U		0.00383	0.0153	1	09/24/2019 15:19	WG1350957
n-Propylbenzene	U		0.00145	0.00614	1	09/24/2019 15:19	WG1350957
Styrene	U		0.00335	0.0153	1	09/24/2019 15:19	WG1350957
1,1,1,2-Tetrachloroethane	U		0.000614	0.00307	1	09/24/2019 15:19	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ J0 J4	0.000479	0.00307	1	09/24/2019 15:19	WG1350957
1,1,2-Trichlorotrifluoroethane	U		0.000829	0.00307	1	09/24/2019 15:19	WG1350957
Tetrachloroethene	U		0.000859	0.00307	1	09/24/2019 15:19	WG1350957
Toluene	0.00559	J J	0.00153	0.00614	1	09/24/2019 15:19	WG1350957
1,2,3-Trichlorobenzene	U		0.000767	0.00307	1	09/24/2019 15:19	WG1350957
1,2,4-Trichlorobenzene	U		0.00592	0.0153	1	09/24/2019 15:19	WG1350957
1,1,1-Trichloroethane	U		0.000338	0.00307	1	09/24/2019 15:19	WG1350957
1,1,2-Trichloroethane	U		0.00108	0.00307	1	09/24/2019 15:19	WG1350957
Trichloroethene	U		0.000491	0.00123	1	09/24/2019 15:19	WG1350957
Trichlorofluoromethane	U		0.000614	0.00307	1	09/24/2019 15:19	WG1350957
1,2,3-Trichloropropane	U		0.00626	0.0153	1	09/24/2019 15:19	WG1350957
1,2,4-Trimethylbenzene	U		0.00142	0.00614	1	09/24/2019 15:19	WG1350957
1,2,3-Trimethylbenzene	U		0.00141	0.00614	1	09/24/2019 15:19	WG1350957
1,3,5-Trimethylbenzene	U		0.00133	0.00614	1	09/24/2019 15:19	WG1350957
Vinyl acetate	U	UJ J0	0.00432	0.0153	1	09/24/2019 15:19	WG1350957
Vinyl chloride	U		0.000838	0.00307	1	09/24/2019 15:19	WG1350957
Xylenes, Total	U		0.00587	0.00798	1	09/24/2019 15:19	WG1350957
(S) Toluene-d8	*113*			*75.0-131*		*09/24/2019 15:19*	WG1350957
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*09/24/2019 15:19*	WG1350957
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*09/24/2019 15:19*	WG1350957

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.7		1	09/25/2019 15:37	WG1351913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0234	U	J	0.0164	0.0299	1	09/24/2019 15:40	WG1350957
Acrylonitrile	U	UJ	J0	0.00227	0.0149	1	09/24/2019 15:40	WG1350957
Benzene	0.000985	J	J	0.000478	0.00119	1	09/24/2019 15:40	WG1350957
Bromobenzene	U			0.00125	0.0149	1	09/24/2019 15:40	WG1350957
Bromodichloromethane	U			0.000941	0.00299	1	09/24/2019 15:40	WG1350957
Bromochloromethane	U			0.00135	0.00597	1	09/24/2019 15:40	WG1350957
Bromoform	U			0.00714	0.0299	1	09/24/2019 15:40	WG1350957
Bromomethane	U			0.00442	0.0149	1	09/24/2019 15:40	WG1350957
n-Butylbenzene	U			0.00459	0.0149	1	09/24/2019 15:40	WG1350957
sec-Butylbenzene	U			0.00302	0.0149	1	09/24/2019 15:40	WG1350957
tert-Butylbenzene	U			0.00185	0.00597	1	09/24/2019 15:40	WG1350957
Carbon disulfide	U			0.00485	0.0149	1	09/24/2019 15:40	WG1350957
Carbon tetrachloride	U			0.00129	0.00597	1	09/24/2019 15:40	WG1350957
Chlorobenzene	U			0.000684	0.00299	1	09/24/2019 15:40	WG1350957
Chlorodibromomethane	U			0.000537	0.00299	1	09/24/2019 15:40	WG1350957
Chloroethane	U			0.00129	0.00597	1	09/24/2019 15:40	WG1350957
Chloroform	U			0.000496	0.00299	1	09/24/2019 15:40	WG1350957
Chloromethane	U			0.00166	0.0149	1	09/24/2019 15:40	WG1350957
2-Chlorotoluene	U			0.00110	0.00299	1	09/24/2019 15:40	WG1350957
4-Chlorotoluene	U			0.00135	0.00597	1	09/24/2019 15:40	WG1350957
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00609	0.0299	1	09/24/2019 15:40	WG1350957
1,2-Dibromoethane	U			0.000627	0.00299	1	09/24/2019 15:40	WG1350957
Dibromomethane	U			0.00119	0.00597	1	09/24/2019 15:40	WG1350957
1,2-Dichlorobenzene	U			0.00173	0.00597	1	09/24/2019 15:40	WG1350957
1,3-Dichlorobenzene	U			0.00203	0.00597	1	09/24/2019 15:40	WG1350957
1,4-Dichlorobenzene	U			0.00235	0.00597	1	09/24/2019 15:40	WG1350957
Dichlorodifluoromethane	U			0.000977	0.00299	1	09/24/2019 15:40	WG1350957
1,1-Dichloroethane	U			0.000687	0.00299	1	09/24/2019 15:40	WG1350957
1,2-Dichloroethane	U			0.000567	0.00299	1	09/24/2019 15:40	WG1350957
1,1-Dichloroethene	U			0.000597	0.00299	1	09/24/2019 15:40	WG1350957
cis-1,2-Dichloroethene	0.0304			0.000824	0.00299	1	09/24/2019 15:40	WG1350957
trans-1,2-Dichloroethene	U			0.00171	0.00597	1	09/24/2019 15:40	WG1350957
1,2-Dichloropropane	U			0.00152	0.00597	1	09/24/2019 15:40	WG1350957
1,1-Dichloropropene	U			0.000836	0.00299	1	09/24/2019 15:40	WG1350957
1,3-Dichloropropane	U			0.00209	0.00597	1	09/24/2019 15:40	WG1350957
cis-1,3-Dichloropropene	U			0.000810	0.00299	1	09/24/2019 15:40	WG1350957
trans-1,3-Dichloropropene	U			0.00183	0.00597	1	09/24/2019 15:40	WG1350957
trans-1,4-Dichloro-2-butene	U			0.00167	0.00597	1	09/24/2019 15:40	WG1350957
2,2-Dichloropropane	U			0.000947	0.00299	1	09/24/2019 15:40	WG1350957
Di-isopropyl ether	U			0.000418	0.00119	1	09/24/2019 15:40	WG1350957
Ethylbenzene	U			0.000633	0.00299	1	09/24/2019 15:40	WG1350957
Hexachloro-1,3-butadiene	U			0.0152	0.0299	1	09/24/2019 15:40	WG1350957
2-Hexanone	U	UJ	J0	0.0119	0.0299	1	09/24/2019 15:40	WG1350957
n-Hexane	U	UJ	J0	0.00127	0.00597	1	09/24/2019 15:40	WG1350957
Iodomethane	U			0.00722	0.0149	1	09/24/2019 15:40	WG1350957
Isopropylbenzene	U			0.00103	0.00299	1	09/24/2019 15:40	WG1350957
p-Isopropyltoluene	0.00631			0.00278	0.00597	1	09/24/2019 15:40	WG1350957
2-Butanone (MEK)	U			0.0149	0.0299	1	09/24/2019 15:40	WG1350957
Methylene Chloride	U			0.00793	0.0299	1	09/24/2019 15:40	WG1350957
4-Methyl-2-pentanone (MIBK)	U			0.0119	0.0299	1	09/24/2019 15:40	WG1350957

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	09/24/2019 15:40	WG1350957
Naphthalene	U		0.00373	0.0149	1	09/24/2019 15:40	WG1350957
n-Propylbenzene	U		0.00141	0.00597	1	09/24/2019 15:40	WG1350957
Styrene	U		0.00326	0.0149	1	09/24/2019 15:40	WG1350957
1,1,1,2-Tetrachloroethane	U		0.000597	0.00299	1	09/24/2019 15:40	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ J0 J4	0.000466	0.00299	1	09/24/2019 15:40	WG1350957
1,1,2-Trichlorotrifluoroethane	U		0.000806	0.00299	1	09/24/2019 15:40	WG1350957
Tetrachloroethene	U		0.000836	0.00299	1	09/24/2019 15:40	WG1350957
Toluene	0.0178		0.00149	0.00597	1	09/24/2019 15:40	WG1350957
1,2,3-Trichlorobenzene	U		0.000746	0.00299	1	09/24/2019 15:40	WG1350957
1,2,4-Trichlorobenzene	U		0.00576	0.0149	1	09/24/2019 15:40	WG1350957
1,1,1-Trichloroethane	U		0.000328	0.00299	1	09/24/2019 15:40	WG1350957
1,1,2-Trichloroethane	U		0.00105	0.00299	1	09/24/2019 15:40	WG1350957
Trichloroethene	U		0.000478	0.00119	1	09/24/2019 15:40	WG1350957
Trichlorofluoromethane	U		0.000597	0.00299	1	09/24/2019 15:40	WG1350957
1,2,3-Trichloropropane	U		0.00609	0.0149	1	09/24/2019 15:40	WG1350957
1,2,4-Trimethylbenzene	U		0.00139	0.00597	1	09/24/2019 15:40	WG1350957
1,2,3-Trimethylbenzene	U		0.00137	0.00597	1	09/24/2019 15:40	WG1350957
1,3,5-Trimethylbenzene	U		0.00129	0.00597	1	09/24/2019 15:40	WG1350957
Vinyl acetate	U	UJ J0	0.00420	0.0149	1	09/24/2019 15:40	WG1350957
Vinyl chloride	U		0.000816	0.00299	1	09/24/2019 15:40	WG1350957
Xylenes, Total	U		0.00571	0.00776	1	09/24/2019 15:40	WG1350957
(S) Toluene-d8	*113*			*75.0-131*		*09/24/2019 15:40*	WG1350957
(S) 4-Bromofluorobenzene	*98.7*			*67.0-138*		*09/24/2019 15:40*	WG1350957
(S) 1,2-Dichloroethane-d4	*92.1*			*70.0-130*		*09/24/2019 15:40*	WG1350957

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.6		1	09/25/2019 15:37	WG1351913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.988		0.323	0.589	18.52	09/24/2019 16:00	WG1350957
Acrylonitrile	U	UJ J0	0.0448	0.295	18.52	09/24/2019 16:00	WG1350957
Benzene	U		0.00943	0.0236	18.52	09/24/2019 16:00	WG1350957
Bromobenzene	U		0.0247	0.295	18.52	09/24/2019 16:00	WG1350957
Bromodichloromethane	U		0.0186	0.0589	18.52	09/24/2019 16:00	WG1350957
Bromochloromethane	U		0.0266	0.118	18.52	09/24/2019 16:00	WG1350957
Bromoform	U		0.141	0.589	18.52	09/24/2019 16:00	WG1350957
Bromomethane	U		0.0872	0.295	18.52	09/24/2019 16:00	WG1350957
n-Butylbenzene	U		0.0905	0.295	18.52	09/24/2019 16:00	WG1350957
sec-Butylbenzene	U		0.0596	0.295	18.52	09/24/2019 16:00	WG1350957
tert-Butylbenzene	U		0.0365	0.118	18.52	09/24/2019 16:00	WG1350957
Carbon disulfide	U		0.0957	0.295	18.52	09/24/2019 16:00	WG1350957
Carbon tetrachloride	U		0.0255	0.118	18.52	09/24/2019 16:00	WG1350957
Chlorobenzene	U		0.0135	0.0589	18.52	09/24/2019 16:00	WG1350957
Chlorodibromomethane	U		0.0106	0.0589	18.52	09/24/2019 16:00	WG1350957
Chloroethane	U		0.0255	0.118	18.52	09/24/2019 16:00	WG1350957
Chloroform	U		0.00978	0.0589	18.52	09/24/2019 16:00	WG1350957
Chloromethane	U		0.0327	0.295	18.52	09/24/2019 16:00	WG1350957
2-Chlorotoluene	U		0.0216	0.0589	18.52	09/24/2019 16:00	WG1350957
4-Chlorotoluene	U		0.0266	0.118	18.52	09/24/2019 16:00	WG1350957
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.120	0.589	18.52	09/24/2019 16:00	WG1350957
1,2-Dibromoethane	U		0.0124	0.0589	18.52	09/24/2019 16:00	WG1350957
Dibromomethane	U		0.0236	0.118	18.52	09/24/2019 16:00	WG1350957
1,2-Dichlorobenzene	U		0.0341	0.118	18.52	09/24/2019 16:00	WG1350957
1,3-Dichlorobenzene	U		0.0401	0.118	18.52	09/24/2019 16:00	WG1350957
1,4-Dichlorobenzene	U		0.0465	0.118	18.52	09/24/2019 16:00	WG1350957
Dichlorodifluoromethane	U		0.0192	0.0589	18.52	09/24/2019 16:00	WG1350957
1,1-Dichloroethane	U		0.0135	0.0589	18.52	09/24/2019 16:00	WG1350957
1,2-Dichloroethane	U		0.0112	0.0589	18.52	09/24/2019 16:00	WG1350957
1,1-Dichloroethene	U		0.0118	0.0589	18.52	09/24/2019 16:00	WG1350957
cis-1,2-Dichloroethene	U		0.0163	0.0589	18.52	09/24/2019 16:00	WG1350957
trans-1,2-Dichloroethene	U		0.0337	0.118	18.52	09/24/2019 16:00	WG1350957
1,2-Dichloropropane	U		0.0299	0.118	18.52	09/24/2019 16:00	WG1350957
1,1-Dichloropropene	U		0.0165	0.0589	18.52	09/24/2019 16:00	WG1350957
1,3-Dichloropropane	U		0.0412	0.118	18.52	09/24/2019 16:00	WG1350957
cis-1,3-Dichloropropene	U		0.0160	0.0589	18.52	09/24/2019 16:00	WG1350957
trans-1,3-Dichloropropene	U		0.0360	0.118	18.52	09/24/2019 16:00	WG1350957
trans-1,4-Dichloro-2-butene	U		0.0330	0.118	18.52	09/24/2019 16:00	WG1350957
2,2-Dichloropropane	U		0.0187	0.0589	18.52	09/24/2019 16:00	WG1350957
Di-isopropyl ether	U		0.00825	0.0236	18.52	09/24/2019 16:00	WG1350957
Ethylbenzene	U		0.0125	0.0589	18.52	09/24/2019 16:00	WG1350957
Hexachloro-1,3-butadiene	U		0.299	0.589	18.52	09/24/2019 16:00	WG1350957
2-Hexanone	U	UJ J0	0.236	0.589	18.52	09/24/2019 16:00	WG1350957
n-Hexane	0.130	UJ J0	0.0250	0.118	18.52	09/24/2019 16:00	WG1350957
Iodomethane	U		0.143	0.295	18.52	09/24/2019 16:00	WG1350957
Isopropylbenzene	U		0.0204	0.0589	18.52	09/24/2019 16:00	WG1350957
p-Isopropyltoluene	U		0.0550	0.118	18.52	09/24/2019 16:00	WG1350957
2-Butanone (MEK)	U		0.295	0.589	18.52	09/24/2019 16:00	WG1350957
Methylene Chloride	U		0.157	0.589	18.52	09/24/2019 16:00	WG1350957
4-Methyl-2-pentanone (MIBK)	U		0.236	0.589	18.52	09/24/2019 16:00	WG1350957

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.00695	0.0236	18.52	09/24/2019 16:00	WG1350957
Naphthalene	U			0.0736	0.295	18.52	09/24/2019 16:00	WG1350957
n-Propylbenzene	U			0.0278	0.118	18.52	09/24/2019 16:00	WG1350957
Styrene	U			0.0644	0.295	18.52	09/24/2019 16:00	WG1350957
1,1,1,2-Tetrachloroethane	U			0.0118	0.0589	18.52	09/24/2019 16:00	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ	J0 J4	0.00919	0.0589	18.52	09/24/2019 16:00	WG1350957
1,1,2-Trichlorotrifluoroethane	U			0.0159	0.0589	18.52	09/24/2019 16:00	WG1350957
Tetrachloroethene	U			0.0165	0.0589	18.52	09/24/2019 16:00	WG1350957
Toluene	0.207			0.0295	0.118	18.52	09/24/2019 16:00	WG1350957
1,2,3-Trichlorobenzene	U			0.0148	0.0589	18.52	09/24/2019 16:00	WG1350957
1,2,4-Trichlorobenzene	U			0.114	0.295	18.52	09/24/2019 16:00	WG1350957
1,1,1-Trichloroethane	U			0.00648	0.0589	18.52	09/24/2019 16:00	WG1350957
1,1,2-Trichloroethane	U			0.0209	0.0589	18.52	09/24/2019 16:00	WG1350957
Trichloroethene	U			0.00943	0.0236	18.52	09/24/2019 16:00	WG1350957
Trichlorofluoromethane	0.0466	J	J	0.0118	0.0589	18.52	09/24/2019 16:00	WG1350957
1,2,3-Trichloropropane	U			0.120	0.295	18.52	09/24/2019 16:00	WG1350957
1,2,4-Trimethylbenzene	U			0.0274	0.118	18.52	09/24/2019 16:00	WG1350957
1,2,3-Trimethylbenzene	U			0.0271	0.118	18.52	09/24/2019 16:00	WG1350957
1,3,5-Trimethylbenzene	U			0.0255	0.118	18.52	09/24/2019 16:00	WG1350957
Vinyl acetate	U	UJ	J0	0.0830	0.295	18.52	09/24/2019 16:00	WG1350957
Vinyl chloride	U			0.0160	0.0589	18.52	09/24/2019 16:00	WG1350957
Xylenes, Total	U			0.113	0.153	18.52	09/24/2019 16:00	WG1350957
(S) Toluene-d8	*112*				*75.0-131*		*09/24/2019 16:00*	WG1350957
(S) 4-Bromofluorobenzene	*99.7*				*67.0-138*		*09/24/2019 16:00*	WG1350957
(S) 1,2-Dichloroethane-d4	*98.4*				*70.0-130*		*09/24/2019 16:00*	WG1350957

Sample Narrative:

L1141285-05 WG1350957: Lowest possible dilution due to sample prep factor.

JC 11/11/19

MW-328-35

Collected date/time: 09/16/19 11:30

SAMPLE RESULTS - 06

L1141285

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.5		1	09/25/2019 15:37	WG1351913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0851			0.0176	0.0321	1.06	09/24/2019 16:20	WG1350957
Acrylonitrile	U	UJ	J0	0.00244	0.0161	1.06	09/24/2019 16:20	WG1350957
Benzene	0.00117	J	J	0.000514	0.00129	1.06	09/24/2019 16:20	WG1350957
Bromobenzene	U			0.00135	0.0161	1.06	09/24/2019 16:20	WG1350957
Bromodichloromethane	U			0.00101	0.00321	1.06	09/24/2019 16:20	WG1350957
Bromochloromethane	U			0.00145	0.00643	1.06	09/24/2019 16:20	WG1350957
Bromoform	U			0.00769	0.0321	1.06	09/24/2019 16:20	WG1350957
Bromomethane	U			0.00475	0.0161	1.06	09/24/2019 16:20	WG1350957
n-Butylbenzene	U			0.00493	0.0161	1.06	09/24/2019 16:20	WG1350957
sec-Butylbenzene	U			0.00325	0.0161	1.06	09/24/2019 16:20	WG1350957
tert-Butylbenzene	U			0.00199	0.00643	1.06	09/24/2019 16:20	WG1350957
Carbon disulfide	U			0.00521	0.0161	1.06	09/24/2019 16:20	WG1350957
Carbon tetrachloride	U			0.00138	0.00643	1.06	09/24/2019 16:20	WG1350957
Chlorobenzene	U			0.000736	0.00321	1.06	09/24/2019 16:20	WG1350957
Chlorodibromomethane	U			0.000578	0.00321	1.06	09/24/2019 16:20	WG1350957
Chloroethane	U			0.00138	0.00643	1.06	09/24/2019 16:20	WG1350957
Chloroform	U			0.000533	0.00321	1.06	09/24/2019 16:20	WG1350957
Chloromethane	U			0.00178	0.0161	1.06	09/24/2019 16:20	WG1350957
2-Chlorotoluene	U			0.00118	0.00321	1.06	09/24/2019 16:20	WG1350957
4-Chlorotoluene	U			0.00145	0.00643	1.06	09/24/2019 16:20	WG1350957
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00656	0.0321	1.06	09/24/2019 16:20	WG1350957
1,2-Dibromoethane	U			0.000674	0.00321	1.06	09/24/2019 16:20	WG1350957
Dibromomethane	U			0.00129	0.00643	1.06	09/24/2019 16:20	WG1350957
1,2-Dichlorobenzene	U			0.00187	0.00643	1.06	09/24/2019 16:20	WG1350957
1,3-Dichlorobenzene	U			0.00218	0.00643	1.06	09/24/2019 16:20	WG1350957
1,4-Dichlorobenzene	U			0.00253	0.00643	1.06	09/24/2019 16:20	WG1350957
Dichlorodifluoromethane	U			0.00105	0.00321	1.06	09/24/2019 16:20	WG1350957
1,1-Dichloroethane	U			0.000740	0.00321	1.06	09/24/2019 16:20	WG1350957
1,2-Dichloroethane	U			0.000611	0.00321	1.06	09/24/2019 16:20	WG1350957
1,1-Dichloroethene	U			0.000643	0.00321	1.06	09/24/2019 16:20	WG1350957
cis-1,2-Dichloroethene	U			0.000886	0.00321	1.06	09/24/2019 16:20	WG1350957
trans-1,2-Dichloroethene	U			0.00184	0.00643	1.06	09/24/2019 16:20	WG1350957
1,2-Dichloropropane	U			0.00164	0.00643	1.06	09/24/2019 16:20	WG1350957
1,1-Dichloropropene	U			0.000900	0.00321	1.06	09/24/2019 16:20	WG1350957
1,3-Dichloropropane	U			0.00226	0.00643	1.06	09/24/2019 16:20	WG1350957
cis-1,3-Dichloropropene	U			0.000872	0.00321	1.06	09/24/2019 16:20	WG1350957
trans-1,3-Dichloropropene	U			0.00196	0.00643	1.06	09/24/2019 16:20	WG1350957
trans-1,4-Dichloro-2-butene	U			0.00179	0.00643	1.06	09/24/2019 16:20	WG1350957
2,2-Dichloropropane	U			0.00102	0.00321	1.06	09/24/2019 16:20	WG1350957
Di-isopropyl ether	U			0.000450	0.00129	1.06	09/24/2019 16:20	WG1350957
Ethylbenzene	U			0.000681	0.00321	1.06	09/24/2019 16:20	WG1350957
Hexachloro-1,3-butadiene	U			0.0164	0.0321	1.06	09/24/2019 16:20	WG1350957
2-Hexanone	U	UJ	J0	0.0129	0.0321	1.06	09/24/2019 16:20	WG1350957
n-Hexane	0.00384	J	J J0	0.00136	0.00643	1.06	09/24/2019 16:20	WG1350957
Iodomethane	U			0.00777	0.0161	1.06	09/24/2019 16:20	WG1350957
Isopropylbenzene	U			0.00111	0.00321	1.06	09/24/2019 16:20	WG1350957
p-Isopropyltoluene	0.00376	J	J	0.00299	0.00643	1.06	09/24/2019 16:20	WG1350957
2-Butanone (MEK)	0.0240	J	J	0.0160	0.0321	1.06	09/24/2019 16:20	WG1350957
Methylene Chloride	U			0.00854	0.0321	1.06	09/24/2019 16:20	WG1350957
4-Methyl-2-pentanone (MIBK)	U			0.0129	0.0321	1.06	09/24/2019 16:20	WG1350957

JC 11/11/19

MW-328-35

Collected date/time: 09/16/19 11:30

SAMPLE RESULTS - 06

L1141285

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000380	0.00129	1.06	09/24/2019 16:20	WG1350957
Naphthalene	U			0.00401	0.0161	1.06	09/24/2019 16:20	WG1350957
n-Propylbenzene	U			0.00152	0.00643	1.06	09/24/2019 16:20	WG1350957
Styrene	U			0.00350	0.0161	1.06	09/24/2019 16:20	WG1350957
1,1,1,2-Tetrachloroethane	U			0.000643	0.00321	1.06	09/24/2019 16:20	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ	J0 J4	0.000501	0.00321	1.06	09/24/2019 16:20	WG1350957
1,1,2-Trichlorotrifluoroethane	U			0.000868	0.00321	1.06	09/24/2019 16:20	WG1350957
Tetrachloroethene	U			0.000900	0.00321	1.06	09/24/2019 16:20	WG1350957
Toluene	0.00781			0.00160	0.00643	1.06	09/24/2019 16:20	WG1350957
1,2,3-Trichlorobenzene	U			0.000803	0.00321	1.06	09/24/2019 16:20	WG1350957
1,2,4-Trichlorobenzene	U			0.00620	0.0161	1.06	09/24/2019 16:20	WG1350957
1,1,1-Trichloroethane	U			0.000354	0.00321	1.06	09/24/2019 16:20	WG1350957
1,1,2-Trichloroethane	U			0.00113	0.00321	1.06	09/24/2019 16:20	WG1350957
Trichloroethene	U			0.000514	0.00129	1.06	09/24/2019 16:20	WG1350957
Trichlorofluoromethane	U			0.000643	0.00321	1.06	09/24/2019 16:20	WG1350957
1,2,3-Trichloropropane	U			0.00656	0.0161	1.06	09/24/2019 16:20	WG1350957
1,2,4-Trimethylbenzene	U			0.00149	0.00643	1.06	09/24/2019 16:20	WG1350957
1,2,3-Trimethylbenzene	U			0.00148	0.00643	1.06	09/24/2019 16:20	WG1350957
1,3,5-Trimethylbenzene	U			0.00138	0.00643	1.06	09/24/2019 16:20	WG1350957
Vinyl acetate	U	UJ	J0	0.00452	0.0161	1.06	09/24/2019 16:20	WG1350957
Vinyl chloride	U			0.000878	0.00321	1.06	09/24/2019 16:20	WG1350957
Xylenes, Total	U			0.00615	0.00835	1.06	09/24/2019 16:20	WG1350957
(S) Toluene-d8	*113*				*75.0-131*		*09/24/2019 16:20*	WG1350957
(S) 4-Bromofluorobenzene	*102*				*67.0-138*		*09/24/2019 16:20*	WG1350957
(S) 1,2-Dichloroethane-d4	*103*				*70.0-130*		*09/24/2019 16:20*	WG1350957

JC 11/11/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	34.3		1	09/25/2019 15:37	WG1351913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.437		0.0399	0.0728	1	09/24/2019 16:41	WG1350957
Acrylonitrile	U	UJ J0	0.00553	0.0364	1	09/24/2019 16:41	WG1350957
Benzene	U		0.00116	0.00291	1	09/24/2019 16:41	WG1350957
Bromobenzene	U		0.00306	0.0364	1	09/24/2019 16:41	WG1350957
Bromodichloromethane	U		0.00229	0.00728	1	09/24/2019 16:41	WG1350957
Bromochloromethane	U		0.00329	0.0146	1	09/24/2019 16:41	WG1350957
Bromoform	U		0.0174	0.0728	1	09/24/2019 16:41	WG1350957
Bromomethane	U		0.0108	0.0364	1	09/24/2019 16:41	WG1350957
n-Butylbenzene	U		0.0112	0.0364	1	09/24/2019 16:41	WG1350957
sec-Butylbenzene	U		0.00737	0.0364	1	09/24/2019 16:41	WG1350957
tert-Butylbenzene	U		0.00451	0.0146	1	09/24/2019 16:41	WG1350957
Carbon disulfide	U		0.0118	0.0364	1	09/24/2019 16:41	WG1350957
Carbon tetrachloride	U		0.00314	0.0146	1	09/24/2019 16:41	WG1350957
Chlorobenzene	U		0.00167	0.00728	1	09/24/2019 16:41	WG1350957
Chlorodibromomethane	U		0.00131	0.00728	1	09/24/2019 16:41	WG1350957
Chloroethane	U		0.00314	0.0146	1	09/24/2019 16:41	WG1350957
Chloroform	U		0.00121	0.00728	1	09/24/2019 16:41	WG1350957
Chloromethane	U		0.00405	0.0364	1	09/24/2019 16:41	WG1350957
2-Chlorotoluene	U		0.00268	0.00728	1	09/24/2019 16:41	WG1350957
4-Chlorotoluene	U		0.00329	0.0146	1	09/24/2019 16:41	WG1350957
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.0148	0.0728	1	09/24/2019 16:41	WG1350957
1,2-Dibromoethane	U		0.00153	0.00728	1	09/24/2019 16:41	WG1350957
Dibromomethane	U		0.00291	0.0146	1	09/24/2019 16:41	WG1350957
1,2-Dichlorobenzene	U		0.00422	0.0146	1	09/24/2019 16:41	WG1350957
1,3-Dichlorobenzene	U		0.00495	0.0146	1	09/24/2019 16:41	WG1350957
1,4-Dichlorobenzene	U		0.00574	0.0146	1	09/24/2019 16:41	WG1350957
Dichlorodifluoromethane	U		0.00238	0.00728	1	09/24/2019 16:41	WG1350957
1,1-Dichloroethane	U		0.00167	0.00728	1	09/24/2019 16:41	WG1350957
1,2-Dichloroethane	U		0.00138	0.00728	1	09/24/2019 16:41	WG1350957
1,1-Dichloroethene	U		0.00146	0.00728	1	09/24/2019 16:41	WG1350957
cis-1,2-Dichloroethene	U		0.00201	0.00728	1	09/24/2019 16:41	WG1350957
trans-1,2-Dichloroethene	U		0.00416	0.0146	1	09/24/2019 16:41	WG1350957
1,2-Dichloropropane	U		0.00370	0.0146	1	09/24/2019 16:41	WG1350957
1,1-Dichloropropene	U		0.00204	0.00728	1	09/24/2019 16:41	WG1350957
1,3-Dichloropropane	U		0.00510	0.0146	1	09/24/2019 16:41	WG1350957
cis-1,3-Dichloropropene	U		0.00197	0.00728	1	09/24/2019 16:41	WG1350957
trans-1,3-Dichloropropene	U		0.00445	0.0146	1	09/24/2019 16:41	WG1350957
trans-1,4-Dichloro-2-butene	U		0.00408	0.0146	1	09/24/2019 16:41	WG1350957
2,2-Dichloropropane	U		0.00231	0.00728	1	09/24/2019 16:41	WG1350957
Di-isopropyl ether	U		0.00102	0.00291	1	09/24/2019 16:41	WG1350957
Ethylbenzene	U		0.00154	0.00728	1	09/24/2019 16:41	WG1350957
Hexachloro-1,3-butadiene	U		0.0370	0.0728	1	09/24/2019 16:41	WG1350957
2-Hexanone	U	UJ J0	0.0291	0.0728	1	09/24/2019 16:41	WG1350957
n-Hexane	U	UJ J0	0.00309	0.0146	1	09/24/2019 16:41	WG1350957
Iodomethane	U		0.0176	0.0364	1	09/24/2019 16:41	WG1350957
Isopropylbenzene	U		0.00251	0.00728	1	09/24/2019 16:41	WG1350957
p-Isopropyltoluene	U		0.00678	0.0146	1	09/24/2019 16:41	WG1350957
2-Butanone (MEK)	0.0972		0.0364	0.0728	1	09/24/2019 16:41	WG1350957
Methylene Chloride	U		0.0193	0.0728	1	09/24/2019 16:41	WG1350957
4-Methyl-2-pentanone (MIBK)	U		0.0291	0.0728	1	09/24/2019 16:41	WG1350957

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000859	0.00291	1	09/24/2019 16:41	WG1350957
Naphthalene	U			0.00908	0.0364	1	09/24/2019 16:41	WG1350957
n-Propylbenzene	U			0.00344	0.0146	1	09/24/2019 16:41	WG1350957
Styrene	U			0.00795	0.0364	1	09/24/2019 16:41	WG1350957
1,1,1,2-Tetrachloroethane	U			0.00146	0.00728	1	09/24/2019 16:41	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ	J0 J4	0.00114	0.00728	1	09/24/2019 16:41	WG1350957
1,1,2-Trichlorotrifluoroethane	U			0.00197	0.00728	1	09/24/2019 16:41	WG1350957
Tetrachloroethene	U			0.00204	0.00728	1	09/24/2019 16:41	WG1350957
Toluene	0.00849	J	J	0.00364	0.0146	1	09/24/2019 16:41	WG1350957
1,2,3-Trichlorobenzene	U			0.00182	0.00728	1	09/24/2019 16:41	WG1350957
1,2,4-Trichlorobenzene	U			0.0140	0.0364	1	09/24/2019 16:41	WG1350957
1,1,1-Trichloroethane	U			0.000801	0.00728	1	09/24/2019 16:41	WG1350957
1,1,2-Trichloroethane	U			0.00257	0.00728	1	09/24/2019 16:41	WG1350957
Trichloroethene	U			0.00116	0.00291	1	09/24/2019 16:41	WG1350957
Trichlorofluoromethane	U			0.00146	0.00728	1	09/24/2019 16:41	WG1350957
1,2,3-Trichloropropane	U			0.0148	0.0364	1	09/24/2019 16:41	WG1350957
1,2,4-Trimethylbenzene	U			0.00338	0.0146	1	09/24/2019 16:41	WG1350957
1,2,3-Trimethylbenzene	U			0.00335	0.0146	1	09/24/2019 16:41	WG1350957
1,3,5-Trimethylbenzene	U			0.00314	0.0146	1	09/24/2019 16:41	WG1350957
Vinyl acetate	U	UJ	J0	0.0102	0.0364	1	09/24/2019 16:41	WG1350957
Vinyl chloride	U			0.00199	0.00728	1	09/24/2019 16:41	WG1350957
Xylenes, Total	U			0.0139	0.0189	1	09/24/2019 16:41	WG1350957
(S) Toluene-d8	*112*				*75.0-131*		*09/24/2019 16:41*	WG1350957
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/24/2019 16:41*	WG1350957
(S) 1,2-Dichloroethane-d4	*102*				*70.0-130*		*09/24/2019 16:41*	WG1350957

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.1		1	09/25/2019 15:37	WG1351913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0423		0.0169	0.0308	1	09/24/2019 17:01	WG1350957
Acrylonitrile	U	UJ J0	0.00234	0.0154	1	09/24/2019 17:01	WG1350957
Benzene	U		0.000493	0.00123	1	09/24/2019 17:01	WG1350957
Bromobenzene	U		0.00129	0.0154	1	09/24/2019 17:01	WG1350957
Bromodichloromethane	U		0.000972	0.00308	1	09/24/2019 17:01	WG1350957
Bromochloromethane	U		0.00139	0.00617	1	09/24/2019 17:01	WG1350957
Bromoform	U		0.00737	0.0308	1	09/24/2019 17:01	WG1350957
Bromomethane	U		0.00456	0.0154	1	09/24/2019 17:01	WG1350957
n-Butylbenzene	U		0.00473	0.0154	1	09/24/2019 17:01	WG1350957
sec-Butylbenzene	U		0.00312	0.0154	1	09/24/2019 17:01	WG1350957
tert-Butylbenzene	U		0.00191	0.00617	1	09/24/2019 17:01	WG1350957
Carbon disulfide	U		0.00501	0.0154	1	09/24/2019 17:01	WG1350957
Carbon tetrachloride	U		0.00133	0.00617	1	09/24/2019 17:01	WG1350957
Chlorobenzene	U		0.000707	0.00308	1	09/24/2019 17:01	WG1350957
Chlorodibromomethane	U		0.000555	0.00308	1	09/24/2019 17:01	WG1350957
Chloroethane	U		0.00133	0.00617	1	09/24/2019 17:01	WG1350957
Chloroform	U		0.000512	0.00308	1	09/24/2019 17:01	WG1350957
Chloromethane	U		0.00171	0.0154	1	09/24/2019 17:01	WG1350957
2-Chlorotoluene	U		0.00113	0.00308	1	09/24/2019 17:01	WG1350957
4-Chlorotoluene	U		0.00139	0.00617	1	09/24/2019 17:01	WG1350957
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00629	0.0308	1	09/24/2019 17:01	WG1350957
1,2-Dibromoethane	U		0.000647	0.00308	1	09/24/2019 17:01	WG1350957
Dibromomethane	U		0.00123	0.00617	1	09/24/2019 17:01	WG1350957
1,2-Dichlorobenzene	U		0.00179	0.00617	1	09/24/2019 17:01	WG1350957
1,3-Dichlorobenzene	U		0.00210	0.00617	1	09/24/2019 17:01	WG1350957
1,4-Dichlorobenzene	U		0.00243	0.00617	1	09/24/2019 17:01	WG1350957
Dichlorodifluoromethane	U		0.00101	0.00308	1	09/24/2019 17:01	WG1350957
1,1-Dichloroethane	U		0.000709	0.00308	1	09/24/2019 17:01	WG1350957
1,2-Dichloroethane	U		0.000586	0.00308	1	09/24/2019 17:01	WG1350957
1,1-Dichloroethene	U		0.000617	0.00308	1	09/24/2019 17:01	WG1350957
cis-1,2-Dichloroethene	U		0.000851	0.00308	1	09/24/2019 17:01	WG1350957
trans-1,2-Dichloroethene	U		0.00176	0.00617	1	09/24/2019 17:01	WG1350957
1,2-Dichloropropane	U		0.00157	0.00617	1	09/24/2019 17:01	WG1350957
1,1-Dichloropropene	U		0.000863	0.00308	1	09/24/2019 17:01	WG1350957
1,3-Dichloropropane	U		0.00216	0.00617	1	09/24/2019 17:01	WG1350957
cis-1,3-Dichloropropene	U		0.000836	0.00308	1	09/24/2019 17:01	WG1350957
trans-1,3-Dichloropropene	U		0.00189	0.00617	1	09/24/2019 17:01	WG1350957
trans-1,4-Dichloro-2-butene	U		0.00173	0.00617	1	09/24/2019 17:01	WG1350957
2,2-Dichloropropane	U		0.000978	0.00308	1	09/24/2019 17:01	WG1350957
Di-isopropyl ether	U		0.000432	0.00123	1	09/24/2019 17:01	WG1350957
Ethylbenzene	U		0.000654	0.00308	1	09/24/2019 17:01	WG1350957
Hexachloro-1,3-butadiene	U		0.0157	0.0308	1	09/24/2019 17:01	WG1350957
2-Hexanone	U	UJ J0	0.0123	0.0308	1	09/24/2019 17:01	WG1350957
n-Hexane	0.00241	J J J0	0.00131	0.00617	1	09/24/2019 17:01	WG1350957
Iodomethane	U		0.00746	0.0154	1	09/24/2019 17:01	WG1350957
Isopropylbenzene	U		0.00106	0.00308	1	09/24/2019 17:01	WG1350957
p-Isopropyltoluene	U		0.00287	0.00617	1	09/24/2019 17:01	WG1350957
2-Butanone (MEK)	U		0.0154	0.0308	1	09/24/2019 17:01	WG1350957
Methylene Chloride	U		0.00819	0.0308	1	09/24/2019 17:01	WG1350957
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0308	1	09/24/2019 17:01	WG1350957

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000364	0.00123	1	09/24/2019 17:01	WG1350957
Naphthalene	U			0.00385	0.0154	1	09/24/2019 17:01	WG1350957
n-Propylbenzene	U			0.00146	0.00617	1	09/24/2019 17:01	WG1350957
Styrene	U			0.00337	0.0154	1	09/24/2019 17:01	WG1350957
1,1,1,2-Tetrachloroethane	U			0.000617	0.00308	1	09/24/2019 17:01	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ	J0 J4	0.000481	0.00308	1	09/24/2019 17:01	WG1350957
1,1,2-Trichlorotrifluoroethane	U			0.000832	0.00308	1	09/24/2019 17:01	WG1350957
Tetrachloroethene	U			0.000863	0.00308	1	09/24/2019 17:01	WG1350957
Toluene	0.00519	J	J	0.00154	0.00617	1	09/24/2019 17:01	WG1350957
1,2,3-Trichlorobenzene	U			0.000771	0.00308	1	09/24/2019 17:01	WG1350957
1,2,4-Trichlorobenzene	U			0.00594	0.0154	1	09/24/2019 17:01	WG1350957
1,1,1-Trichloroethane	U			0.000339	0.00308	1	09/24/2019 17:01	WG1350957
1,1,2-Trichloroethane	U			0.00109	0.00308	1	09/24/2019 17:01	WG1350957
Trichloroethene	U			0.000493	0.00123	1	09/24/2019 17:01	WG1350957
Trichlorofluoromethane	0.00134	J	J	0.000617	0.00308	1	09/24/2019 17:01	WG1350957
1,2,3-Trichloropropane	U			0.00629	0.0154	1	09/24/2019 17:01	WG1350957
1,2,4-Trimethylbenzene	U			0.00143	0.00617	1	09/24/2019 17:01	WG1350957
1,2,3-Trimethylbenzene	U			0.00142	0.00617	1	09/24/2019 17:01	WG1350957
1,3,5-Trimethylbenzene	U			0.00133	0.00617	1	09/24/2019 17:01	WG1350957
Vinyl acetate	U	UJ	J0	0.00434	0.0154	1	09/24/2019 17:01	WG1350957
Vinyl chloride	U			0.000842	0.00308	1	09/24/2019 17:01	WG1350957
Xylenes, Total	U			0.00589	0.00801	1	09/24/2019 17:01	WG1350957
(S) Toluene-d8	*112*				*75.0-131*		*09/24/2019 17:01*	WG1350957
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/24/2019 17:01*	WG1350957
(S) 1,2-Dichloroethane-d4	*101*				*70.0-130*		*09/24/2019 17:01*	WG1350957

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.1		1	09/25/2019 15:37	WG1351913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	1.39	~~B~~	0.503	0.918	29.41	09/24/2019 05:31	WG1350809
Acrylonitrile	U	UJ J0	0.0698	0.459	29.41	09/24/2019 05:31	WG1350809
Benzene	U		0.0147	0.0367	29.41	09/24/2019 05:31	WG1350809
Bromobenzene	U		0.0386	0.459	29.41	09/24/2019 05:31	WG1350809
Bromodichloromethane	U		0.0290	0.0918	29.41	09/24/2019 05:31	WG1350809
Bromochloromethane	U		0.0414	0.184	29.41	09/24/2019 05:31	WG1350809
Bromoform	U		0.220	0.918	29.41	09/24/2019 05:31	WG1350809
Bromomethane	U		0.136	0.459	29.41	09/24/2019 05:31	WG1350809
n-Butylbenzene	U		0.141	0.459	29.41	09/24/2019 05:31	WG1350809
sec-Butylbenzene	U		0.0929	0.459	29.41	09/24/2019 05:31	WG1350809
tert-Butylbenzene	U		0.0569	0.184	29.41	09/24/2019 05:31	WG1350809
Carbon disulfide	U	UJ J0	0.149	0.459	29.41	09/24/2019 05:31	WG1350809
Carbon tetrachloride	U		0.0397	0.184	29.41	09/24/2019 05:31	WG1350809
Chlorobenzene	U		0.0210	0.0918	29.41	09/24/2019 05:31	WG1350809
Chlorodibromomethane	U		0.0165	0.0918	29.41	09/24/2019 05:31	WG1350809
Chloroethane	U		0.0397	0.184	29.41	09/24/2019 05:31	WG1350809
Chloroform	U		0.0152	0.0918	29.41	09/24/2019 05:31	WG1350809
Chloromethane	U		0.0510	0.459	29.41	09/24/2019 05:31	WG1350809
2-Chlorotoluene	U		0.0337	0.0918	29.41	09/24/2019 05:31	WG1350809
4-Chlorotoluene	U		0.0414	0.184	29.41	09/24/2019 05:31	WG1350809
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.187	0.918	29.41	09/24/2019 05:31	WG1350809
1,2-Dibromoethane	U		0.0192	0.0918	29.41	09/24/2019 05:31	WG1350809
Dibromomethane	U		0.0367	0.184	29.41	09/24/2019 05:31	WG1350809
1,2-Dichlorobenzene	U		0.0532	0.184	29.41	09/24/2019 05:31	WG1350809
1,3-Dichlorobenzene	U		0.0624	0.184	29.41	09/24/2019 05:31	WG1350809
1,4-Dichlorobenzene	U		0.0723	0.184	29.41	09/24/2019 05:31	WG1350809
Dichlorodifluoromethane	U		0.0300	0.0918	29.41	09/24/2019 05:31	WG1350809
1,1-Dichloroethane	U		0.0211	0.0918	29.41	09/24/2019 05:31	WG1350809
1,2-Dichloroethane	U		0.0175	0.0918	29.41	09/24/2019 05:31	WG1350809
1,1-Dichloroethene	U		0.0183	0.0918	29.41	09/24/2019 05:31	WG1350809
cis-1,2-Dichloroethene	U		0.0253	0.0918	29.41	09/24/2019 05:31	WG1350809
trans-1,2-Dichloroethene	U		0.0524	0.184	29.41	09/24/2019 05:31	WG1350809
1,2-Dichloropropane	U		0.0467	0.184	29.41	09/24/2019 05:31	WG1350809
1,1-Dichloropropene	U		0.0257	0.0918	29.41	09/24/2019 05:31	WG1350809
1,3-Dichloropropane	U		0.0643	0.184	29.41	09/24/2019 05:31	WG1350809
cis-1,3-Dichloropropene	U		0.0248	0.0918	29.41	09/24/2019 05:31	WG1350809
trans-1,3-Dichloropropene	U		0.0562	0.184	29.41	09/24/2019 05:31	WG1350809
trans-1,4-Dichloro-2-butene	U		0.0514	0.184	29.41	09/24/2019 05:31	WG1350809
2,2-Dichloropropane	U		0.0291	0.0918	29.41	09/24/2019 05:31	WG1350809
Di-isopropyl ether	U		0.0129	0.0367	29.41	09/24/2019 05:31	WG1350809
Ethylbenzene	U		0.0195	0.0918	29.41	09/24/2019 05:31	WG1350809
Hexachloro-1,3-butadiene	U		0.467	0.918	29.41	09/24/2019 05:31	WG1350809
2-Hexanone	U		0.367	0.918	29.41	09/24/2019 05:31	WG1350809
n-Hexane	0.152	J J J0	0.0389	0.184	29.41	09/24/2019 05:31	WG1350809
Iodomethane	U		0.222	0.459	29.41	09/24/2019 05:31	WG1350809
Isopropylbenzene	U		0.0317	0.0918	29.41	09/24/2019 05:31	WG1350809
p-Isopropyltoluene	U		0.0855	0.184	29.41	09/24/2019 05:31	WG1350809
2-Butanone (MEK)	U	UJ J0	0.459	0.918	29.41	09/24/2019 05:31	WG1350809
Methylene Chloride	U		0.243	0.918	29.41	09/24/2019 05:31	WG1350809
4-Methyl-2-pentanone (MIBK)	U		0.367	0.918	29.41	09/24/2019 05:31	WG1350809

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.0108	0.0367	29.41	09/24/2019 05:31	WG1350809
Naphthalene	U			0.115	0.459	29.41	09/24/2019 05:31	WG1350809
n-Propylbenzene	U			0.0433	0.184	29.41	09/24/2019 05:31	WG1350809
Styrene	U			0.100	0.459	29.41	09/24/2019 05:31	WG1350809
1,1,1,2-Tetrachloroethane	U			0.0183	0.0918	29.41	09/24/2019 05:31	WG1350809
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.0144	0.0918	29.41	09/24/2019 05:31	WG1350809
1,1,2-Trichlorotrifluoroethane	U			0.0247	0.0918	29.41	09/24/2019 05:31	WG1350809
Tetrachloroethene	U			0.0257	0.0918	29.41	09/24/2019 05:31	WG1350809
Toluene	0.299			0.0459	0.184	29.41	09/24/2019 05:31	WG1350809
1,2,3-Trichlorobenzene	U			0.0230	0.0918	29.41	09/24/2019 05:31	WG1350809
1,2,4-Trichlorobenzene	U			0.177	0.459	29.41	09/24/2019 05:31	WG1350809
1,1,1-Trichloroethane	U			0.0101	0.0918	29.41	09/24/2019 05:31	WG1350809
1,1,2-Trichloroethane	U			0.0324	0.0918	29.41	09/24/2019 05:31	WG1350809
Trichloroethene	U			0.0147	0.0367	29.41	09/24/2019 05:31	WG1350809
Trichlorofluoromethane	0.0638	J	J	0.0183	0.0918	29.41	09/24/2019 05:31	WG1350809
1,2,3-Trichloropropane	U			0.187	0.459	29.41	09/24/2019 05:31	WG1350809
1,2,4-Trimethylbenzene	U			0.0426	0.184	29.41	09/24/2019 05:31	WG1350809
1,2,3-Trimethylbenzene	U			0.0422	0.184	29.41	09/24/2019 05:31	WG1350809
1,3,5-Trimethylbenzene	U			0.0397	0.184	29.41	09/24/2019 05:31	WG1350809
Vinyl acetate	U	UJ	J0	0.130	0.459	29.41	09/24/2019 05:31	WG1350809
Vinyl chloride	U			0.0251	0.0918	29.41	09/24/2019 05:31	WG1350809
Xylenes, Total	U			0.175	0.239	29.41	09/24/2019 05:31	WG1350809
(S) Toluene-d8	*113*				*75.0-131*		*09/24/2019 05:31*	WG1350809
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/24/2019 05:31*	WG1350809
(S) 1,2-Dichloroethane-d4	*99.0*				*70.0-130*		*09/24/2019 05:31*	WG1350809

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.0		1	09/25/2019 16:26	WG1351915

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0665	~~B~~	0.0163	0.0298	1	09/24/2019 05:51	WG1350809
Acrylonitrile	U	UJ J0	0.00226	0.0149	1	09/24/2019 05:51	WG1350809
Benzene	U		0.000476	0.00119	1	09/24/2019 05:51	WG1350809
Bromobenzene	U		0.00125	0.0149	1	09/24/2019 05:51	WG1350809
Bromodichloromethane	U		0.000938	0.00298	1	09/24/2019 05:51	WG1350809
Bromochloromethane	U		0.00134	0.00595	1	09/24/2019 05:51	WG1350809
Bromoform	U		0.00712	0.0298	1	09/24/2019 05:51	WG1350809
Bromomethane	U		0.00440	0.0149	1	09/24/2019 05:51	WG1350809
n-Butylbenzene	U		0.00457	0.0149	1	09/24/2019 05:51	WG1350809
sec-Butylbenzene	U		0.00301	0.0149	1	09/24/2019 05:51	WG1350809
tert-Butylbenzene	U		0.00184	0.00595	1	09/24/2019 05:51	WG1350809
Carbon disulfide	U	UJ J0	0.00483	0.0149	1	09/24/2019 05:51	WG1350809
Carbon tetrachloride	U		0.00129	0.00595	1	09/24/2019 05:51	WG1350809
Chlorobenzene	U		0.000682	0.00298	1	09/24/2019 05:51	WG1350809
Chlorodibromomethane	U		0.000536	0.00298	1	09/24/2019 05:51	WG1350809
Chloroethane	U		0.00129	0.00595	1	09/24/2019 05:51	WG1350809
Chloroform	0.000538	U ~~B J~~	0.000494	0.00298	1	09/24/2019 05:51	WG1350809
Chloromethane	U		0.00165	0.0149	1	09/24/2019 05:51	WG1350809
2-Chlorotoluene	U		0.00110	0.00298	1	09/24/2019 05:51	WG1350809
4-Chlorotoluene	U		0.00134	0.00595	1	09/24/2019 05:51	WG1350809
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00607	0.0298	1	09/24/2019 05:51	WG1350809
1,2-Dibromoethane	U		0.000625	0.00298	1	09/24/2019 05:51	WG1350809
Dibromomethane	U		0.00119	0.00595	1	09/24/2019 05:51	WG1350809
1,2-Dichlorobenzene	U		0.00173	0.00595	1	09/24/2019 05:51	WG1350809
1,3-Dichlorobenzene	U		0.00202	0.00595	1	09/24/2019 05:51	WG1350809
1,4-Dichlorobenzene	U		0.00234	0.00595	1	09/24/2019 05:51	WG1350809
Dichlorodifluoromethane	U		0.000974	0.00298	1	09/24/2019 05:51	WG1350809
1,1-Dichloroethane	U		0.000684	0.00298	1	09/24/2019 05:51	WG1350809
1,2-Dichloroethane	U		0.000565	0.00298	1	09/24/2019 05:51	WG1350809
1,1-Dichloroethene	U		0.000595	0.00298	1	09/24/2019 05:51	WG1350809
cis-1,2-Dichloroethene	U		0.000821	0.00298	1	09/24/2019 05:51	WG1350809
trans-1,2-Dichloroethene	U		0.00170	0.00595	1	09/24/2019 05:51	WG1350809
1,2-Dichloropropane	U		0.00151	0.00595	1	09/24/2019 05:51	WG1350809
1,1-Dichloropropene	U		0.000833	0.00298	1	09/24/2019 05:51	WG1350809
1,3-Dichloropropane	U		0.00208	0.00595	1	09/24/2019 05:51	WG1350809
cis-1,3-Dichloropropene	U		0.000807	0.00298	1	09/24/2019 05:51	WG1350809
trans-1,3-Dichloropropene	U		0.00182	0.00595	1	09/24/2019 05:51	WG1350809
trans-1,4-Dichloro-2-butene	U		0.00167	0.00595	1	09/24/2019 05:51	WG1350809
2,2-Dichloropropane	U		0.000944	0.00298	1	09/24/2019 05:51	WG1350809
Di-isopropyl ether	U		0.000417	0.00119	1	09/24/2019 05:51	WG1350809
Ethylbenzene	U		0.000631	0.00298	1	09/24/2019 05:51	WG1350809
Hexachloro-1,3-butadiene	U		0.0151	0.0298	1	09/24/2019 05:51	WG1350809
2-Hexanone	U		0.0119	0.0298	1	09/24/2019 05:51	WG1350809
n-Hexane	U	UJ J0	0.00126	0.00595	1	09/24/2019 05:51	WG1350809
Iodomethane	U		0.00720	0.0149	1	09/24/2019 05:51	WG1350809
Isopropylbenzene	U		0.00103	0.00298	1	09/24/2019 05:51	WG1350809
p-Isopropyltoluene	U		0.00277	0.00595	1	09/24/2019 05:51	WG1350809
2-Butanone (MEK)	0.0199	J J J0	0.0149	0.0298	1	09/24/2019 05:51	WG1350809
Methylene Chloride	U		0.00790	0.0298	1	09/24/2019 05:51	WG1350809
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	09/24/2019 05:51	WG1350809

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000351	0.00119	1	09/24/2019 05:51	WG1350809
Naphthalene	U		0.00371	0.0149	1	09/24/2019 05:51	WG1350809
n-Propylbenzene	U		0.00140	0.00595	1	09/24/2019 05:51	WG1350809
Styrene	U		0.00325	0.0149	1	09/24/2019 05:51	WG1350809
1,1,1,2-Tetrachloroethane	U		0.000595	0.00298	1	09/24/2019 05:51	WG1350809
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000464	0.00298	1	09/24/2019 05:51	WG1350809
1,1,2-Trichlorotrifluoroethane	U		0.000803	0.00298	1	09/24/2019 05:51	WG1350809
Tetrachloroethene	U		0.000833	0.00298	1	09/24/2019 05:51	WG1350809
Toluene	0.00690		0.00149	0.00595	1	09/24/2019 05:51	WG1350809
1,2,3-Trichlorobenzene	U		0.000744	0.00298	1	09/24/2019 05:51	WG1350809
1,2,4-Trichlorobenzene	U		0.00574	0.0149	1	09/24/2019 05:51	WG1350809
1,1,1-Trichloroethane	U		0.000327	0.00298	1	09/24/2019 05:51	WG1350809
1,1,2-Trichloroethane	U		0.00105	0.00298	1	09/24/2019 05:51	WG1350809
Trichloroethene	U		0.000476	0.00119	1	09/24/2019 05:51	WG1350809
Trichlorofluoromethane	U		0.000595	0.00298	1	09/24/2019 05:51	WG1350809
1,2,3-Trichloropropane	U		0.00607	0.0149	1	09/24/2019 05:51	WG1350809
1,2,4-Trimethylbenzene	U		0.00138	0.00595	1	09/24/2019 05:51	WG1350809
1,2,3-Trimethylbenzene	U		0.00137	0.00595	1	09/24/2019 05:51	WG1350809
1,3,5-Trimethylbenzene	U		0.00129	0.00595	1	09/24/2019 05:51	WG1350809
Vinyl acetate	U	UJ J0	0.00419	0.0149	1	09/24/2019 05:51	WG1350809
Vinyl chloride	U		0.000813	0.00298	1	09/24/2019 05:51	WG1350809
Xylenes, Total	U		0.00569	0.00774	1	09/24/2019 05:51	WG1350809
(S) Toluene-d8	*110*			*75.0-131*		*09/24/2019 05:51*	WG1350809
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/24/2019 05:51*	WG1350809
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/24/2019 05:51*	WG1350809

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.2		1	09/25/2019 16:26	WG1351915

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0339		~~B~~	0.0165	0.0301	1	09/24/2019 06:11	WG1350809
Acrylonitrile	U	UJ	J0	0.00228	0.0150	1	09/24/2019 06:11	WG1350809
Benzene	U			0.000481	0.00120	1	09/24/2019 06:11	WG1350809
Bromobenzene	U			0.00126	0.0150	1	09/24/2019 06:11	WG1350809
Bromodichloromethane	U			0.000947	0.00301	1	09/24/2019 06:11	WG1350809
Bromochloromethane	U			0.00136	0.00601	1	09/24/2019 06:11	WG1350809
Bromoform	U			0.00719	0.0301	1	09/24/2019 06:11	WG1350809
Bromomethane	U			0.00445	0.0150	1	09/24/2019 06:11	WG1350809
n-Butylbenzene	U			0.00462	0.0150	1	09/24/2019 06:11	WG1350809
sec-Butylbenzene	U			0.00304	0.0150	1	09/24/2019 06:11	WG1350809
tert-Butylbenzene	U			0.00186	0.00601	1	09/24/2019 06:11	WG1350809
Carbon disulfide	U	UJ	J0	0.00488	0.0150	1	09/24/2019 06:11	WG1350809
Carbon tetrachloride	U			0.00130	0.00601	1	09/24/2019 06:11	WG1350809
Chlorobenzene	U			0.000689	0.00301	1	09/24/2019 06:11	WG1350809
Chlorodibromomethane	U			0.000541	0.00301	1	09/24/2019 06:11	WG1350809
Chloroethane	U			0.00130	0.00601	1	09/24/2019 06:11	WG1350809
Chloroform	U			0.000499	0.00301	1	09/24/2019 06:11	WG1350809
Chloromethane	U			0.00167	0.0150	1	09/24/2019 06:11	WG1350809
2-Chlorotoluene	U			0.00111	0.00301	1	09/24/2019 06:11	WG1350809
4-Chlorotoluene	U			0.00136	0.00601	1	09/24/2019 06:11	WG1350809
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00613	0.0301	1	09/24/2019 06:11	WG1350809
1,2-Dibromoethane	U			0.000631	0.00301	1	09/24/2019 06:11	WG1350809
Dibromomethane	U			0.00120	0.00601	1	09/24/2019 06:11	WG1350809
1,2-Dichlorobenzene	U			0.00174	0.00601	1	09/24/2019 06:11	WG1350809
1,3-Dichlorobenzene	U			0.00204	0.00601	1	09/24/2019 06:11	WG1350809
1,4-Dichlorobenzene	U			0.00237	0.00601	1	09/24/2019 06:11	WG1350809
Dichlorodifluoromethane	U			0.000984	0.00301	1	09/24/2019 06:11	WG1350809
1,1-Dichloroethane	U			0.000691	0.00301	1	09/24/2019 06:11	WG1350809
1,2-Dichloroethane	U			0.000571	0.00301	1	09/24/2019 06:11	WG1350809
1,1-Dichloroethene	U			0.000601	0.00301	1	09/24/2019 06:11	WG1350809
cis-1,2-Dichloroethene	U			0.000830	0.00301	1	09/24/2019 06:11	WG1350809
trans-1,2-Dichloroethene	U			0.00172	0.00601	1	09/24/2019 06:11	WG1350809
1,2-Dichloropropane	U			0.00153	0.00601	1	09/24/2019 06:11	WG1350809
1,1-Dichloropropene	U			0.000842	0.00301	1	09/24/2019 06:11	WG1350809
1,3-Dichloropropane	U			0.00210	0.00601	1	09/24/2019 06:11	WG1350809
cis-1,3-Dichloropropene	U			0.000815	0.00301	1	09/24/2019 06:11	WG1350809
trans-1,3-Dichloropropene	U			0.00184	0.00601	1	09/24/2019 06:11	WG1350809
trans-1,4-Dichloro-2-butene	U			0.00168	0.00601	1	09/24/2019 06:11	WG1350809
2,2-Dichloropropane	U			0.000954	0.00301	1	09/24/2019 06:11	WG1350809
Di-isopropyl ether	U			0.000421	0.00120	1	09/24/2019 06:11	WG1350809
Ethylbenzene	U			0.000637	0.00301	1	09/24/2019 06:11	WG1350809
Hexachloro-1,3-butadiene	U			0.0153	0.0301	1	09/24/2019 06:11	WG1350809
2-Hexanone	U			0.0120	0.0301	1	09/24/2019 06:11	WG1350809
n-Hexane	0.00311	J	J J0	0.00127	0.00601	1	09/24/2019 06:11	WG1350809
Iodomethane	U			0.00727	0.0150	1	09/24/2019 06:11	WG1350809
Isopropylbenzene	U			0.00104	0.00301	1	09/24/2019 06:11	WG1350809
p-Isopropyltoluene	U			0.00280	0.00601	1	09/24/2019 06:11	WG1350809
2-Butanone (MEK)	U	UJ	J0	0.0150	0.0301	1	09/24/2019 06:11	WG1350809
Methylene Chloride	U			0.00798	0.0301	1	09/24/2019 06:11	WG1350809
4-Methyl-2-pentanone (MIBK)	U			0.0120	0.0301	1	09/24/2019 06:11	WG1350809

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000355	0.00120	1	09/24/2019 06:11	WG1350809
Naphthalene	U		0.00375	0.0150	1	09/24/2019 06:11	WG1350809
n-Propylbenzene	U		0.00142	0.00601	1	09/24/2019 06:11	WG1350809
Styrene	U		0.00328	0.0150	1	09/24/2019 06:11	WG1350809
1,1,1,2-Tetrachloroethane	U		0.000601	0.00301	1	09/24/2019 06:11	WG1350809
1,1,2,2-Tetrachloroethane	U UJ	J0	0.000469	0.00301	1	09/24/2019 06:11	WG1350809
1,1,2-Trichlorotrifluoroethane	U		0.000812	0.00301	1	09/24/2019 06:11	WG1350809
Tetrachloroethene	U		0.000842	0.00301	1	09/24/2019 06:11	WG1350809
Toluene	0.00798		0.00150	0.00601	1	09/24/2019 06:11	WG1350809
1,2,3-Trichlorobenzene	U		0.000752	0.00301	1	09/24/2019 06:11	WG1350809
1,2,4-Trichlorobenzene	U		0.00580	0.0150	1	09/24/2019 06:11	WG1350809
1,1,1-Trichloroethane	U		0.000331	0.00301	1	09/24/2019 06:11	WG1350809
1,1,2-Trichloroethane	U		0.00106	0.00301	1	09/24/2019 06:11	WG1350809
Trichloroethene	U		0.000481	0.00120	1	09/24/2019 06:11	WG1350809
Trichlorofluoromethane	U		0.000601	0.00301	1	09/24/2019 06:11	WG1350809
1,2,3-Trichloropropane	U		0.00613	0.0150	1	09/24/2019 06:11	WG1350809
1,2,4-Trimethylbenzene	U		0.00139	0.00601	1	09/24/2019 06:11	WG1350809
1,2,3-Trimethylbenzene	U		0.00138	0.00601	1	09/24/2019 06:11	WG1350809
1,3,5-Trimethylbenzene	U		0.00130	0.00601	1	09/24/2019 06:11	WG1350809
Vinyl acetate	U UJ	J0	0.00423	0.0150	1	09/24/2019 06:11	WG1350809
Vinyl chloride	U		0.000821	0.00301	1	09/24/2019 06:11	WG1350809
Xylenes, Total	U		0.00575	0.00782	1	09/24/2019 06:11	WG1350809
(S) Toluene-d8	*114*			*75.0-131*		*09/24/2019 06:11*	WG1350809
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/24/2019 06:11*	WG1350809
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*09/24/2019 06:11*	WG1350809

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MW-328-65

Collected date/time: 09/16/19 12:15

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.8		1	09/25/2019 16:26	WG1351915

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0345	~~B~~	0.0160	0.0292	1	09/24/2019 06:32	WG1350809
Acrylonitrile	U	UJ J0	0.00222	0.0146	1	09/24/2019 06:32	WG1350809
Benzene	U		0.000466	0.00117	1	09/24/2019 06:32	WG1350809
Bromobenzene	U		0.00122	0.0146	1	09/24/2019 06:32	WG1350809
Bromodichloromethane	U		0.000919	0.00292	1	09/24/2019 06:32	WG1350809
Bromochloromethane	U		0.00132	0.00583	1	09/24/2019 06:32	WG1350809
Bromoform	U		0.00697	0.0292	1	09/24/2019 06:32	WG1350809
Bromomethane	U		0.00431	0.0146	1	09/24/2019 06:32	WG1350809
n-Butylbenzene	U		0.00448	0.0146	1	09/24/2019 06:32	WG1350809
sec-Butylbenzene	U		0.00295	0.0146	1	09/24/2019 06:32	WG1350809
tert-Butylbenzene	U		0.00181	0.00583	1	09/24/2019 06:32	WG1350809
Carbon disulfide	U	UJ J0	0.00473	0.0146	1	09/24/2019 06:32	WG1350809
Carbon tetrachloride	U		0.00126	0.00583	1	09/24/2019 06:32	WG1350809
Chlorobenzene	U		0.000668	0.00292	1	09/24/2019 06:32	WG1350809
Chlorodibromomethane	U		0.000525	0.00292	1	09/24/2019 06:32	WG1350809
Chloroethane	U		0.00126	0.00583	1	09/24/2019 06:32	WG1350809
Chloroform	U		0.000484	0.00292	1	09/24/2019 06:32	WG1350809
Chloromethane	U		0.00162	0.0146	1	09/24/2019 06:32	WG1350809
2-Chlorotoluene	U		0.00107	0.00292	1	09/24/2019 06:32	WG1350809
4-Chlorotoluene	U		0.00132	0.00583	1	09/24/2019 06:32	WG1350809
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00595	0.0292	1	09/24/2019 06:32	WG1350809
1,2-Dibromoethane	U		0.000612	0.00292	1	09/24/2019 06:32	WG1350809
Dibromomethane	U		0.00117	0.00583	1	09/24/2019 06:32	WG1350809
1,2-Dichlorobenzene	U		0.00169	0.00583	1	09/24/2019 06:32	WG1350809
1,3-Dichlorobenzene	U		0.00198	0.00583	1	09/24/2019 06:32	WG1350809
1,4-Dichlorobenzene	U		0.00230	0.00583	1	09/24/2019 06:32	WG1350809
Dichlorodifluoromethane	U		0.000954	0.00292	1	09/24/2019 06:32	WG1350809
1,1-Dichloroethane	U		0.000670	0.00292	1	09/24/2019 06:32	WG1350809
1,2-Dichloroethane	U		0.000554	0.00292	1	09/24/2019 06:32	WG1350809
1,1-Dichloroethene	U		0.000583	0.00292	1	09/24/2019 06:32	WG1350809
cis-1,2-Dichloroethene	0.00706		0.000805	0.00292	1	09/24/2019 06:32	WG1350809
trans-1,2-Dichloroethene	U		0.00167	0.00583	1	09/24/2019 06:32	WG1350809
1,2-Dichloropropane	U		0.00148	0.00583	1	09/24/2019 06:32	WG1350809
1,1-Dichloropropene	U		0.000816	0.00292	1	09/24/2019 06:32	WG1350809
1,3-Dichloropropane	U		0.00204	0.00583	1	09/24/2019 06:32	WG1350809
cis-1,3-Dichloropropene	U		0.000791	0.00292	1	09/24/2019 06:32	WG1350809
trans-1,3-Dichloropropene	U		0.00178	0.00583	1	09/24/2019 06:32	WG1350809
trans-1,4-Dichloro-2-butene	U		0.00163	0.00583	1	09/24/2019 06:32	WG1350809
2,2-Dichloropropane	U		0.000925	0.00292	1	09/24/2019 06:32	WG1350809
Di-isopropyl ether	U		0.000408	0.00117	1	09/24/2019 06:32	WG1350809
Ethylbenzene	U		0.000618	0.00292	1	09/24/2019 06:32	WG1350809
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	09/24/2019 06:32	WG1350809
2-Hexanone	U		0.0117	0.0292	1	09/24/2019 06:32	WG1350809
n-Hexane	0.00536	J J J0	0.00124	0.00583	1	09/24/2019 06:32	WG1350809
Iodomethane	U		0.00705	0.0146	1	09/24/2019 06:32	WG1350809
Isopropylbenzene	U		0.00101	0.00292	1	09/24/2019 06:32	WG1350809
p-Isopropyltoluene	U		0.00272	0.00583	1	09/24/2019 06:32	WG1350809
2-Butanone (MEK)	U	UJ J0	0.0146	0.0292	1	09/24/2019 06:32	WG1350809
Methylene Chloride	U		0.00774	0.0292	1	09/24/2019 06:32	WG1350809
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	09/24/2019 06:32	WG1350809

JC 11/11/19

MW-328-65

Collected date/time: 09/16/19 12:15

SAMPLE RESULTS - 12

L1141285

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	09/24/2019 06:32	WG1350809
Naphthalene	U		0.00364	0.0146	1	09/24/2019 06:32	WG1350809
n-Propylbenzene	U		0.00138	0.00583	1	09/24/2019 06:32	WG1350809
Styrene	U		0.00318	0.0146	1	09/24/2019 06:32	WG1350809
1,1,1,2-Tetrachloroethane	U		0.000583	0.00292	1	09/24/2019 06:32	WG1350809
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000455	0.00292	1	09/24/2019 06:32	WG1350809
1,1,2-Trichlorotrifluoroethane	U		0.000787	0.00292	1	09/24/2019 06:32	WG1350809
Tetrachloroethene	U		0.000816	0.00292	1	09/24/2019 06:32	WG1350809
Toluene	0.00736		0.00146	0.00583	1	09/24/2019 06:32	WG1350809
1,2,3-Trichlorobenzene	U		0.000729	0.00292	1	09/24/2019 06:32	WG1350809
1,2,4-Trichlorobenzene	U		0.00562	0.0146	1	09/24/2019 06:32	WG1350809
1,1,1-Trichloroethane	U		0.000321	0.00292	1	09/24/2019 06:32	WG1350809
1,1,2-Trichloroethane	U		0.00103	0.00292	1	09/24/2019 06:32	WG1350809
Trichloroethene	U		0.000466	0.00117	1	09/24/2019 06:32	WG1350809
Trichlorofluoromethane	U		0.000583	0.00292	1	09/24/2019 06:32	WG1350809
1,2,3-Trichloropropane	U		0.00595	0.0146	1	09/24/2019 06:32	WG1350809
1,2,4-Trimethylbenzene	U		0.00135	0.00583	1	09/24/2019 06:32	WG1350809
1,2,3-Trimethylbenzene	U		0.00134	0.00583	1	09/24/2019 06:32	WG1350809
1,3,5-Trimethylbenzene	U		0.00126	0.00583	1	09/24/2019 06:32	WG1350809
Vinyl acetate	U	UJ J0	0.00410	0.0146	1	09/24/2019 06:32	WG1350809
Vinyl chloride	U		0.000796	0.00292	1	09/24/2019 06:32	WG1350809
Xylenes, Total	U		0.00557	0.00758	1	09/24/2019 06:32	WG1350809
(S) Toluene-d8	*112*			*75.0-131*		*09/24/2019 06:32*	WG1350809
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*09/24/2019 06:32*	WG1350809
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*09/24/2019 06:32*	WG1350809

JC 11/11/19

MW-328-70
Collected date/time: 09/16/19 12:20

SAMPLE RESULTS - 13

L1141285

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.0		1	09/25/2019 16:26	WG1351915

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0381	~~B~~	0.0165	0.0301	1	09/24/2019 06:52	WG1350809
Acrylonitrile	U	UJ J0	0.00229	0.0151	1	09/24/2019 06:52	WG1350809
Benzene	0.0250		0.000482	0.00120	1	09/24/2019 06:52	WG1350809
Bromobenzene	U		0.00126	0.0151	1	09/24/2019 06:52	WG1350809
Bromodichloromethane	U		0.000949	0.00301	1	09/24/2019 06:52	WG1350809
Bromochloromethane	U		0.00136	0.00602	1	09/24/2019 06:52	WG1350809
Bromoform	U		0.00720	0.0301	1	09/24/2019 06:52	WG1350809
Bromomethane	U		0.00446	0.0151	1	09/24/2019 06:52	WG1350809
n-Butylbenzene	U		0.00462	0.0151	1	09/24/2019 06:52	WG1350809
sec-Butylbenzene	U		0.00305	0.0151	1	09/24/2019 06:52	WG1350809
tert-Butylbenzene	U		0.00187	0.00602	1	09/24/2019 06:52	WG1350809
Carbon disulfide	U	UJ J0	0.00489	0.0151	1	09/24/2019 06:52	WG1350809
Carbon tetrachloride	U		0.00130	0.00602	1	09/24/2019 06:52	WG1350809
Chlorobenzene	U		0.000690	0.00301	1	09/24/2019 06:52	WG1350809
Chlorodibromomethane	U		0.000542	0.00301	1	09/24/2019 06:52	WG1350809
Chloroethane	U		0.00130	0.00602	1	09/24/2019 06:52	WG1350809
Chloroform	U		0.000500	0.00301	1	09/24/2019 06:52	WG1350809
Chloromethane	U		0.00167	0.0151	1	09/24/2019 06:52	WG1350809
2-Chlorotoluene	U		0.00111	0.00301	1	09/24/2019 06:52	WG1350809
4-Chlorotoluene	U		0.00136	0.00602	1	09/24/2019 06:52	WG1350809
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00614	0.0301	1	09/24/2019 06:52	WG1350809
1,2-Dibromoethane	U		0.000632	0.00301	1	09/24/2019 06:52	WG1350809
Dibromomethane	U		0.00120	0.00602	1	09/24/2019 06:52	WG1350809
1,2-Dichlorobenzene	U		0.00175	0.00602	1	09/24/2019 06:52	WG1350809
1,3-Dichlorobenzene	U		0.00205	0.00602	1	09/24/2019 06:52	WG1350809
1,4-Dichlorobenzene	U		0.00237	0.00602	1	09/24/2019 06:52	WG1350809
Dichlorodifluoromethane	U		0.000985	0.00301	1	09/24/2019 06:52	WG1350809
1,1-Dichloroethane	U		0.000692	0.00301	1	09/24/2019 06:52	WG1350809
1,2-Dichloroethane	U		0.000572	0.00301	1	09/24/2019 06:52	WG1350809
1,1-Dichloroethene	U		0.000602	0.00301	1	09/24/2019 06:52	WG1350809
cis-1,2-Dichloroethene	0.0265		0.000831	0.00301	1	09/24/2019 06:52	WG1350809
trans-1,2-Dichloroethene	U		0.00172	0.00602	1	09/24/2019 06:52	WG1350809
1,2-Dichloropropane	U		0.00153	0.00602	1	09/24/2019 06:52	WG1350809
1,1-Dichloropropene	U		0.000843	0.00301	1	09/24/2019 06:52	WG1350809
1,3-Dichloropropane	U		0.00211	0.00602	1	09/24/2019 06:52	WG1350809
cis-1,3-Dichloropropene	U		0.000816	0.00301	1	09/24/2019 06:52	WG1350809
trans-1,3-Dichloropropene	U		0.00184	0.00602	1	09/24/2019 06:52	WG1350809
trans-1,4-Dichloro-2-butene	U		0.00169	0.00602	1	09/24/2019 06:52	WG1350809
2,2-Dichloropropane	U		0.000955	0.00301	1	09/24/2019 06:52	WG1350809
Di-isopropyl ether	U		0.000421	0.00120	1	09/24/2019 06:52	WG1350809
Ethylbenzene	U		0.000638	0.00301	1	09/24/2019 06:52	WG1350809
Hexachloro-1,3-butadiene	U		0.0153	0.0301	1	09/24/2019 06:52	WG1350809
2-Hexanone	U		0.0120	0.0301	1	09/24/2019 06:52	WG1350809
n-Hexane	U	UJ J0	0.00128	0.00602	1	09/24/2019 06:52	WG1350809
Iodomethane	U		0.00728	0.0151	1	09/24/2019 06:52	WG1350809
Isopropylbenzene	U		0.00104	0.00301	1	09/24/2019 06:52	WG1350809
p-Isopropyltoluene	U		0.00281	0.00602	1	09/24/2019 06:52	WG1350809
2-Butanone (MEK)	U	UJ J0	0.0151	0.0301	1	09/24/2019 06:52	WG1350809
Methylene Chloride	U		0.00800	0.0301	1	09/24/2019 06:52	WG1350809
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0301	1	09/24/2019 06:52	WG1350809

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000355	0.00120	1	09/24/2019 06:52	WG1350809
Naphthalene	U		0.00376	0.0151	1	09/24/2019 06:52	WG1350809
n-Propylbenzene	U		0.00142	0.00602	1	09/24/2019 06:52	WG1350809
Styrene	U		0.00329	0.0151	1	09/24/2019 06:52	WG1350809
1,1,1,2-Tetrachloroethane	U		0.000602	0.00301	1	09/24/2019 06:52	WG1350809
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000470	0.00301	1	09/24/2019 06:52	WG1350809
1,1,2-Trichlorotrifluoroethane	U		0.000813	0.00301	1	09/24/2019 06:52	WG1350809
Tetrachloroethene	U		0.000843	0.00301	1	09/24/2019 06:52	WG1350809
Toluene	0.00601	J J	0.00151	0.00602	1	09/24/2019 06:52	WG1350809
1,2,3-Trichlorobenzene	U		0.000753	0.00301	1	09/24/2019 06:52	WG1350809
1,2,4-Trichlorobenzene	U		0.00580	0.0151	1	09/24/2019 06:52	WG1350809
1,1,1-Trichloroethane	U		0.000331	0.00301	1	09/24/2019 06:52	WG1350809
1,1,2-Trichloroethane	U		0.00106	0.00301	1	09/24/2019 06:52	WG1350809
Trichloroethene	U		0.000482	0.00120	1	09/24/2019 06:52	WG1350809
Trichlorofluoromethane	U		0.000602	0.00301	1	09/24/2019 06:52	WG1350809
1,2,3-Trichloropropane	U		0.00614	0.0151	1	09/24/2019 06:52	WG1350809
1,2,4-Trimethylbenzene	U		0.00140	0.00602	1	09/24/2019 06:52	WG1350809
1,2,3-Trimethylbenzene	U		0.00138	0.00602	1	09/24/2019 06:52	WG1350809
1,3,5-Trimethylbenzene	U		0.00130	0.00602	1	09/24/2019 06:52	WG1350809
Vinyl acetate	U	UJ J0	0.00424	0.0151	1	09/24/2019 06:52	WG1350809
Vinyl chloride	U		0.000822	0.00301	1	09/24/2019 06:52	WG1350809
Xylenes, Total	U		0.00576	0.00783	1	09/24/2019 06:52	WG1350809
(S) Toluene-d8	*110*			*75.0-131*		*09/24/2019 06:52*	WG1350809
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*		*09/24/2019 06:52*	WG1350809
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/24/2019 06:52*	WG1350809

JC 11/11/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	09/25/2019 16:26	WG1351915

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0426	~~B~~	0.0160	0.0292	1	09/24/2019 07:13	WG1350809
Acrylonitrile	U	UJ J0	0.00222	0.0146	1	09/24/2019 07:13	WG1350809
Benzene	0.0475		0.000467	0.00117	1	09/24/2019 07:13	WG1350809
Bromobenzene	U		0.00122	0.0146	1	09/24/2019 07:13	WG1350809
Bromodichloromethane	U		0.000919	0.00292	1	09/24/2019 07:13	WG1350809
Bromochloromethane	U		0.00132	0.00583	1	09/24/2019 07:13	WG1350809
Bromoform	U		0.00697	0.0292	1	09/24/2019 07:13	WG1350809
Bromomethane	U		0.00432	0.0146	1	09/24/2019 07:13	WG1350809
n-Butylbenzene	U		0.00448	0.0146	1	09/24/2019 07:13	WG1350809
sec-Butylbenzene	U		0.00295	0.0146	1	09/24/2019 07:13	WG1350809
tert-Butylbenzene	U		0.00181	0.00583	1	09/24/2019 07:13	WG1350809
Carbon disulfide	U	UJ J0	0.00474	0.0146	1	09/24/2019 07:13	WG1350809
Carbon tetrachloride	U		0.00126	0.00583	1	09/24/2019 07:13	WG1350809
Chlorobenzene	U		0.000668	0.00292	1	09/24/2019 07:13	WG1350809
Chlorodibromomethane	U		0.000525	0.00292	1	09/24/2019 07:13	WG1350809
Chloroethane	U		0.00126	0.00583	1	09/24/2019 07:13	WG1350809
Chloroform	U		0.000484	0.00292	1	09/24/2019 07:13	WG1350809
Chloromethane	U		0.00162	0.0146	1	09/24/2019 07:13	WG1350809
2-Chlorotoluene	U		0.00107	0.00292	1	09/24/2019 07:13	WG1350809
4-Chlorotoluene	U		0.00132	0.00583	1	09/24/2019 07:13	WG1350809
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00595	0.0292	1	09/24/2019 07:13	WG1350809
1,2-Dibromoethane	U		0.000612	0.00292	1	09/24/2019 07:13	WG1350809
Dibromomethane	U		0.00117	0.00583	1	09/24/2019 07:13	WG1350809
1,2-Dichlorobenzene	U		0.00169	0.00583	1	09/24/2019 07:13	WG1350809
1,3-Dichlorobenzene	U		0.00198	0.00583	1	09/24/2019 07:13	WG1350809
1,4-Dichlorobenzene	U		0.00230	0.00583	1	09/24/2019 07:13	WG1350809
Dichlorodifluoromethane	U		0.000954	0.00292	1	09/24/2019 07:13	WG1350809
1,1-Dichloroethane	U		0.000671	0.00292	1	09/24/2019 07:13	WG1350809
1,2-Dichloroethane	U		0.000554	0.00292	1	09/24/2019 07:13	WG1350809
1,1-Dichloroethene	U		0.000583	0.00292	1	09/24/2019 07:13	WG1350809
cis-1,2-Dichloroethene	0.0192		0.000805	0.00292	1	09/24/2019 07:13	WG1350809
trans-1,2-Dichloroethene	U		0.00167	0.00583	1	09/24/2019 07:13	WG1350809
1,2-Dichloropropane	U		0.00148	0.00583	1	09/24/2019 07:13	WG1350809
1,1-Dichloropropene	U		0.000816	0.00292	1	09/24/2019 07:13	WG1350809
1,3-Dichloropropane	U		0.00204	0.00583	1	09/24/2019 07:13	WG1350809
cis-1,3-Dichloropropene	U		0.000791	0.00292	1	09/24/2019 07:13	WG1350809
trans-1,3-Dichloropropene	U		0.00178	0.00583	1	09/24/2019 07:13	WG1350809
trans-1,4-Dichloro-2-butene	U		0.00163	0.00583	1	09/24/2019 07:13	WG1350809
2,2-Dichloropropane	U		0.000925	0.00292	1	09/24/2019 07:13	WG1350809
Di-isopropyl ether	U		0.000408	0.00117	1	09/24/2019 07:13	WG1350809
Ethylbenzene	U		0.000618	0.00292	1	09/24/2019 07:13	WG1350809
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	09/24/2019 07:13	WG1350809
2-Hexanone	U		0.0117	0.0292	1	09/24/2019 07:13	WG1350809
n-Hexane	0.00357	J J J0	0.00124	0.00583	1	09/24/2019 07:13	WG1350809
Iodomethane	U		0.00706	0.0146	1	09/24/2019 07:13	WG1350809
Isopropylbenzene	U		0.00101	0.00292	1	09/24/2019 07:13	WG1350809
p-Isopropyltoluene	U		0.00272	0.00583	1	09/24/2019 07:13	WG1350809
2-Butanone (MEK)	U	UJ J0	0.0146	0.0292	1	09/24/2019 07:13	WG1350809
Methylene Chloride	U		0.00774	0.0292	1	09/24/2019 07:13	WG1350809
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	09/24/2019 07:13	WG1350809

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	09/24/2019 07:13	WG1350809
Naphthalene	U		0.00364	0.0146	1	09/24/2019 07:13	WG1350809
n-Propylbenzene	U		0.00138	0.00583	1	09/24/2019 07:13	WG1350809
Styrene	U		0.00318	0.0146	1	09/24/2019 07:13	WG1350809
1,1,1,2-Tetrachloroethane	U		0.000583	0.00292	1	09/24/2019 07:13	WG1350809
1,1,2,2-Tetrachloroethane	U UJ	J0	0.000455	0.00292	1	09/24/2019 07:13	WG1350809
1,1,2-Trichlorotrifluoroethane	U		0.000787	0.00292	1	09/24/2019 07:13	WG1350809
Tetrachloroethene	U		0.000816	0.00292	1	09/24/2019 07:13	WG1350809
Toluene	0.00701		0.00146	0.00583	1	09/24/2019 07:13	WG1350809
1,2,3-Trichlorobenzene	U		0.000729	0.00292	1	09/24/2019 07:13	WG1350809
1,2,4-Trichlorobenzene	U		0.00562	0.0146	1	09/24/2019 07:13	WG1350809
1,1,1-Trichloroethane	U		0.000321	0.00292	1	09/24/2019 07:13	WG1350809
1,1,2-Trichloroethane	U		0.00103	0.00292	1	09/24/2019 07:13	WG1350809
Trichloroethene	U		0.000467	0.00117	1	09/24/2019 07:13	WG1350809
Trichlorofluoromethane	U		0.000583	0.00292	1	09/24/2019 07:13	WG1350809
1,2,3-Trichloropropane	U		0.00595	0.0146	1	09/24/2019 07:13	WG1350809
1,2,4-Trimethylbenzene	U		0.00135	0.00583	1	09/24/2019 07:13	WG1350809
1,2,3-Trimethylbenzene	U		0.00134	0.00583	1	09/24/2019 07:13	WG1350809
1,3,5-Trimethylbenzene	U		0.00126	0.00583	1	09/24/2019 07:13	WG1350809
Vinyl acetate	U UJ	J0	0.00411	0.0146	1	09/24/2019 07:13	WG1350809
Vinyl chloride	U		0.000797	0.00292	1	09/24/2019 07:13	WG1350809
Xylenes, Total	U		0.00558	0.00758	1	09/24/2019 07:13	WG1350809
(S) Toluene-d8	*110*			*75.0-131*		*09/24/2019 07:13*	WG1350809
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*09/24/2019 07:13*	WG1350809
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/24/2019 07:13*	WG1350809

JC 11/11/19

MW-328-80

Collected date/time: 09/16/19 12:30

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.8		1	09/25/2019 16:26	WG1351915

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0557		0.0181	0.0330	1	09/24/2019 13:58	WG1350958
Acrylonitrile	U	UJ J0	0.00251	0.0165	1	09/24/2019 13:58	WG1350958
Benzene	0.0407		0.000528	0.00132	1	09/24/2019 13:58	WG1350958
Bromobenzene	U		0.00139	0.0165	1	09/24/2019 13:58	WG1350958
Bromodichloromethane	U		0.00104	0.00330	1	09/24/2019 13:58	WG1350958
Bromochloromethane	U		0.00149	0.00660	1	09/24/2019 13:58	WG1350958
Bromoform	U		0.00789	0.0330	1	09/24/2019 13:58	WG1350958
Bromomethane	U		0.00488	0.0165	1	09/24/2019 13:58	WG1350958
n-Butylbenzene	U		0.00507	0.0165	1	09/24/2019 13:58	WG1350958
sec-Butylbenzene	U		0.00334	0.0165	1	09/24/2019 13:58	WG1350958
tert-Butylbenzene	U		0.00204	0.00660	1	09/24/2019 13:58	WG1350958
Carbon disulfide	U		0.00536	0.0165	1	09/24/2019 13:58	WG1350958
Carbon tetrachloride	U		0.00142	0.00660	1	09/24/2019 13:58	WG1350958
Chlorobenzene	U		0.000756	0.00330	1	09/24/2019 13:58	WG1350958
Chlorodibromomethane	U		0.000594	0.00330	1	09/24/2019 13:58	WG1350958
Chloroethane	U		0.00142	0.00660	1	09/24/2019 13:58	WG1350958
Chloroform	U		0.000547	0.00330	1	09/24/2019 13:58	WG1350958
Chloromethane	U		0.00183	0.0165	1	09/24/2019 13:58	WG1350958
2-Chlorotoluene	U		0.00121	0.00330	1	09/24/2019 13:58	WG1350958
4-Chlorotoluene	U		0.00149	0.00660	1	09/24/2019 13:58	WG1350958
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00673	0.0330	1	09/24/2019 13:58	WG1350958
1,2-Dibromoethane	U		0.000693	0.00330	1	09/24/2019 13:58	WG1350958
Dibromomethane	U		0.00132	0.00660	1	09/24/2019 13:58	WG1350958
1,2-Dichlorobenzene	U		0.00191	0.00660	1	09/24/2019 13:58	WG1350958
1,3-Dichlorobenzene	U		0.00224	0.00660	1	09/24/2019 13:58	WG1350958
1,4-Dichlorobenzene	U		0.00260	0.00660	1	09/24/2019 13:58	WG1350958
Dichlorodifluoromethane	U		0.00108	0.00330	1	09/24/2019 13:58	WG1350958
1,1-Dichloroethane	U		0.000759	0.00330	1	09/24/2019 13:58	WG1350958
1,2-Dichloroethane	U		0.000627	0.00330	1	09/24/2019 13:58	WG1350958
1,1-Dichloroethene	U		0.000660	0.00330	1	09/24/2019 13:58	WG1350958
cis-1,2-Dichloroethene	0.0204		0.000910	0.00330	1	09/24/2019 13:58	WG1350958
trans-1,2-Dichloroethene	U		0.00189	0.00660	1	09/24/2019 13:58	WG1350958
1,2-Dichloropropane	U		0.00168	0.00660	1	09/24/2019 13:58	WG1350958
1,1-Dichloropropene	U		0.000923	0.00330	1	09/24/2019 13:58	WG1350958
1,3-Dichloropropane	U		0.00231	0.00660	1	09/24/2019 13:58	WG1350958
cis-1,3-Dichloropropene	U		0.000894	0.00330	1	09/24/2019 13:58	WG1350958
trans-1,3-Dichloropropene	U		0.00202	0.00660	1	09/24/2019 13:58	WG1350958
trans-1,4-Dichloro-2-butene	U		0.00185	0.00660	1	09/24/2019 13:58	WG1350958
2,2-Dichloropropane	U		0.00105	0.00330	1	09/24/2019 13:58	WG1350958
Di-isopropyl ether	U		0.000462	0.00132	1	09/24/2019 13:58	WG1350958
Ethylbenzene	U		0.000699	0.00330	1	09/24/2019 13:58	WG1350958
Hexachloro-1,3-butadiene	U		0.0168	0.0330	1	09/24/2019 13:58	WG1350958
2-Hexanone	U	UJ J0	0.0132	0.0330	1	09/24/2019 13:58	WG1350958
n-Hexane	U	UJ J0	0.00140	0.00660	1	09/24/2019 13:58	WG1350958
Iodomethane	U		0.00798	0.0165	1	09/24/2019 13:58	WG1350958
Isopropylbenzene	U		0.00114	0.00330	1	09/24/2019 13:58	WG1350958
p-Isopropyltoluene	U		0.00307	0.00660	1	09/24/2019 13:58	WG1350958
2-Butanone (MEK)	U		0.0165	0.0330	1	09/24/2019 13:58	WG1350958
Methylene Chloride	U		0.00876	0.0330	1	09/24/2019 13:58	WG1350958
4-Methyl-2-pentanone (MIBK)	U		0.0132	0.0330	1	09/24/2019 13:58	WG1350958

JC 11/11/19

MW-328-80
Collected date/time: 09/16/19 12:30

SAMPLE RESULTS - 15

L1141285

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000389	0.00132	1	09/24/2019 13:58	WG1350958
Naphthalene	U			0.00412	0.0165	1	09/24/2019 13:58	WG1350958
n-Propylbenzene	U			0.00156	0.00660	1	09/24/2019 13:58	WG1350958
Styrene	U			0.00360	0.0165	1	09/24/2019 13:58	WG1350958
1,1,1,2-Tetrachloroethane	U			0.000660	0.00330	1	09/24/2019 13:58	WG1350958
1,1,2,2-Tetrachloroethane	U	UJ	J0 J4	0.000515	0.00330	1	09/24/2019 13:58	WG1350958
1,1,2-Trichlorotrifluoroethane	U			0.000890	0.00330	1	09/24/2019 13:58	WG1350958
Tetrachloroethene	U			0.000923	0.00330	1	09/24/2019 13:58	WG1350958
Toluene	0.00605	J	J	0.00165	0.00660	1	09/24/2019 13:58	WG1350958
1,2,3-Trichlorobenzene	U			0.000825	0.00330	1	09/24/2019 13:58	WG1350958
1,2,4-Trichlorobenzene	U			0.00636	0.0165	1	09/24/2019 13:58	WG1350958
1,1,1-Trichloroethane	U			0.000363	0.00330	1	09/24/2019 13:58	WG1350958
1,1,2-Trichloroethane	U			0.00116	0.00330	1	09/24/2019 13:58	WG1350958
Trichloroethene	U			0.000528	0.00132	1	09/24/2019 13:58	WG1350958
Trichlorofluoromethane	U			0.000660	0.00330	1	09/24/2019 13:58	WG1350958
1,2,3-Trichloropropane	U			0.00673	0.0165	1	09/24/2019 13:58	WG1350958
1,2,4-Trimethylbenzene	U			0.00153	0.00660	1	09/24/2019 13:58	WG1350958
1,2,3-Trimethylbenzene	U			0.00152	0.00660	1	09/24/2019 13:58	WG1350958
1,3,5-Trimethylbenzene	U			0.00142	0.00660	1	09/24/2019 13:58	WG1350958
Vinyl acetate	U	UJ	J0	0.00464	0.0165	1	09/24/2019 13:58	WG1350958
Vinyl chloride	U			0.000901	0.00330	1	09/24/2019 13:58	WG1350958
Xylenes, Total	U			0.00631	0.00858	1	09/24/2019 13:58	WG1350958
(S) Toluene-d8	*110*				*75.0-131*		*09/24/2019 13:58*	WG1350958
(S) 4-Bromofluorobenzene	*99.5*				*67.0-138*		*09/24/2019 13:58*	WG1350958
(S) 1,2-Dichloroethane-d4	*101*				*70.0-130*		*09/24/2019 13:58*	WG1350958

JC 11/11/19

MW-329-80
Collected date/time: 09/12/19 13:45

SAMPLE RESULTS - 17

L1141285

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.3		1	09/25/2019 16:26	WG1351915

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0719		0.0166	0.0304	1	09/24/2019 14:18	WG1350958
Acrylonitrile	U	UJ J0	0.00231	0.0152	1	09/24/2019 14:18	WG1350958
Benzene	0.0240		0.000486	0.00121	1	09/24/2019 14:18	WG1350958
Bromobenzene	U		0.00128	0.0152	1	09/24/2019 14:18	WG1350958
Bromodichloromethane	U		0.000957	0.00304	1	09/24/2019 14:18	WG1350958
Bromochloromethane	U		0.00137	0.00607	1	09/24/2019 14:18	WG1350958
Bromoform	U		0.00726	0.0304	1	09/24/2019 14:18	WG1350958
Bromomethane	U		0.00449	0.0152	1	09/24/2019 14:18	WG1350958
n-Butylbenzene	U		0.00466	0.0152	1	09/24/2019 14:18	WG1350958
sec-Butylbenzene	U		0.00307	0.0152	1	09/24/2019 14:18	WG1350958
tert-Butylbenzene	U		0.00188	0.00607	1	09/24/2019 14:18	WG1350958
Carbon disulfide	U		0.00493	0.0152	1	09/24/2019 14:18	WG1350958
Carbon tetrachloride	U		0.00131	0.00607	1	09/24/2019 14:18	WG1350958
Chlorobenzene	U		0.000696	0.00304	1	09/24/2019 14:18	WG1350958
Chlorodibromomethane	U		0.000547	0.00304	1	09/24/2019 14:18	WG1350958
Chloroethane	U		0.00131	0.00607	1	09/24/2019 14:18	WG1350958
Chloroform	U		0.000504	0.00304	1	09/24/2019 14:18	WG1350958
Chloromethane	U		0.00169	0.0152	1	09/24/2019 14:18	WG1350958
2-Chlorotoluene	U		0.00112	0.00304	1	09/24/2019 14:18	WG1350958
4-Chlorotoluene	U		0.00137	0.00607	1	09/24/2019 14:18	WG1350958
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00620	0.0304	1	09/24/2019 14:18	WG1350958
1,2-Dibromoethane	U		0.000638	0.00304	1	09/24/2019 14:18	WG1350958
Dibromomethane	U		0.00121	0.00607	1	09/24/2019 14:18	WG1350958
1,2-Dichlorobenzene	U		0.00176	0.00607	1	09/24/2019 14:18	WG1350958
1,3-Dichlorobenzene	U		0.00207	0.00607	1	09/24/2019 14:18	WG1350958
1,4-Dichlorobenzene	U		0.00239	0.00607	1	09/24/2019 14:18	WG1350958
Dichlorodifluoromethane	U		0.000994	0.00304	1	09/24/2019 14:18	WG1350958
1,1-Dichloroethane	U		0.000698	0.00304	1	09/24/2019 14:18	WG1350958
1,2-Dichloroethane	U		0.000577	0.00304	1	09/24/2019 14:18	WG1350958
1,1-Dichloroethene	U		0.000607	0.00304	1	09/24/2019 14:18	WG1350958
cis-1,2-Dichloroethene	0.103		0.000838	0.00304	1	09/24/2019 14:18	WG1350958
trans-1,2-Dichloroethene	U		0.00174	0.00607	1	09/24/2019 14:18	WG1350958
1,2-Dichloropropane	U		0.00154	0.00607	1	09/24/2019 14:18	WG1350958
1,1-Dichloropropene	U		0.000850	0.00304	1	09/24/2019 14:18	WG1350958
1,3-Dichloropropane	U		0.00213	0.00607	1	09/24/2019 14:18	WG1350958
cis-1,3-Dichloropropene	U		0.000824	0.00304	1	09/24/2019 14:18	WG1350958
trans-1,3-Dichloropropene	U		0.00186	0.00607	1	09/24/2019 14:18	WG1350958
trans-1,4-Dichloro-2-butene	U		0.00170	0.00607	1	09/24/2019 14:18	WG1350958
2,2-Dichloropropane	U		0.000963	0.00304	1	09/24/2019 14:18	WG1350958
Di-isopropyl ether	U		0.000425	0.00121	1	09/24/2019 14:18	WG1350958
Ethylbenzene	U		0.000644	0.00304	1	09/24/2019 14:18	WG1350958
Hexachloro-1,3-butadiene	U		0.0154	0.0304	1	09/24/2019 14:18	WG1350958
2-Hexanone	U	UJ J0	0.0121	0.0304	1	09/24/2019 14:18	WG1350958
n-Hexane	U	UJ J0	0.00129	0.00607	1	09/24/2019 14:18	WG1350958
Iodomethane	U		0.00735	0.0152	1	09/24/2019 14:18	WG1350958
Isopropylbenzene	U		0.00105	0.00304	1	09/24/2019 14:18	WG1350958
p-Isopropyltoluene	U		0.00283	0.00607	1	09/24/2019 14:18	WG1350958
2-Butanone (MEK)	0.0156	J J	0.0152	0.0304	1	09/24/2019 14:18	WG1350958
Methylene Chloride	U		0.00807	0.0304	1	09/24/2019 14:18	WG1350958
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0304	1	09/24/2019 14:18	WG1350958

JC 11/11/19

MW-329-80

Collected date/time: 09/12/19 13:45

SAMPLE RESULTS - 17

L1141285

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000358	0.00121	1	09/24/2019 14:18	WG1350958
Naphthalene	U			0.00379	0.0152	1	09/24/2019 14:18	WG1350958
n-Propylbenzene	U			0.00143	0.00607	1	09/24/2019 14:18	WG1350958
Styrene	U			0.00332	0.0152	1	09/24/2019 14:18	WG1350958
1,1,1,2-Tetrachloroethane	U			0.000607	0.00304	1	09/24/2019 14:18	WG1350958
1,1,2,2-Tetrachloroethane	U	UJ	J0 J4	0.000474	0.00304	1	09/24/2019 14:18	WG1350958
1,1,2-Trichlorotrifluoroethane	U			0.000820	0.00304	1	09/24/2019 14:18	WG1350958
Tetrachloroethene	U			0.000850	0.00304	1	09/24/2019 14:18	WG1350958
Toluene	0.00376	J	J	0.00152	0.00607	1	09/24/2019 14:18	WG1350958
1,2,3-Trichlorobenzene	U			0.000759	0.00304	1	09/24/2019 14:18	WG1350958
1,2,4-Trichlorobenzene	U			0.00586	0.0152	1	09/24/2019 14:18	WG1350958
1,1,1-Trichloroethane	U			0.000334	0.00304	1	09/24/2019 14:18	WG1350958
1,1,2-Trichloroethane	U			0.00107	0.00304	1	09/24/2019 14:18	WG1350958
Trichloroethene	U			0.000486	0.00121	1	09/24/2019 14:18	WG1350958
Trichlorofluoromethane	U			0.000607	0.00304	1	09/24/2019 14:18	WG1350958
1,2,3-Trichloropropane	U			0.00620	0.0152	1	09/24/2019 14:18	WG1350958
1,2,4-Trimethylbenzene	U			0.00141	0.00607	1	09/24/2019 14:18	WG1350958
1,2,3-Trimethylbenzene	U			0.00140	0.00607	1	09/24/2019 14:18	WG1350958
1,3,5-Trimethylbenzene	U			0.00131	0.00607	1	09/24/2019 14:18	WG1350958
Vinyl acetate	U	UJ	J0	0.00428	0.0152	1	09/24/2019 14:18	WG1350958
Vinyl chloride	U			0.000830	0.00304	1	09/24/2019 14:18	WG1350958
Xylenes, Total	U			0.00581	0.00790	1	09/24/2019 14:18	WG1350958
(S) Toluene-d8	*109*				*75.0-131*		*09/24/2019 14:18*	WG1350958
(S) 4-Bromofluorobenzene	*99.3*				*67.0-138*		*09/24/2019 14:18*	WG1350958
(S) 1,2-Dichloroethane-d4	*103*				*70.0-130*		*09/24/2019 14:18*	WG1350958

JC 11/11/19

MW-312-6
Collected date/time: 09/16/19 11:10

SAMPLE RESULTS - 01

L1141323

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.2		1	09/25/2019 14:56	WG1351921

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0391		0.0167	0.0304	1	09/24/2019 17:21	WG1350957
Acrylonitrile	U	UJ J0	0.00231	0.0152	1	09/24/2019 17:21	WG1350957
Benzene	0.000742	J J	0.000487	0.00122	1	09/24/2019 17:21	WG1350957
Bromobenzene	U		0.00128	0.0152	1	09/24/2019 17:21	WG1350957
Bromodichloromethane	U		0.000959	0.00304	1	09/24/2019 17:21	WG1350957
Bromochloromethane	U		0.00137	0.00608	1	09/24/2019 17:21	WG1350957
Bromoform	U		0.00728	0.0304	1	09/24/2019 17:21	WG1350957
Bromomethane	U		0.00450	0.0152	1	09/24/2019 17:21	WG1350957
n-Butylbenzene	U		0.00467	0.0152	1	09/24/2019 17:21	WG1350957
sec-Butylbenzene	U		0.00308	0.0152	1	09/24/2019 17:21	WG1350957
tert-Butylbenzene	U		0.00189	0.00608	1	09/24/2019 17:21	WG1350957
Carbon disulfide	U		0.00494	0.0152	1	09/24/2019 17:21	WG1350957
Carbon tetrachloride	U		0.00131	0.00608	1	09/24/2019 17:21	WG1350957
Chlorobenzene	U		0.000697	0.00304	1	09/24/2019 17:21	WG1350957
Chlorodibromomethane	U		0.000547	0.00304	1	09/24/2019 17:21	WG1350957
Chloroethane	U		0.00131	0.00608	1	09/24/2019 17:21	WG1350957
Chloroform	U		0.000505	0.00304	1	09/24/2019 17:21	WG1350957
Chloromethane	U		0.00169	0.0152	1	09/24/2019 17:21	WG1350957
2-Chlorotoluene	U		0.00112	0.00304	1	09/24/2019 17:21	WG1350957
4-Chlorotoluene	U		0.00137	0.00608	1	09/24/2019 17:21	WG1350957
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00620	0.0304	1	09/24/2019 17:21	WG1350957
1,2-Dibromoethane	U		0.000639	0.00304	1	09/24/2019 17:21	WG1350957
Dibromomethane	U		0.00122	0.00608	1	09/24/2019 17:21	WG1350957
1,2-Dichlorobenzene	U		0.00176	0.00608	1	09/24/2019 17:21	WG1350957
1,3-Dichlorobenzene	U		0.00207	0.00608	1	09/24/2019 17:21	WG1350957
1,4-Dichlorobenzene	U		0.00240	0.00608	1	09/24/2019 17:21	WG1350957
Dichlorodifluoromethane	U		0.000995	0.00304	1	09/24/2019 17:21	WG1350957
1,1-Dichloroethane	U		0.000700	0.00304	1	09/24/2019 17:21	WG1350957
1,2-Dichloroethane	U		0.000578	0.00304	1	09/24/2019 17:21	WG1350957
1,1-Dichloroethene	U		0.000608	0.00304	1	09/24/2019 17:21	WG1350957
cis-1,2-Dichloroethene	U		0.000839	0.00304	1	09/24/2019 17:21	WG1350957
trans-1,2-Dichloroethene	U		0.00174	0.00608	1	09/24/2019 17:21	WG1350957
1,2-Dichloropropane	U		0.00155	0.00608	1	09/24/2019 17:21	WG1350957
1,1-Dichloropropene	U		0.000852	0.00304	1	09/24/2019 17:21	WG1350957
1,3-Dichloropropane	U		0.00213	0.00608	1	09/24/2019 17:21	WG1350957
cis-1,3-Dichloropropene	U		0.000825	0.00304	1	09/24/2019 17:21	WG1350957
trans-1,3-Dichloropropene	U		0.00186	0.00608	1	09/24/2019 17:21	WG1350957
trans-1,4-Dichloro-2-butene	U		0.00170	0.00608	1	09/24/2019 17:21	WG1350957
2,2-Dichloropropane	U		0.000965	0.00304	1	09/24/2019 17:21	WG1350957
Di-isopropyl ether	U		0.000426	0.00122	1	09/24/2019 17:21	WG1350957
Ethylbenzene	U		0.000645	0.00304	1	09/24/2019 17:21	WG1350957
Hexachloro-1,3-butadiene	U		0.0155	0.0304	1	09/24/2019 17:21	WG1350957
2-Hexanone	U	UJ J0	0.0122	0.0304	1	09/24/2019 17:21	WG1350957
n-Hexane	U	UJ J0	0.00129	0.00608	1	09/24/2019 17:21	WG1350957
Iodomethane	U		0.00736	0.0152	1	09/24/2019 17:21	WG1350957
Isopropylbenzene	U		0.00105	0.00304	1	09/24/2019 17:21	WG1350957
p-Isopropyltoluene	U		0.00283	0.00608	1	09/24/2019 17:21	WG1350957
2-Butanone (MEK)	U		0.0152	0.0304	1	09/24/2019 17:21	WG1350957
Methylene Chloride	U		0.00808	0.0304	1	09/24/2019 17:21	WG1350957
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0304	1	09/24/2019 17:21	WG1350957

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000359	0.00122	1	09/24/2019 17:21	WG1350957
Naphthalene	U			0.00380	0.0152	1	09/24/2019 17:21	WG1350957
n-Propylbenzene	U			0.00144	0.00608	1	09/24/2019 17:21	WG1350957
Styrene	U			0.00332	0.0152	1	09/24/2019 17:21	WG1350957
1,1,1,2-Tetrachloroethane	U			0.000608	0.00304	1	09/24/2019 17:21	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ	J0 J4	0.000474	0.00304	1	09/24/2019 17:21	WG1350957
1,1,2-Trichlorotrifluoroethane	U			0.000821	0.00304	1	09/24/2019 17:21	WG1350957
Tetrachloroethene	U			0.000852	0.00304	1	09/24/2019 17:21	WG1350957
Toluene	0.00946			0.00152	0.00608	1	09/24/2019 17:21	WG1350957
1,2,3-Trichlorobenzene	U			0.000760	0.00304	1	09/24/2019 17:21	WG1350957
1,2,4-Trichlorobenzene	U			0.00586	0.0152	1	09/24/2019 17:21	WG1350957
1,1,1-Trichloroethane	U			0.000335	0.00304	1	09/24/2019 17:21	WG1350957
1,1,2-Trichloroethane	U			0.00107	0.00304	1	09/24/2019 17:21	WG1350957
Trichloroethene	U			0.000487	0.00122	1	09/24/2019 17:21	WG1350957
Trichlorofluoromethane	U			0.000608	0.00304	1	09/24/2019 17:21	WG1350957
1,2,3-Trichloropropane	U			0.00620	0.0152	1	09/24/2019 17:21	WG1350957
1,2,4-Trimethylbenzene	0.00182	J	J	0.00141	0.00608	1	09/24/2019 17:21	WG1350957
1,2,3-Trimethylbenzene	0.00176	J	J	0.00140	0.00608	1	09/24/2019 17:21	WG1350957
1,3,5-Trimethylbenzene	U			0.00131	0.00608	1	09/24/2019 17:21	WG1350957
Vinyl acetate	U	UJ	J0	0.00428	0.0152	1	09/24/2019 17:21	WG1350957
Vinyl chloride	U			0.000831	0.00304	1	09/24/2019 17:21	WG1350957
Xylenes, Total	U			0.00582	0.00791	1	09/24/2019 17:21	WG1350957
(S) Toluene-d8	*113*				*75.0-131*		*09/24/2019 17:21*	WG1350957
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/24/2019 17:21*	WG1350957
(S) 1,2-Dichloroethane-d4	*101*				*70.0-130*		*09/24/2019 17:21*	WG1350957

JC 11/11/19

MW-312-10
Collected date/time: 09/16/19 11:15

SAMPLE RESULTS - 02

L1141323

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	56.2		1	09/25/2019 14:56	WG1351921

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.187		0.0278	0.0507	1.14	09/24/2019 17:42	WG1350957
Acrylonitrile	U	UJ J0	0.00386	0.0254	1.14	09/24/2019 17:42	WG1350957
Benzene	0.00135	J J	0.000812	0.00203	1.14	09/24/2019 17:42	WG1350957
Bromobenzene	U		0.00214	0.0254	1.14	09/24/2019 17:42	WG1350957
Bromodichloromethane	U		0.00160	0.00507	1.14	09/24/2019 17:42	WG1350957
Bromochloromethane	U		0.00230	0.0101	1.14	09/24/2019 17:42	WG1350957
Bromoform	U		0.0121	0.0507	1.14	09/24/2019 17:42	WG1350957
Bromomethane	U		0.00751	0.0254	1.14	09/24/2019 17:42	WG1350957
n-Butylbenzene	U		0.00780	0.0254	1.14	09/24/2019 17:42	WG1350957
sec-Butylbenzene	U		0.00513	0.0254	1.14	09/24/2019 17:42	WG1350957
tert-Butylbenzene	U		0.00315	0.0101	1.14	09/24/2019 17:42	WG1350957
Carbon disulfide	U		0.00824	0.0254	1.14	09/24/2019 17:42	WG1350957
Carbon tetrachloride	U		0.00219	0.0101	1.14	09/24/2019 17:42	WG1350957
Chlorobenzene	U		0.00116	0.00507	1.14	09/24/2019 17:42	WG1350957
Chlorodibromomethane	U		0.000913	0.00507	1.14	09/24/2019 17:42	WG1350957
Chloroethane	U		0.00219	0.0101	1.14	09/24/2019 17:42	WG1350957
Chloroform	U		0.000842	0.00507	1.14	09/24/2019 17:42	WG1350957
Chloromethane	U		0.00281	0.0254	1.14	09/24/2019 17:42	WG1350957
2-Chlorotoluene	U		0.00187	0.00507	1.14	09/24/2019 17:42	WG1350957
4-Chlorotoluene	U		0.00230	0.0101	1.14	09/24/2019 17:42	WG1350957
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.0103	0.0507	1.14	09/24/2019 17:42	WG1350957
1,2-Dibromoethane	U		0.00106	0.00507	1.14	09/24/2019 17:42	WG1350957
Dibromomethane	U		0.00203	0.0101	1.14	09/24/2019 17:42	WG1350957
1,2-Dichlorobenzene	U		0.00294	0.0101	1.14	09/24/2019 17:42	WG1350957
1,3-Dichlorobenzene	U		0.00345	0.0101	1.14	09/24/2019 17:42	WG1350957
1,4-Dichlorobenzene	U		0.00399	0.0101	1.14	09/24/2019 17:42	WG1350957
Dichlorodifluoromethane	U		0.00166	0.00507	1.14	09/24/2019 17:42	WG1350957
1,1-Dichloroethane	U		0.00117	0.00507	1.14	09/24/2019 17:42	WG1350957
1,2-Dichloroethane	U		0.000965	0.00507	1.14	09/24/2019 17:42	WG1350957
1,1-Dichloroethene	U		0.00101	0.00507	1.14	09/24/2019 17:42	WG1350957
cis-1,2-Dichloroethene	U		0.00140	0.00507	1.14	09/24/2019 17:42	WG1350957
trans-1,2-Dichloroethene	U		0.00290	0.0101	1.14	09/24/2019 17:42	WG1350957
1,2-Dichloropropane	U		0.00258	0.0101	1.14	09/24/2019 17:42	WG1350957
1,1-Dichloropropene	U		0.00142	0.00507	1.14	09/24/2019 17:42	WG1350957
1,3-Dichloropropane	U		0.00356	0.0101	1.14	09/24/2019 17:42	WG1350957
cis-1,3-Dichloropropene	U		0.00138	0.00507	1.14	09/24/2019 17:42	WG1350957
trans-1,3-Dichloropropene	U		0.00310	0.0101	1.14	09/24/2019 17:42	WG1350957
trans-1,4-Dichloro-2-butene	U		0.00285	0.0101	1.14	09/24/2019 17:42	WG1350957
2,2-Dichloropropane	U		0.00161	0.00507	1.14	09/24/2019 17:42	WG1350957
Di-isopropyl ether	U		0.000710	0.00203	1.14	09/24/2019 17:42	WG1350957
Ethylbenzene	0.00123	J J	0.00108	0.00507	1.14	09/24/2019 17:42	WG1350957
Hexachloro-1,3-butadiene	U		0.0258	0.0507	1.14	09/24/2019 17:42	WG1350957
2-Hexanone	U	UJ J0	0.0203	0.0507	1.14	09/24/2019 17:42	WG1350957
n-Hexane	U	UJ J0	0.00215	0.0101	1.14	09/24/2019 17:42	WG1350957
Iodomethane	U		0.0123	0.0254	1.14	09/24/2019 17:42	WG1350957
Isopropylbenzene	U		0.00175	0.00507	1.14	09/24/2019 17:42	WG1350957
p-Isopropyltoluene	U		0.00474	0.0101	1.14	09/24/2019 17:42	WG1350957
2-Butanone (MEK)	0.0306	J J	0.0253	0.0507	1.14	09/24/2019 17:42	WG1350957
Methylene Chloride	U		0.0135	0.0507	1.14	09/24/2019 17:42	WG1350957
4-Methyl-2-pentanone (MIBK)	U		0.0203	0.0507	1.14	09/24/2019 17:42	WG1350957

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000598	0.00203	1.14	09/24/2019 17:42	WG1350957
Naphthalene	U		0.00634	0.0254	1.14	09/24/2019 17:42	WG1350957
n-Propylbenzene	U		0.00239	0.0101	1.14	09/24/2019 17:42	WG1350957
Styrene	U		0.00554	0.0254	1.14	09/24/2019 17:42	WG1350957
1,1,1,2-Tetrachloroethane	U		0.00101	0.00507	1.14	09/24/2019 17:42	WG1350957
1,1,2,2-Tetrachloroethane	U UJ	J0 J4	0.000792	0.00507	1.14	09/24/2019 17:42	WG1350957
1,1,2-Trichlorotrifluoroethane	U		0.00137	0.00507	1.14	09/24/2019 17:42	WG1350957
Tetrachloroethene	U		0.00142	0.00507	1.14	09/24/2019 17:42	WG1350957
Toluene	0.0225		0.00253	0.0101	1.14	09/24/2019 17:42	WG1350957
1,2,3-Trichlorobenzene	U		0.00127	0.00507	1.14	09/24/2019 17:42	WG1350957
1,2,4-Trichlorobenzene	U		0.00977	0.0254	1.14	09/24/2019 17:42	WG1350957
1,1,1-Trichloroethane	U		0.000559	0.00507	1.14	09/24/2019 17:42	WG1350957
1,1,2-Trichloroethane	U		0.00180	0.00507	1.14	09/24/2019 17:42	WG1350957
Trichloroethene	U		0.000812	0.00203	1.14	09/24/2019 17:42	WG1350957
Trichlorofluoromethane	U		0.00101	0.00507	1.14	09/24/2019 17:42	WG1350957
1,2,3-Trichloropropane	U		0.0103	0.0254	1.14	09/24/2019 17:42	WG1350957
1,2,4-Trimethylbenzene	U		0.00235	0.0101	1.14	09/24/2019 17:42	WG1350957
1,2,3-Trimethylbenzene	U		0.00233	0.0101	1.14	09/24/2019 17:42	WG1350957
1,3,5-Trimethylbenzene	U		0.00219	0.0101	1.14	09/24/2019 17:42	WG1350957
Vinyl acetate	U UJ	J0	0.00714	0.0254	1.14	09/24/2019 17:42	WG1350957
Vinyl chloride	U		0.00139	0.00507	1.14	09/24/2019 17:42	WG1350957
Xylenes, Total	U		0.00970	0.0132	1.14	09/24/2019 17:42	WG1350957
(S) Toluene-d8	*113*			*75.0-131*		*09/24/2019 17:42*	WG1350957
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/24/2019 17:42*	WG1350957
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/24/2019 17:42*	WG1350957

JC 11/11/19

MW-312-15
Collected date/time: 09/16/19 11:30

SAMPLE RESULTS - 03

L1141323

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.2		1	09/25/2019 14:56	WG1351921

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0511		0.0189	0.0346	1.04	09/24/2019 18:02	WG1350957
Acrylonitrile	U UJ	J0	0.00263	0.0173	1.04	09/24/2019 18:02	WG1350957
Benzene	0.00168		0.000553	0.00138	1.04	09/24/2019 18:02	WG1350957
Bromobenzene	U		0.00145	0.0173	1.04	09/24/2019 18:02	WG1350957
Bromodichloromethane	U		0.00109	0.00346	1.04	09/24/2019 18:02	WG1350957
Bromochloromethane	U		0.00157	0.00691	1.04	09/24/2019 18:02	WG1350957
Bromoform	U		0.00827	0.0346	1.04	09/24/2019 18:02	WG1350957
Bromomethane	U		0.00512	0.0173	1.04	09/24/2019 18:02	WG1350957
n-Butylbenzene	0.0240		0.00530	0.0173	1.04	09/24/2019 18:02	WG1350957
sec-Butylbenzene	0.00548 J	J	0.00350	0.0173	1.04	09/24/2019 18:02	WG1350957
tert-Butylbenzene	U		0.00214	0.00691	1.04	09/24/2019 18:02	WG1350957
Carbon disulfide	U		0.00561	0.0173	1.04	09/24/2019 18:02	WG1350957
Carbon tetrachloride	U		0.00149	0.00691	1.04	09/24/2019 18:02	WG1350957
Chlorobenzene	U		0.000792	0.00346	1.04	09/24/2019 18:02	WG1350957
Chlorodibromomethane	U		0.000622	0.00346	1.04	09/24/2019 18:02	WG1350957
Chloroethane	U		0.00149	0.00691	1.04	09/24/2019 18:02	WG1350957
Chloroform	U		0.000574	0.00346	1.04	09/24/2019 18:02	WG1350957
Chloromethane	U		0.00191	0.0173	1.04	09/24/2019 18:02	WG1350957
2-Chlorotoluene	U		0.00127	0.00346	1.04	09/24/2019 18:02	WG1350957
4-Chlorotoluene	U		0.00157	0.00691	1.04	09/24/2019 18:02	WG1350957
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00705	0.0346	1.04	09/24/2019 18:02	WG1350957
1,2-Dibromoethane	U		0.000726	0.00346	1.04	09/24/2019 18:02	WG1350957
Dibromomethane	U		0.00138	0.00691	1.04	09/24/2019 18:02	WG1350957
1,2-Dichlorobenzene	U		0.00201	0.00691	1.04	09/24/2019 18:02	WG1350957
1,3-Dichlorobenzene	U		0.00235	0.00691	1.04	09/24/2019 18:02	WG1350957
1,4-Dichlorobenzene	U		0.00273	0.00691	1.04	09/24/2019 18:02	WG1350957
Dichlorodifluoromethane	U		0.00113	0.00346	1.04	09/24/2019 18:02	WG1350957
1,1-Dichloroethane	U		0.000795	0.00346	1.04	09/24/2019 18:02	WG1350957
1,2-Dichloroethane	U		0.000657	0.00346	1.04	09/24/2019 18:02	WG1350957
1,1-Dichloroethene	U		0.000691	0.00346	1.04	09/24/2019 18:02	WG1350957
cis-1,2-Dichloroethene	0.00114 J	J	0.000954	0.00346	1.04	09/24/2019 18:02	WG1350957
trans-1,2-Dichloroethene	U		0.00198	0.00691	1.04	09/24/2019 18:02	WG1350957
1,2-Dichloropropane	U		0.00175	0.00691	1.04	09/24/2019 18:02	WG1350957
1,1-Dichloropropene	U		0.000968	0.00346	1.04	09/24/2019 18:02	WG1350957
1,3-Dichloropropane	U		0.00242	0.00691	1.04	09/24/2019 18:02	WG1350957
cis-1,3-Dichloropropene	U		0.000937	0.00346	1.04	09/24/2019 18:02	WG1350957
trans-1,3-Dichloropropene	U		0.00211	0.00691	1.04	09/24/2019 18:02	WG1350957
trans-1,4-Dichloro-2-butene	U		0.00194	0.00691	1.04	09/24/2019 18:02	WG1350957
2,2-Dichloropropane	U		0.00110	0.00346	1.04	09/24/2019 18:02	WG1350957
Di-isopropyl ether	U		0.000484	0.00138	1.04	09/24/2019 18:02	WG1350957
Ethylbenzene	0.00573		0.000732	0.00346	1.04	09/24/2019 18:02	WG1350957
Hexachloro-1,3-butadiene	U		0.0175	0.0346	1.04	09/24/2019 18:02	WG1350957
2-Hexanone	U UJ	J0	0.0138	0.0346	1.04	09/24/2019 18:02	WG1350957
n-Hexane	U UJ	J0	0.00146	0.00691	1.04	09/24/2019 18:02	WG1350957
Iodomethane	U		0.00836	0.0173	1.04	09/24/2019 18:02	WG1350957
Isopropylbenzene	0.00299 J	J	0.00119	0.00346	1.04	09/24/2019 18:02	WG1350957
p-Isopropyltoluene	0.00449 J	J	0.00322	0.00691	1.04	09/24/2019 18:02	WG1350957
2-Butanone (MEK)	U		0.0173	0.0346	1.04	09/24/2019 18:02	WG1350957
Methylene Chloride	U		0.00917	0.0346	1.04	09/24/2019 18:02	WG1350957
4-Methyl-2-pentanone (MIBK)	U		0.0138	0.0346	1.04	09/24/2019 18:02	WG1350957

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000408	0.00138	1.04	09/24/2019 18:02	WG1350957
Naphthalene	0.00533 J	J	0.00431	0.0173	1.04	09/24/2019 18:02	WG1350957
n-Propylbenzene	0.0288		0.00164	0.00691	1.04	09/24/2019 18:02	WG1350957
Styrene	U		0.00378	0.0173	1.04	09/24/2019 18:02	WG1350957
1,1,1,2-Tetrachloroethane	U		0.000691	0.00346	1.04	09/24/2019 18:02	WG1350957
1,1,2,2-Tetrachloroethane	U UJ	J0 J4	0.000540	0.00346	1.04	09/24/2019 18:02	WG1350957
1,1,2-Trichlorotrifluoroethane	U		0.000933	0.00346	1.04	09/24/2019 18:02	WG1350957
Tetrachloroethene	U		0.000968	0.00346	1.04	09/24/2019 18:02	WG1350957
Toluene	0.0408		0.00173	0.00691	1.04	09/24/2019 18:02	WG1350957
1,2,3-Trichlorobenzene	U		0.000864	0.00346	1.04	09/24/2019 18:02	WG1350957
1,2,4-Trichlorobenzene	0.00710 J	J	0.00666	0.0173	1.04	09/24/2019 18:02	WG1350957
1,1,1-Trichloroethane	U		0.000380	0.00346	1.04	09/24/2019 18:02	WG1350957
1,1,2-Trichloroethane	U		0.00122	0.00346	1.04	09/24/2019 18:02	WG1350957
Trichloroethene	U		0.000553	0.00138	1.04	09/24/2019 18:02	WG1350957
Trichlorofluoromethane	U		0.000691	0.00346	1.04	09/24/2019 18:02	WG1350957
1,2,3-Trichloropropane	U		0.00705	0.0173	1.04	09/24/2019 18:02	WG1350957
1,2,4-Trimethylbenzene	0.00499 J	J	0.00161	0.00691	1.04	09/24/2019 18:02	WG1350957
1,2,3-Trimethylbenzene	0.00854		0.00160	0.00691	1.04	09/24/2019 18:02	WG1350957
1,3,5-Trimethylbenzene	U		0.00149	0.00691	1.04	09/24/2019 18:02	WG1350957
Vinyl acetate	U UJ	J0	0.00487	0.0173	1.04	09/24/2019 18:02	WG1350957
Vinyl chloride	U		0.000944	0.00346	1.04	09/24/2019 18:02	WG1350957
Xylenes, Total	0.0241		0.00661	0.00899	1.04	09/24/2019 18:02	WG1350957
(S) Toluene-d8	*112*			*75.0-131*		*09/24/2019 18:02*	WG1350957
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/24/2019 18:02*	WG1350957
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/24/2019 18:02*	WG1350957

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.4		1	09/25/2019 14:56	WG1351921

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0328		0.0148	0.0270	1	09/24/2019 18:22	WG1350957
Acrylonitrile	U UJ	J0	0.00206	0.0135	1	09/24/2019 18:22	WG1350957
Benzene	U		0.000433	0.00108	1	09/24/2019 18:22	WG1350957
Bromobenzene	U		0.00114	0.0135	1	09/24/2019 18:22	WG1350957
Bromodichloromethane	U		0.000853	0.00270	1	09/24/2019 18:22	WG1350957
Bromochloromethane	U		0.00122	0.00541	1	09/24/2019 18:22	WG1350957
Bromoform	U		0.00647	0.0270	1	09/24/2019 18:22	WG1350957
Bromomethane	U		0.00400	0.0135	1	09/24/2019 18:22	WG1350957
n-Butylbenzene	0.0365 J		0.00415	0.0135	1	09/24/2019 18:22	WG1350957
sec-Butylbenzene	0.0340 J		0.00274	0.0135	1	09/24/2019 18:22	WG1350957
tert-Butylbenzene	U		0.00168	0.00541	1	09/24/2019 18:22	WG1350957
Carbon disulfide	U		0.00439	0.0135	1	09/24/2019 18:22	WG1350957
Carbon tetrachloride	U		0.00117	0.00541	1	09/24/2019 18:22	WG1350957
Chlorobenzene	U		0.000620	0.00270	1	09/24/2019 18:22	WG1350957
Chlorodibromomethane	U		0.000487	0.00270	1	09/24/2019 18:22	WG1350957
Chloroethane	U		0.00117	0.00541	1	09/24/2019 18:22	WG1350957
Chloroform	U		0.000449	0.00270	1	09/24/2019 18:22	WG1350957
Chloromethane	U		0.00150	0.0135	1	09/24/2019 18:22	WG1350957
2-Chlorotoluene	U		0.000995	0.00270	1	09/24/2019 18:22	WG1350957
4-Chlorotoluene	U		0.00122	0.00541	1	09/24/2019 18:22	WG1350957
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00552	0.0270	1	09/24/2019 18:22	WG1350957
1,2-Dibromoethane	U		0.000568	0.00270	1	09/24/2019 18:22	WG1350957
Dibromomethane	U		0.00108	0.00541	1	09/24/2019 18:22	WG1350957
1,2-Dichlorobenzene	U		0.00157	0.00541	1	09/24/2019 18:22	WG1350957
1,3-Dichlorobenzene	U		0.00184	0.00541	1	09/24/2019 18:22	WG1350957
1,4-Dichlorobenzene	U		0.00213	0.00541	1	09/24/2019 18:22	WG1350957
Dichlorodifluoromethane	U		0.000885	0.00270	1	09/24/2019 18:22	WG1350957
1,1-Dichloroethane	U		0.000622	0.00270	1	09/24/2019 18:22	WG1350957
1,2-Dichloroethane	U		0.000514	0.00270	1	09/24/2019 18:22	WG1350957
1,1-Dichloroethene	U		0.000541	0.00270	1	09/24/2019 18:22	WG1350957
cis-1,2-Dichloroethene	U		0.000747	0.00270	1	09/24/2019 18:22	WG1350957
trans-1,2-Dichloroethene	U		0.00155	0.00541	1	09/24/2019 18:22	WG1350957
1,2-Dichloropropane	U		0.00137	0.00541	1	09/24/2019 18:22	WG1350957
1,1-Dichloropropene	U		0.000757	0.00270	1	09/24/2019 18:22	WG1350957
1,3-Dichloropropane	U		0.00189	0.00541	1	09/24/2019 18:22	WG1350957
cis-1,3-Dichloropropene	U		0.000734	0.00270	1	09/24/2019 18:22	WG1350957
trans-1,3-Dichloropropene	U		0.00166	0.00541	1	09/24/2019 18:22	WG1350957
trans-1,4-Dichloro-2-butene	U		0.00151	0.00541	1	09/24/2019 18:22	WG1350957
2,2-Dichloropropane	U		0.000858	0.00270	1	09/24/2019 18:22	WG1350957
Di-isopropyl ether	U		0.000379	0.00108	1	09/24/2019 18:22	WG1350957
Ethylbenzene	U		0.000573	0.00270	1	09/24/2019 18:22	WG1350957
Hexachloro-1,3-butadiene	U		0.0137	0.0270	1	09/24/2019 18:22	WG1350957
2-Hexanone	U UJ	J0	0.0108	0.0270	1	09/24/2019 18:22	WG1350957
n-Hexane	0.00561 J	J0	0.00115	0.00541	1	09/24/2019 18:22	WG1350957
Iodomethane	U		0.00655	0.0135	1	09/24/2019 18:22	WG1350957
Isopropylbenzene	U		0.000934	0.00270	1	09/24/2019 18:22	WG1350957
p-Isopropyltoluene	U		0.00252	0.00541	1	09/24/2019 18:22	WG1350957
2-Butanone (MEK)	U		0.0135	0.0270	1	09/24/2019 18:22	WG1350957
Methylene Chloride	U		0.00718	0.0270	1	09/24/2019 18:22	WG1350957
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0270	1	09/24/2019 18:22	WG1350957

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MW-312-20

Collected date/time: 09/16/19 11:35

SAMPLE RESULTS - 04

L1141323

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000319	0.00108	1	09/24/2019 18:22	WG1350957
Naphthalene	U			0.00338	0.0135	1	09/24/2019 18:22	WG1350957
n-Propylbenzene	U			0.00128	0.00541	1	09/24/2019 18:22	WG1350957
Styrene	U			0.00295	0.0135	1	09/24/2019 18:22	WG1350957
1,1,1,2-Tetrachloroethane	U			0.000541	0.00270	1	09/24/2019 18:22	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ	J0 J4	0.000422	0.00270	1	09/24/2019 18:22	WG1350957
1,1,2-Trichlorotrifluoroethane	U			0.000730	0.00270	1	09/24/2019 18:22	WG1350957
Tetrachloroethene	U			0.000757	0.00270	1	09/24/2019 18:22	WG1350957
Toluene	0.00520	J	J	0.00135	0.00541	1	09/24/2019 18:22	WG1350957
1,2,3-Trichlorobenzene	U			0.000676	0.00270	1	09/24/2019 18:22	WG1350957
1,2,4-Trichlorobenzene	0.0271			0.00522	0.0135	1	09/24/2019 18:22	WG1350957
1,1,1-Trichloroethane	U			0.000298	0.00270	1	09/24/2019 18:22	WG1350957
1,1,2-Trichloroethane	U			0.000955	0.00270	1	09/24/2019 18:22	WG1350957
Trichloroethene	U			0.000433	0.00108	1	09/24/2019 18:22	WG1350957
Trichlorofluoromethane	U			0.000541	0.00270	1	09/24/2019 18:22	WG1350957
1,2,3-Trichloropropane	U			0.00552	0.0135	1	09/24/2019 18:22	WG1350957
1,2,4-Trimethylbenzene	U			0.00126	0.00541	1	09/24/2019 18:22	WG1350957
1,2,3-Trimethylbenzene	0.0176	J		0.00124	0.00541	1	09/24/2019 18:22	WG1350957
1,3,5-Trimethylbenzene	U			0.00117	0.00541	1	09/24/2019 18:22	WG1350957
Vinyl acetate	U	UJ	J0	0.00381	0.0135	1	09/24/2019 18:22	WG1350957
Vinyl chloride	U			0.000739	0.00270	1	09/24/2019 18:22	WG1350957
Xylenes, Total	U			0.00517	0.00703	1	09/24/2019 18:22	WG1350957
(S) Toluene-d8	*112*				*75.0-131*		*09/24/2019 18:22*	WG1350957
(S) 4-Bromofluorobenzene	*105*				*67.0-138*		*09/24/2019 18:22*	WG1350957
(S) 1,2-Dichloroethane-d4	*97.3*				*70.0-130*		*09/24/2019 18:22*	WG1350957

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	09/25/2019 14:56	WG1351921

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0944		0.0153	0.0280	1	09/24/2019 18:42	WG1350957
Acrylonitrile	U	UJ J0	0.00213	0.0140	1	09/24/2019 18:42	WG1350957
Benzene	0.00102	J J	0.000447	0.00112	1	09/24/2019 18:42	WG1350957
Bromobenzene	U		0.00117	0.0140	1	09/24/2019 18:42	WG1350957
Bromodichloromethane	U		0.000881	0.00280	1	09/24/2019 18:42	WG1350957
Bromochloromethane	U		0.00126	0.00559	1	09/24/2019 18:42	WG1350957
Bromoform	U		0.00669	0.0280	1	09/24/2019 18:42	WG1350957
Bromomethane	U		0.00414	0.0140	1	09/24/2019 18:42	WG1350957
n-Butylbenzene	0.0153		0.00430	0.0140	1	09/24/2019 18:42	WG1350957
sec-Butylbenzene	0.0161		0.00283	0.0140	1	09/24/2019 18:42	WG1350957
tert-Butylbenzene	U		0.00173	0.00559	1	09/24/2019 18:42	WG1350957
Carbon disulfide	U		0.00454	0.0140	1	09/24/2019 18:42	WG1350957
Carbon tetrachloride	U		0.00121	0.00559	1	09/24/2019 18:42	WG1350957
Chlorobenzene	U		0.000641	0.00280	1	09/24/2019 18:42	WG1350957
Chlorodibromomethane	U		0.000503	0.00280	1	09/24/2019 18:42	WG1350957
Chloroethane	U		0.00121	0.00559	1	09/24/2019 18:42	WG1350957
Chloroform	U		0.000464	0.00280	1	09/24/2019 18:42	WG1350957
Chloromethane	U		0.00155	0.0140	1	09/24/2019 18:42	WG1350957
2-Chlorotoluene	U		0.00103	0.00280	1	09/24/2019 18:42	WG1350957
4-Chlorotoluene	U		0.00126	0.00559	1	09/24/2019 18:42	WG1350957
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00570	0.0280	1	09/24/2019 18:42	WG1350957
1,2-Dibromoethane	U		0.000587	0.00280	1	09/24/2019 18:42	WG1350957
Dibromomethane	U		0.00112	0.00559	1	09/24/2019 18:42	WG1350957
1,2-Dichlorobenzene	U		0.00162	0.00559	1	09/24/2019 18:42	WG1350957
1,3-Dichlorobenzene	U		0.00190	0.00559	1	09/24/2019 18:42	WG1350957
1,4-Dichlorobenzene	U		0.00220	0.00559	1	09/24/2019 18:42	WG1350957
Dichlorodifluoromethane	U		0.000915	0.00280	1	09/24/2019 18:42	WG1350957
1,1-Dichloroethane	U		0.000643	0.00280	1	09/24/2019 18:42	WG1350957
1,2-Dichloroethane	U		0.000531	0.00280	1	09/24/2019 18:42	WG1350957
1,1-Dichloroethene	U		0.000559	0.00280	1	09/24/2019 18:42	WG1350957
cis-1,2-Dichloroethene	U		0.000772	0.00280	1	09/24/2019 18:42	WG1350957
trans-1,2-Dichloroethene	U		0.00160	0.00559	1	09/24/2019 18:42	WG1350957
1,2-Dichloropropane	U		0.00142	0.00559	1	09/24/2019 18:42	WG1350957
1,1-Dichloropropene	U		0.000783	0.00280	1	09/24/2019 18:42	WG1350957
1,3-Dichloropropane	U		0.00196	0.00559	1	09/24/2019 18:42	WG1350957
cis-1,3-Dichloropropene	U		0.000758	0.00280	1	09/24/2019 18:42	WG1350957
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	09/24/2019 18:42	WG1350957
trans-1,4-Dichloro-2-butene	U		0.00157	0.00559	1	09/24/2019 18:42	WG1350957
2,2-Dichloropropane	U		0.000887	0.00280	1	09/24/2019 18:42	WG1350957
Di-isopropyl ether	U		0.000392	0.00112	1	09/24/2019 18:42	WG1350957
Ethylbenzene	U		0.000593	0.00280	1	09/24/2019 18:42	WG1350957
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	09/24/2019 18:42	WG1350957
2-Hexanone	U	UJ J0	0.0112	0.0280	1	09/24/2019 18:42	WG1350957
n-Hexane	U	UJ J0	0.00119	0.00559	1	09/24/2019 18:42	WG1350957
Iodomethane	U		0.00677	0.0140	1	09/24/2019 18:42	WG1350957
Isopropylbenzene	0.00244	J J	0.000965	0.00280	1	09/24/2019 18:42	WG1350957
p-Isopropyltoluene	U		0.00261	0.00559	1	09/24/2019 18:42	WG1350957
2-Butanone (MEK)	0.0263	J J	0.0140	0.0280	1	09/24/2019 18:42	WG1350957
Methylene Chloride	U		0.00743	0.0280	1	09/24/2019 18:42	WG1350957
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	09/24/2019 18:42	WG1350957

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U			0.000330	0.00112	1	09/24/2019 18:42	WG1350957
Naphthalene	U			0.00349	0.0140	1	09/24/2019 18:42	WG1350957
n-Propylbenzene	U			0.00132	0.00559	1	09/24/2019 18:42	WG1350957
Styrene	U			0.00305	0.0140	1	09/24/2019 18:42	WG1350957
1,1,1,2-Tetrachloroethane	U			0.000559	0.00280	1	09/24/2019 18:42	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ	J0 J4	0.000436	0.00280	1	09/24/2019 18:42	WG1350957
1,1,2-Trichlorotrifluoroethane	U			0.000755	0.00280	1	09/24/2019 18:42	WG1350957
Tetrachloroethene	U			0.000783	0.00280	1	09/24/2019 18:42	WG1350957
Toluene	0.00658			0.00140	0.00559	1	09/24/2019 18:42	WG1350957
1,2,3-Trichlorobenzene	U			0.000699	0.00280	1	09/24/2019 18:42	WG1350957
1,2,4-Trichlorobenzene	0.0169			0.00539	0.0140	1	09/24/2019 18:42	WG1350957
1,1,1-Trichloroethane	U			0.000308	0.00280	1	09/24/2019 18:42	WG1350957
1,1,2-Trichloroethane	U			0.000988	0.00280	1	09/24/2019 18:42	WG1350957
Trichloroethene	U			0.000447	0.00112	1	09/24/2019 18:42	WG1350957
Trichlorofluoromethane	U			0.000559	0.00280	1	09/24/2019 18:42	WG1350957
1,2,3-Trichloropropane	U			0.00570	0.0140	1	09/24/2019 18:42	WG1350957
1,2,4-Trimethylbenzene	0.00219	J	J	0.00130	0.00559	1	09/24/2019 18:42	WG1350957
1,2,3-Trimethylbenzene	0.0132			0.00129	0.00559	1	09/24/2019 18:42	WG1350957
1,3,5-Trimethylbenzene	U			0.00121	0.00559	1	09/24/2019 18:42	WG1350957
Vinyl acetate	U	UJ	J0	0.00394	0.0140	1	09/24/2019 18:42	WG1350957
Vinyl chloride	U			0.000764	0.00280	1	09/24/2019 18:42	WG1350957
Xylenes, Total	0.00660	J	J	0.00535	0.00727	1	09/24/2019 18:42	WG1350957
(S) Toluene-d8	*112*				*75.0-131*		*09/24/2019 18:42*	WG1350957
(S) 4-Bromofluorobenzene	*106*				*67.0-138*		*09/24/2019 18:42*	WG1350957
(S) 1,2-Dichloroethane-d4	*99.5*				*70.0-130*		*09/24/2019 18:42*	WG1350957

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.6		1	09/25/2019 14:56	WG1351921

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0620		0.0158	0.0289	1	09/24/2019 19:03	WG1350957
Acrylonitrile	U UJ	J0	0.00219	0.0144	1	09/24/2019 19:03	WG1350957
Benzene	U		0.000462	0.00115	1	09/24/2019 19:03	WG1350957
Bromobenzene	U		0.00121	0.0144	1	09/24/2019 19:03	WG1350957
Bromodichloromethane	U		0.000910	0.00289	1	09/24/2019 19:03	WG1350957
Bromochloromethane	U		0.00130	0.00577	1	09/24/2019 19:03	WG1350957
Bromoform	U		0.00690	0.0289	1	09/24/2019 19:03	WG1350957
Bromomethane	U		0.00427	0.0144	1	09/24/2019 19:03	WG1350957
n-Butylbenzene	U UJ		0.00443	0.0144	1	09/24/2019 19:03	WG1350957
sec-Butylbenzene	U UJ		0.00292	0.0144	1	09/24/2019 19:03	WG1350957
tert-Butylbenzene	U		0.00179	0.00577	1	09/24/2019 19:03	WG1350957
Carbon disulfide	U		0.00469	0.0144	1	09/24/2019 19:03	WG1350957
Carbon tetrachloride	U		0.00125	0.00577	1	09/24/2019 19:03	WG1350957
Chlorobenzene	U		0.000662	0.00289	1	09/24/2019 19:03	WG1350957
Chlorodibromomethane	U		0.000520	0.00289	1	09/24/2019 19:03	WG1350957
Chloroethane	U		0.00125	0.00577	1	09/24/2019 19:03	WG1350957
Chloroform	U		0.000479	0.00289	1	09/24/2019 19:03	WG1350957
Chloromethane	U		0.00160	0.0144	1	09/24/2019 19:03	WG1350957
2-Chlorotoluene	U		0.00106	0.00289	1	09/24/2019 19:03	WG1350957
4-Chlorotoluene	U		0.00130	0.00577	1	09/24/2019 19:03	WG1350957
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00589	0.0289	1	09/24/2019 19:03	WG1350957
1,2-Dibromoethane	U		0.000606	0.00289	1	09/24/2019 19:03	WG1350957
Dibromomethane	U		0.00115	0.00577	1	09/24/2019 19:03	WG1350957
1,2-Dichlorobenzene	U		0.00167	0.00577	1	09/24/2019 19:03	WG1350957
1,3-Dichlorobenzene	U		0.00196	0.00577	1	09/24/2019 19:03	WG1350957
1,4-Dichlorobenzene	U		0.00227	0.00577	1	09/24/2019 19:03	WG1350957
Dichlorodifluoromethane	U		0.000944	0.00289	1	09/24/2019 19:03	WG1350957
1,1-Dichloroethane	U		0.000664	0.00289	1	09/24/2019 19:03	WG1350957
1,2-Dichloroethane	U		0.000548	0.00289	1	09/24/2019 19:03	WG1350957
1,1-Dichloroethene	U		0.000577	0.00289	1	09/24/2019 19:03	WG1350957
cis-1,2-Dichloroethene	U		0.000797	0.00289	1	09/24/2019 19:03	WG1350957
trans-1,2-Dichloroethene	U		0.00165	0.00577	1	09/24/2019 19:03	WG1350957
1,2-Dichloropropane	U		0.00147	0.00577	1	09/24/2019 19:03	WG1350957
1,1-Dichloropropene	U		0.000808	0.00289	1	09/24/2019 19:03	WG1350957
1,3-Dichloropropane	U		0.00202	0.00577	1	09/24/2019 19:03	WG1350957
cis-1,3-Dichloropropene	U		0.000783	0.00289	1	09/24/2019 19:03	WG1350957
trans-1,3-Dichloropropene	U		0.00177	0.00577	1	09/24/2019 19:03	WG1350957
trans-1,4-Dichloro-2-butene	U		0.00162	0.00577	1	09/24/2019 19:03	WG1350957
2,2-Dichloropropane	U		0.000916	0.00289	1	09/24/2019 19:03	WG1350957
Di-isopropyl ether	U		0.000404	0.00115	1	09/24/2019 19:03	WG1350957
Ethylbenzene	U		0.000612	0.00289	1	09/24/2019 19:03	WG1350957
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1	09/24/2019 19:03	WG1350957
2-Hexanone	U UJ	J0	0.0115	0.0289	1	09/24/2019 19:03	WG1350957
n-Hexane	U UJ	J0	0.00122	0.00577	1	09/24/2019 19:03	WG1350957
Iodomethane	U		0.00699	0.0144	1	09/24/2019 19:03	WG1350957
Isopropylbenzene	U		0.000996	0.00289	1	09/24/2019 19:03	WG1350957
p-Isopropyltoluene	U		0.00269	0.00577	1	09/24/2019 19:03	WG1350957
2-Butanone (MEK)	0.0168 J	J	0.0144	0.0289	1	09/24/2019 19:03	WG1350957
Methylene Chloride	U		0.00767	0.0289	1	09/24/2019 19:03	WG1350957
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0289	1	09/24/2019 19:03	WG1350957

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000341	0.00115	1	09/24/2019 19:03	WG1350957
Naphthalene	U		0.00360	0.0144	1	09/24/2019 19:03	WG1350957
n-Propylbenzene	U		0.00136	0.00577	1	09/24/2019 19:03	WG1350957
Styrene	U		0.00315	0.0144	1	09/24/2019 19:03	WG1350957
1,1,1,2-Tetrachloroethane	U		0.000577	0.00289	1	09/24/2019 19:03	WG1350957
1,1,2,2-Tetrachloroethane	U	UJ J0 J4	0.000450	0.00289	1	09/24/2019 19:03	WG1350957
1,1,2-Trichlorotrifluoroethane	U		0.000779	0.00289	1	09/24/2019 19:03	WG1350957
Tetrachloroethene	U		0.000808	0.00289	1	09/24/2019 19:03	WG1350957
Toluene	0.00987		0.00144	0.00577	1	09/24/2019 19:03	WG1350957
1,2,3-Trichlorobenzene	U		0.000722	0.00289	1	09/24/2019 19:03	WG1350957
1,2,4-Trichlorobenzene	U		0.00557	0.0144	1	09/24/2019 19:03	WG1350957
1,1,1-Trichloroethane	U		0.000318	0.00289	1	09/24/2019 19:03	WG1350957
1,1,2-Trichloroethane	U		0.00102	0.00289	1	09/24/2019 19:03	WG1350957
Trichloroethene	U		0.000462	0.00115	1	09/24/2019 19:03	WG1350957
Trichlorofluoromethane	U		0.000577	0.00289	1	09/24/2019 19:03	WG1350957
1,2,3-Trichloropropane	U		0.00589	0.0144	1	09/24/2019 19:03	WG1350957
1,2,4-Trimethylbenzene	U		0.00134	0.00577	1	09/24/2019 19:03	WG1350957
1,2,3-Trimethylbenzene	U		0.00133	0.00577	1	09/24/2019 19:03	WG1350957
1,3,5-Trimethylbenzene	U	UJ	0.00125	0.00577	1	09/24/2019 19:03	WG1350957
Vinyl acetate	U	UJ J0	0.00406	0.0144	1	09/24/2019 19:03	WG1350957
Vinyl chloride	U		0.000789	0.00289	1	09/24/2019 19:03	WG1350957
Xylenes, Total	U		0.00552	0.00750	1	09/24/2019 19:03	WG1350957
(S) Toluene-d8	*109*			*75.0-131*		*09/24/2019 19:03*	WG1350957
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/24/2019 19:03*	WG1350957
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/24/2019 19:03*	WG1350957

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.7		1	09/27/2019 10:50	WG1352829

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.03 J	J	0.978	2.88	25	09/28/2019 17:47	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*09/28/2019 17:47*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0289	B	0.0158	0.0288	1	09/28/2019 15:29	WG1353861
Acrylonitrile	U		0.00219	0.0144	1	09/28/2019 15:29	WG1353861
Benzene	0.000741 J	J	0.000461	0.00115	1	09/28/2019 15:29	WG1353861
Bromobenzene	U		0.00121	0.0144	1	09/28/2019 15:29	WG1353861
Bromodichloromethane	U		0.000909	0.00288	1	09/28/2019 15:29	WG1353861
Bromochloromethane	U		0.00130	0.00577	1	09/28/2019 15:29	WG1353861
Bromoform	U		0.00690	0.0288	1	09/28/2019 15:29	WG1353861
Bromomethane	U		0.00427	0.0144	1	09/28/2019 15:29	WG1353861
n-Butylbenzene	U		0.00443	0.0144	1	09/28/2019 15:29	WG1353861
sec-Butylbenzene	U		0.00292	0.0144	1	09/28/2019 15:29	WG1353861
tert-Butylbenzene	U		0.00179	0.00577	1	09/28/2019 15:29	WG1353861
Carbon disulfide	U		0.00468	0.0144	1	09/28/2019 15:29	WG1353861
Carbon tetrachloride	U		0.00125	0.00577	1	09/28/2019 15:29	WG1353861
Chlorobenzene	U		0.000661	0.00288	1	09/28/2019 15:29	WG1353861
Chlorodibromomethane	U		0.000519	0.00288	1	09/28/2019 15:29	WG1353861
Chloroethane	U		0.00125	0.00577	1	09/28/2019 15:29	WG1353861
Chloroform	0.000714 U	B J	0.000479	0.00288	1	09/28/2019 15:29	WG1353861
Chloromethane	U		0.00160	0.0144	1	09/28/2019 15:29	WG1353861
2-Chlorotoluene	U		0.00106	0.00288	1	09/28/2019 15:29	WG1353861
4-Chlorotoluene	U		0.00130	0.00577	1	09/28/2019 15:29	WG1353861
1,2-Dibromo-3-Chloropropane	U		0.00588	0.0288	1	09/28/2019 15:29	WG1353861
1,2-Dibromoethane	U		0.000606	0.00288	1	09/28/2019 15:29	WG1353861
Dibromomethane	U		0.00115	0.00577	1	09/28/2019 15:29	WG1353861
1,2-Dichlorobenzene	U		0.00167	0.00577	1	09/28/2019 15:29	WG1353861
1,3-Dichlorobenzene	U		0.00196	0.00577	1	09/28/2019 15:29	WG1353861
1,4-Dichlorobenzene	U		0.00227	0.00577	1	09/28/2019 15:29	WG1353861
Dichlorodifluoromethane	U		0.000943	0.00288	1	09/28/2019 15:29	WG1353861
1,1-Dichloroethane	U		0.000663	0.00288	1	09/28/2019 15:29	WG1353861
1,2-Dichloroethane	U		0.000548	0.00288	1	09/28/2019 15:29	WG1353861
1,1-Dichloroethene	U		0.000577	0.00288	1	09/28/2019 15:29	WG1353861
cis-1,2-Dichloroethene	U		0.000796	0.00288	1	09/28/2019 15:29	WG1353861
trans-1,2-Dichloroethene	U		0.00165	0.00577	1	09/28/2019 15:29	WG1353861
1,2-Dichloropropane	U		0.00146	0.00577	1	09/28/2019 15:29	WG1353861
1,1-Dichloropropene	U		0.000807	0.00288	1	09/28/2019 15:29	WG1353861
1,3-Dichloropropane	U		0.00202	0.00577	1	09/28/2019 15:29	WG1353861
cis-1,3-Dichloropropene	U		0.000782	0.00288	1	09/28/2019 15:29	WG1353861
trans-1,3-Dichloropropene	U		0.00176	0.00577	1	09/28/2019 15:29	WG1353861
trans-1,4-Dichloro-2-butene	U		0.00161	0.00577	1	09/28/2019 15:29	WG1353861
2,2-Dichloropropane	U		0.000915	0.00288	1	09/28/2019 15:29	WG1353861
Di-isopropyl ether	U		0.000404	0.00115	1	09/28/2019 15:29	WG1353861
Ethylbenzene	U		0.000611	0.00288	1	09/28/2019 15:29	WG1353861
Hexachloro-1,3-butadiene	U		0.0146	0.0288	1	09/28/2019 15:29	WG1353861
2-Hexanone	U		0.0115	0.0288	1	09/28/2019 15:29	WG1353861
n-Hexane	0.0166		0.00122	0.00577	1	09/28/2019 15:29	WG1353861

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00698	0.0144	1	09/28/2019 15:29	WG1353861
Isopropylbenzene	U		0.000995	0.00288	1	09/28/2019 15:29	WG1353861
p-Isopropyltoluene	U		0.00269	0.00577	1	09/28/2019 15:29	WG1353861
2-Butanone (MEK)	0.0188 U	B J	0.0144	0.0288	1	09/28/2019 15:29	WG1353861
Methylene Chloride	U		0.00766	0.0288	1	09/28/2019 15:29	WG1353861
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0288	1	09/28/2019 15:29	WG1353861
Methyl tert-butyl ether	U		0.000340	0.00115	1	09/28/2019 15:29	WG1353861
Naphthalene	U		0.00360	0.0144	1	09/28/2019 15:29	WG1353861
n-Propylbenzene	U		0.00136	0.00577	1	09/28/2019 15:29	WG1353861
Styrene	U		0.00315	0.0144	1	09/28/2019 15:29	WG1353861
1,1,1,2-Tetrachloroethane	U		0.000577	0.00288	1	09/28/2019 15:29	WG1353861
1,1,2,2-Tetrachloroethane	U		0.000450	0.00288	1	09/28/2019 15:29	WG1353861
1,1,2-Trichlorotrifluoroethane	U		0.000779	0.00288	1	09/28/2019 15:29	WG1353861
Tetrachloroethene	0.0166		0.000807	0.00288	1	09/28/2019 15:29	WG1353861
Toluene	0.00891		0.00144	0.00577	1	09/28/2019 15:29	WG1353861
1,2,3-Trichlorobenzene	U		0.000721	0.00288	1	09/28/2019 15:29	WG1353861
1,2,4-Trichlorobenzene	U		0.00556	0.0144	1	09/28/2019 15:29	WG1353861
1,1,1-Trichloroethane	U		0.000317	0.00288	1	09/28/2019 15:29	WG1353861
1,1,2-Trichloroethane	U		0.00102	0.00288	1	09/28/2019 15:29	WG1353861
Trichloroethene	U		0.000461	0.00115	1	09/28/2019 15:29	WG1353861
Trichlorofluoromethane	U		0.000577	0.00288	1	09/28/2019 15:29	WG1353861
1,2,3-Trichloropropane	U		0.00588	0.0144	1	09/28/2019 15:29	WG1353861
1,2,4-Trimethylbenzene	0.00259 J	J	0.00134	0.00577	1	09/28/2019 15:29	WG1353861
1,2,3-Trimethylbenzene	0.00141 J	J	0.00133	0.00577	1	09/28/2019 15:29	WG1353861
1,3,5-Trimethylbenzene	U		0.00125	0.00577	1	09/28/2019 15:29	WG1353861
Vinyl acetate	U		0.00406	0.0144	1	09/28/2019 15:29	WG1353861
Vinyl chloride	U		0.000788	0.00288	1	09/28/2019 15:29	WG1353861
Xylenes, Total	U		0.00551	0.00750	1	09/28/2019 15:29	WG1353861
(S) Toluene-d8	*107*			*75.0-131*		*09/28/2019 15:29*	WG1353861
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*09/28/2019 15:29*	WG1353861
(S) 1,2-Dichloroethane-d4	*93.4*			*70.0-130*		*09/28/2019 15:29*	WG1353861

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	62.9		1	09/27/2019 10:50	WG1352829

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3.07	J	1.75	5.17	32.5	09/28/2019 18:28	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*77.0-120*		*09/28/2019 18:28*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0911	B	0.0283	0.0517	1.3	09/28/2019 15:50	WG1353861
Acrylonitrile	U		0.00393	0.0258	1.3	09/28/2019 15:50	WG1353861
Benzene	0.00553		0.000827	0.00207	1.3	09/28/2019 15:50	WG1353861
Bromobenzene	U		0.00216	0.0258	1.3	09/28/2019 15:50	WG1353861
Bromodichloromethane	U		0.00162	0.00517	1.3	09/28/2019 15:50	WG1353861
Bromochloromethane	U		0.00234	0.0103	1.3	09/28/2019 15:50	WG1353861
Bromoform	U		0.0124	0.0517	1.3	09/28/2019 15:50	WG1353861
Bromomethane	U		0.00765	0.0258	1.3	09/28/2019 15:50	WG1353861
n-Butylbenzene	U		0.00794	0.0258	1.3	09/28/2019 15:50	WG1353861
sec-Butylbenzene	U		0.00523	0.0258	1.3	09/28/2019 15:50	WG1353861
tert-Butylbenzene	U		0.00321	0.0103	1.3	09/28/2019 15:50	WG1353861
Carbon disulfide	U		0.00840	0.0258	1.3	09/28/2019 15:50	WG1353861
Carbon tetrachloride	U		0.00223	0.0103	1.3	09/28/2019 15:50	WG1353861
Chlorobenzene	U		0.00118	0.00517	1.3	09/28/2019 15:50	WG1353861
Chlorodibromomethane	U		0.000930	0.00517	1.3	09/28/2019 15:50	WG1353861
Chloroethane	U		0.00223	0.0103	1.3	09/28/2019 15:50	WG1353861
Chloroform	U		0.000859	0.00517	1.3	09/28/2019 15:50	WG1353861
Chloromethane	U		0.00288	0.0258	1.3	09/28/2019 15:50	WG1353861
2-Chlorotoluene	U		0.00191	0.00517	1.3	09/28/2019 15:50	WG1353861
4-Chlorotoluene	U		0.00234	0.0103	1.3	09/28/2019 15:50	WG1353861
1,2-Dibromo-3-Chloropropane	U		0.0105	0.0517	1.3	09/28/2019 15:50	WG1353861
1,2-Dibromoethane	U		0.00108	0.00517	1.3	09/28/2019 15:50	WG1353861
Dibromomethane	U		0.00207	0.0103	1.3	09/28/2019 15:50	WG1353861
1,2-Dichlorobenzene	U		0.00299	0.0103	1.3	09/28/2019 15:50	WG1353861
1,3-Dichlorobenzene	U		0.00352	0.0103	1.3	09/28/2019 15:50	WG1353861
1,4-Dichlorobenzene	U		0.00407	0.0103	1.3	09/28/2019 15:50	WG1353861
Dichlorodifluoromethane	U		0.00169	0.00517	1.3	09/28/2019 15:50	WG1353861
1,1-Dichloroethane	U		0.00119	0.00517	1.3	09/28/2019 15:50	WG1353861
1,2-Dichloroethane	U		0.000983	0.00517	1.3	09/28/2019 15:50	WG1353861
1,1-Dichloroethene	U		0.00103	0.00517	1.3	09/28/2019 15:50	WG1353861
cis-1,2-Dichloroethene	U		0.00143	0.00517	1.3	09/28/2019 15:50	WG1353861
trans-1,2-Dichloroethene	U		0.00296	0.0103	1.3	09/28/2019 15:50	WG1353861
1,2-Dichloropropane	U		0.00262	0.0103	1.3	09/28/2019 15:50	WG1353861
1,1-Dichloropropene	U		0.00145	0.00517	1.3	09/28/2019 15:50	WG1353861
1,3-Dichloropropane	U		0.00363	0.0103	1.3	09/28/2019 15:50	WG1353861
cis-1,3-Dichloropropene	U		0.00140	0.00517	1.3	09/28/2019 15:50	WG1353861
trans-1,3-Dichloropropene	U		0.00317	0.0103	1.3	09/28/2019 15:50	WG1353861
trans-1,4-Dichloro-2-butene	U		0.00289	0.0103	1.3	09/28/2019 15:50	WG1353861
2,2-Dichloropropane	U		0.00164	0.00517	1.3	09/28/2019 15:50	WG1353861
Di-isopropyl ether	U		0.000724	0.00207	1.3	09/28/2019 15:50	WG1353861
Ethylbenzene	0.00350 J	J	0.00110	0.00517	1.3	09/28/2019 15:50	WG1353861
Hexachloro-1,3-butadiene	U		0.0262	0.0517	1.3	09/28/2019 15:50	WG1353861
2-Hexanone	U		0.0207	0.0517	1.3	09/28/2019 15:50	WG1353861
n-Hexane	0.0365		0.00219	0.0103	1.3	09/28/2019 15:50	WG1353861

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Iodomethane	U			0.0125	0.0258	1.3	09/28/2019 15:50	WG1353861
Isopropylbenzene	U			0.00178	0.00517	1.3	09/28/2019 15:50	WG1353861
p-Isopropyltoluene	0.0104			0.00482	0.0103	1.3	09/28/2019 15:50	WG1353861
2-Butanone (MEK)	0.0597		B	0.0258	0.0517	1.3	09/28/2019 15:50	WG1353861
Methylene Chloride	0.0140	J	J	0.0137	0.0517	1.3	09/28/2019 15:50	WG1353861
4-Methyl-2-pentanone (MIBK)	U			0.0207	0.0517	1.3	09/28/2019 15:50	WG1353861
Methyl tert-butyl ether	U			0.000611	0.00207	1.3	09/28/2019 15:50	WG1353861
Naphthalene	U			0.00646	0.0258	1.3	09/28/2019 15:50	WG1353861
n-Propylbenzene	U			0.00243	0.0103	1.3	09/28/2019 15:50	WG1353861
Styrene	U			0.00565	0.0258	1.3	09/28/2019 15:50	WG1353861
1,1,1,2-Tetrachloroethane	U			0.00103	0.00517	1.3	09/28/2019 15:50	WG1353861
1,1,2,2-Tetrachloroethane	U			0.000806	0.00517	1.3	09/28/2019 15:50	WG1353861
1,1,2-Trichlorotrifluoroethane	U			0.00140	0.00517	1.3	09/28/2019 15:50	WG1353861
Tetrachloroethene	0.0965			0.00145	0.00517	1.3	09/28/2019 15:50	WG1353861
Toluene	0.0371			0.00258	0.0103	1.3	09/28/2019 15:50	WG1353861
1,2,3-Trichlorobenzene	U			0.00129	0.00517	1.3	09/28/2019 15:50	WG1353861
1,2,4-Trichlorobenzene	U			0.00997	0.0258	1.3	09/28/2019 15:50	WG1353861
1,1,1-Trichloroethane	U			0.000569	0.00517	1.3	09/28/2019 15:50	WG1353861
1,1,2-Trichloroethane	U			0.00183	0.00517	1.3	09/28/2019 15:50	WG1353861
Trichloroethene	U			0.000827	0.00207	1.3	09/28/2019 15:50	WG1353861
Trichlorofluoromethane	U			0.00103	0.00517	1.3	09/28/2019 15:50	WG1353861
1,2,3-Trichloropropane	U			0.0105	0.0258	1.3	09/28/2019 15:50	WG1353861
1,2,4-Trimethylbenzene	0.0112			0.00240	0.0103	1.3	09/28/2019 15:50	WG1353861
1,2,3-Trimethylbenzene	0.00715	J	J	0.00239	0.0103	1.3	09/28/2019 15:50	WG1353861
1,3,5-Trimethylbenzene	0.00380	J	J	0.00223	0.0103	1.3	09/28/2019 15:50	WG1353861
Vinyl acetate	U			0.00728	0.0258	1.3	09/28/2019 15:50	WG1353861
Vinyl chloride	U			0.00141	0.00517	1.3	09/28/2019 15:50	WG1353861
Xylenes, Total	0.0280			0.00988	0.0134	1.3	09/28/2019 15:50	WG1353861
(S) Toluene-d8	*107*				*75.0-131*		*09/28/2019 15:50*	WG1353861
(S) 4-Bromofluorobenzene	*97.4*				*67.0-138*		*09/28/2019 15:50*	WG1353861
(S) 1,2-Dichloroethane-d4	*95.1*				*70.0-130*		*09/28/2019 15:50*	WG1353861

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.5		1	09/27/2019 10:50	WG1352829

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		1.12	3.31	25	09/28/2019 18:49	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*09/28/2019 18:49*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0618	B	0.0181	0.0331	1	09/28/2019 16:12	WG1353861
Acrylonitrile	U		0.00252	0.0165	1	09/28/2019 16:12	WG1353861
Benzene	U		0.000530	0.00132	1	09/28/2019 16:12	WG1353861
Bromobenzene	U		0.00139	0.0165	1	09/28/2019 16:12	WG1353861
Bromodichloromethane	U		0.00104	0.00331	1	09/28/2019 16:12	WG1353861
Bromochloromethane	U		0.00150	0.00662	1	09/28/2019 16:12	WG1353861
Bromoform	U		0.00792	0.0331	1	09/28/2019 16:12	WG1353861
Bromomethane	U		0.00490	0.0165	1	09/28/2019 16:12	WG1353861
n-Butylbenzene	U		0.00508	0.0165	1	09/28/2019 16:12	WG1353861
sec-Butylbenzene	U		0.00335	0.0165	1	09/28/2019 16:12	WG1353861
tert-Butylbenzene	U		0.00205	0.00662	1	09/28/2019 16:12	WG1353861
Carbon disulfide	U		0.00537	0.0165	1	09/28/2019 16:12	WG1353861
Carbon tetrachloride	U		0.00143	0.00662	1	09/28/2019 16:12	WG1353861
Chlorobenzene	U		0.000759	0.00331	1	09/28/2019 16:12	WG1353861
Chlorodibromomethane	U		0.000596	0.00331	1	09/28/2019 16:12	WG1353861
Chloroethane	U		0.00143	0.00662	1	09/28/2019 16:12	WG1353861
Chloroform	0.000727 U	B J	0.000549	0.00331	1	09/28/2019 16:12	WG1353861
Chloromethane	U		0.00184	0.0165	1	09/28/2019 16:12	WG1353861
2-Chlorotoluene	U		0.00122	0.00331	1	09/28/2019 16:12	WG1353861
4-Chlorotoluene	U		0.00150	0.00662	1	09/28/2019 16:12	WG1353861
1,2-Dibromo-3-Chloropropane	U		0.00675	0.0331	1	09/28/2019 16:12	WG1353861
1,2-Dibromoethane	U		0.000695	0.00331	1	09/28/2019 16:12	WG1353861
Dibromomethane	U		0.00132	0.00662	1	09/28/2019 16:12	WG1353861
1,2-Dichlorobenzene	U		0.00192	0.00662	1	09/28/2019 16:12	WG1353861
1,3-Dichlorobenzene	U		0.00225	0.00662	1	09/28/2019 16:12	WG1353861
1,4-Dichlorobenzene	U		0.00261	0.00662	1	09/28/2019 16:12	WG1353861
Dichlorodifluoromethane	U		0.00108	0.00331	1	09/28/2019 16:12	WG1353861
1,1-Dichloroethane	U		0.000761	0.00331	1	09/28/2019 16:12	WG1353861
1,2-Dichloroethane	U		0.000629	0.00331	1	09/28/2019 16:12	WG1353861
1,1-Dichloroethene	U		0.000662	0.00331	1	09/28/2019 16:12	WG1353861
cis-1,2-Dichloroethene	U		0.000913	0.00331	1	09/28/2019 16:12	WG1353861
trans-1,2-Dichloroethene	U		0.00189	0.00662	1	09/28/2019 16:12	WG1353861
1,2-Dichloropropane	U		0.00168	0.00662	1	09/28/2019 16:12	WG1353861
1,1-Dichloropropene	U		0.000927	0.00331	1	09/28/2019 16:12	WG1353861
1,3-Dichloropropane	U		0.00232	0.00662	1	09/28/2019 16:12	WG1353861
cis-1,3-Dichloropropene	U		0.000898	0.00331	1	09/28/2019 16:12	WG1353861
trans-1,3-Dichloropropene	U		0.00203	0.00662	1	09/28/2019 16:12	WG1353861
trans-1,4-Dichloro-2-butene	U		0.00185	0.00662	1	09/28/2019 16:12	WG1353861
2,2-Dichloropropane	U		0.00105	0.00331	1	09/28/2019 16:12	WG1353861
Di-isopropyl ether	U		0.000463	0.00132	1	09/28/2019 16:12	WG1353861
Ethylbenzene	U		0.000702	0.00331	1	09/28/2019 16:12	WG1353861
Hexachloro-1,3-butadiene	U		0.0168	0.0331	1	09/28/2019 16:12	WG1353861
2-Hexanone	U		0.0132	0.0331	1	09/28/2019 16:12	WG1353861
n-Hexane	0.0229		0.00140	0.00662	1	09/28/2019 16:12	WG1353861

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00801	0.0165	1	09/28/2019 16:12	WG1353861
Isopropylbenzene	U		0.00114	0.00331	1	09/28/2019 16:12	WG1353861
p-Isopropyltoluene	U		0.00308	0.00662	1	09/28/2019 16:12	WG1353861
2-Butanone (MEK)	0.0360	B	0.0165	0.0331	1	09/28/2019 16:12	WG1353861
Methylene Chloride	U		0.00879	0.0331	1	09/28/2019 16:12	WG1353861
4-Methyl-2-pentanone (MIBK)	U		0.0132	0.0331	1	09/28/2019 16:12	WG1353861
Methyl tert-butyl ether	U		0.000391	0.00132	1	09/28/2019 16:12	WG1353861
Naphthalene	U		0.00413	0.0165	1	09/28/2019 16:12	WG1353861
n-Propylbenzene	U		0.00156	0.00662	1	09/28/2019 16:12	WG1353861
Styrene	U		0.00361	0.0165	1	09/28/2019 16:12	WG1353861
1,1,1,2-Tetrachloroethane	U		0.000662	0.00331	1	09/28/2019 16:12	WG1353861
1,1,2,2-Tetrachloroethane	U		0.000516	0.00331	1	09/28/2019 16:12	WG1353861
1,1,2-Trichlorotrifluoroethane	U		0.000894	0.00331	1	09/28/2019 16:12	WG1353861
Tetrachloroethene	U		0.000927	0.00331	1	09/28/2019 16:12	WG1353861
Toluene	0.0200		0.00165	0.00662	1	09/28/2019 16:12	WG1353861
1,2,3-Trichlorobenzene	U		0.000827	0.00331	1	09/28/2019 16:12	WG1353861
1,2,4-Trichlorobenzene	U		0.00638	0.0165	1	09/28/2019 16:12	WG1353861
1,1,1-Trichloroethane	U		0.000364	0.00331	1	09/28/2019 16:12	WG1353861
1,1,2-Trichloroethane	U		0.00117	0.00331	1	09/28/2019 16:12	WG1353861
Trichloroethene	U		0.000530	0.00132	1	09/28/2019 16:12	WG1353861
Trichlorofluoromethane	U		0.000662	0.00331	1	09/28/2019 16:12	WG1353861
1,2,3-Trichloropropane	U		0.00675	0.0165	1	09/28/2019 16:12	WG1353861
1,2,4-Trimethylbenzene	U		0.00154	0.00662	1	09/28/2019 16:12	WG1353861
1,2,3-Trimethylbenzene	U		0.00152	0.00662	1	09/28/2019 16:12	WG1353861
1,3,5-Trimethylbenzene	U		0.00143	0.00662	1	09/28/2019 16:12	WG1353861
Vinyl acetate	U		0.00466	0.0165	1	09/28/2019 16:12	WG1353861
Vinyl chloride	U		0.000904	0.00331	1	09/28/2019 16:12	WG1353861
Xylenes, Total	U		0.00633	0.00860	1	09/28/2019 16:12	WG1353861
(S) Toluene-d8	*106*			*75.0-131*		*09/28/2019 16:12*	WG1353861
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*09/28/2019 16:12*	WG1353861
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*09/28/2019 16:12*	WG1353861

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.3		1	09/27/2019 10:50	WG1352829

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		1.06	3.11	25	09/28/2019 19:10	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*94.4*			*77.0-120*		*09/28/2019 19:10*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0748	B	0.0171	0.0311	1	09/28/2019 16:34	WG1353861
Acrylonitrile	U		0.00236	0.0156	1	09/28/2019 16:34	WG1353861
Benzene	0.00144		0.000498	0.00124	1	09/28/2019 16:34	WG1353861
Bromobenzene	U		0.00131	0.0156	1	09/28/2019 16:34	WG1353861
Bromodichloromethane	U		0.000981	0.00311	1	09/28/2019 16:34	WG1353861
Bromochloromethane	U		0.00141	0.00622	1	09/28/2019 16:34	WG1353861
Bromoform	U		0.00744	0.0311	1	09/28/2019 16:34	WG1353861
Bromomethane	U		0.00461	0.0156	1	09/28/2019 16:34	WG1353861
n-Butylbenzene	U		0.00478	0.0156	1	09/28/2019 16:34	WG1353861
sec-Butylbenzene	U		0.00315	0.0156	1	09/28/2019 16:34	WG1353861
tert-Butylbenzene	U		0.00193	0.00622	1	09/28/2019 16:34	WG1353861
Carbon disulfide	0.00676 J	J	0.00505	0.0156	1	09/28/2019 16:34	WG1353861
Carbon tetrachloride	U		0.00134	0.00622	1	09/28/2019 16:34	WG1353861
Chlorobenzene	U		0.000713	0.00311	1	09/28/2019 16:34	WG1353861
Chlorodibromomethane	U		0.000560	0.00311	1	09/28/2019 16:34	WG1353861
Chloroethane	U		0.00134	0.00622	1	09/28/2019 16:34	WG1353861
Chloroform	0.000922 U	B J	0.000517	0.00311	1	09/28/2019 16:34	WG1353861
Chloromethane	U		0.00173	0.0156	1	09/28/2019 16:34	WG1353861
2-Chlorotoluene	U		0.00115	0.00311	1	09/28/2019 16:34	WG1353861
4-Chlorotoluene	U		0.00141	0.00622	1	09/28/2019 16:34	WG1353861
1,2-Dibromo-3-Chloropropane	U		0.00635	0.0311	1	09/28/2019 16:34	WG1353861
1,2-Dibromoethane	U		0.000653	0.00311	1	09/28/2019 16:34	WG1353861
Dibromomethane	U		0.00124	0.00622	1	09/28/2019 16:34	WG1353861
1,2-Dichlorobenzene	U		0.00180	0.00622	1	09/28/2019 16:34	WG1353861
1,3-Dichlorobenzene	U		0.00212	0.00622	1	09/28/2019 16:34	WG1353861
1,4-Dichlorobenzene	U		0.00245	0.00622	1	09/28/2019 16:34	WG1353861
Dichlorodifluoromethane	U		0.00102	0.00311	1	09/28/2019 16:34	WG1353861
1,1-Dichloroethane	U		0.000716	0.00311	1	09/28/2019 16:34	WG1353861
1,2-Dichloroethane	U		0.000591	0.00311	1	09/28/2019 16:34	WG1353861
1,1-Dichloroethene	U		0.000622	0.00311	1	09/28/2019 16:34	WG1353861
cis-1,2-Dichloroethene	0.00477		0.000859	0.00311	1	09/28/2019 16:34	WG1353861
trans-1,2-Dichloroethene	U		0.00178	0.00622	1	09/28/2019 16:34	WG1353861
1,2-Dichloropropane	U		0.00158	0.00622	1	09/28/2019 16:34	WG1353861
1,1-Dichloropropene	U		0.000871	0.00311	1	09/28/2019 16:34	WG1353861
1,3-Dichloropropane	U		0.00218	0.00622	1	09/28/2019 16:34	WG1353861
cis-1,3-Dichloropropene	U		0.000844	0.00311	1	09/28/2019 16:34	WG1353861
trans-1,3-Dichloropropene	U		0.00190	0.00622	1	09/28/2019 16:34	WG1353861
trans-1,4-Dichloro-2-butene	U		0.00174	0.00622	1	09/28/2019 16:34	WG1353861
2,2-Dichloropropane	U		0.000987	0.00311	1	09/28/2019 16:34	WG1353861
Di-isopropyl ether	U		0.000436	0.00124	1	09/28/2019 16:34	WG1353861
Ethylbenzene	0.00108 J	J	0.000660	0.00311	1	09/28/2019 16:34	WG1353861
Hexachloro-1,3-butadiene	U		0.0158	0.0311	1	09/28/2019 16:34	WG1353861
2-Hexanone	U		0.0124	0.0311	1	09/28/2019 16:34	WG1353861
n-Hexane	0.0303		0.00132	0.00622	1	09/28/2019 16:34	WG1353861

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00753	0.0156	1	09/28/2019 16:34	WG1353861
Isopropylbenzene	0.00113 J	J	0.00107	0.00311	1	09/28/2019 16:34	WG1353861
p-Isopropyltoluene	U		0.00290	0.00622	1	09/28/2019 16:34	WG1353861
2-Butanone (MEK)	0.0454	B	0.0156	0.0311	1	09/28/2019 16:34	WG1353861
Methylene Chloride	U		0.00826	0.0311	1	09/28/2019 16:34	WG1353861
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0311	1	09/28/2019 16:34	WG1353861
Methyl tert-butyl ether	U		0.000367	0.00124	1	09/28/2019 16:34	WG1353861
Naphthalene	U		0.00388	0.0156	1	09/28/2019 16:34	WG1353861
n-Propylbenzene	U		0.00147	0.00622	1	09/28/2019 16:34	WG1353861
Styrene	U		0.00340	0.0156	1	09/28/2019 16:34	WG1353861
1,1,1,2-Tetrachloroethane	U		0.000622	0.00311	1	09/28/2019 16:34	WG1353861
1,1,2,2-Tetrachloroethane	U		0.000485	0.00311	1	09/28/2019 16:34	WG1353861
1,1,2-Trichlorotrifluoroethane	U		0.000840	0.00311	1	09/28/2019 16:34	WG1353861
Tetrachloroethene	U		0.000871	0.00311	1	09/28/2019 16:34	WG1353861
Toluene	0.0172		0.00156	0.00622	1	09/28/2019 16:34	WG1353861
1,2,3-Trichlorobenzene	U		0.000778	0.00311	1	09/28/2019 16:34	WG1353861
1,2,4-Trichlorobenzene	U		0.00600	0.0156	1	09/28/2019 16:34	WG1353861
1,1,1-Trichloroethane	U		0.000342	0.00311	1	09/28/2019 16:34	WG1353861
1,1,2-Trichloroethane	U		0.00110	0.00311	1	09/28/2019 16:34	WG1353861
Trichloroethene	U		0.000498	0.00124	1	09/28/2019 16:34	WG1353861
Trichlorofluoromethane	U		0.000622	0.00311	1	09/28/2019 16:34	WG1353861
1,2,3-Trichloropropane	U		0.00635	0.0156	1	09/28/2019 16:34	WG1353861
1,2,4-Trimethylbenzene	0.00153 J	J	0.00144	0.00622	1	09/28/2019 16:34	WG1353861
1,2,3-Trimethylbenzene	U		0.00143	0.00622	1	09/28/2019 16:34	WG1353861
1,3,5-Trimethylbenzene	U		0.00134	0.00622	1	09/28/2019 16:34	WG1353861
Vinyl acetate	U		0.00438	0.0156	1	09/28/2019 16:34	WG1353861
Vinyl chloride	0.00116 J	J	0.000850	0.00311	1	09/28/2019 16:34	WG1353861
Xylenes, Total	U		0.00595	0.00809	1	09/28/2019 16:34	WG1353861
(S) Toluene-d8	*107*			*75.0-131*		*09/28/2019 16:34*	WG1353861
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*		*09/28/2019 16:34*	WG1353861
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*		*09/28/2019 16:34*	WG1353861

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.2		1	09/27/2019 10:50	WG1352829

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		0.995	2.93	25	09/28/2019 19:30	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*09/28/2019 19:30*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0414	B	0.0161	0.0293	1	09/28/2019 16:55	WG1353861
Acrylonitrile	U		0.00223	0.0147	1	09/28/2019 16:55	WG1353861
Benzene	0.000484 J	J	0.000470	0.00117	1	09/28/2019 16:55	WG1353861
Bromobenzene	U		0.00123	0.0147	1	09/28/2019 16:55	WG1353861
Bromodichloromethane	U		0.000925	0.00293	1	09/28/2019 16:55	WG1353861
Bromochloromethane	U		0.00133	0.00587	1	09/28/2019 16:55	WG1353861
Bromoform	U		0.00702	0.0293	1	09/28/2019 16:55	WG1353861
Bromomethane	U		0.00434	0.0147	1	09/28/2019 16:55	WG1353861
n-Butylbenzene	U		0.00451	0.0147	1	09/28/2019 16:55	WG1353861
sec-Butylbenzene	U		0.00297	0.0147	1	09/28/2019 16:55	WG1353861
tert-Butylbenzene	U		0.00182	0.00587	1	09/28/2019 16:55	WG1353861
Carbon disulfide	U		0.00477	0.0147	1	09/28/2019 16:55	WG1353861
Carbon tetrachloride	U		0.00127	0.00587	1	09/28/2019 16:55	WG1353861
Chlorobenzene	U		0.000673	0.00293	1	09/28/2019 16:55	WG1353861
Chlorodibromomethane	U		0.000528	0.00293	1	09/28/2019 16:55	WG1353861
Chloroethane	U		0.00127	0.00587	1	09/28/2019 16:55	WG1353861
Chloroform	0.000724 U	B J	0.000487	0.00293	1	09/28/2019 16:55	WG1353861
Chloromethane	U		0.00163	0.0147	1	09/28/2019 16:55	WG1353861
2-Chlorotoluene	U		0.00108	0.00293	1	09/28/2019 16:55	WG1353861
4-Chlorotoluene	U		0.00133	0.00587	1	09/28/2019 16:55	WG1353861
1,2-Dibromo-3-Chloropropane	U		0.00599	0.0293	1	09/28/2019 16:55	WG1353861
1,2-Dibromoethane	U		0.000616	0.00293	1	09/28/2019 16:55	WG1353861
Dibromomethane	U		0.00117	0.00587	1	09/28/2019 16:55	WG1353861
1,2-Dichlorobenzene	U		0.00170	0.00587	1	09/28/2019 16:55	WG1353861
1,3-Dichlorobenzene	U		0.00200	0.00587	1	09/28/2019 16:55	WG1353861
1,4-Dichlorobenzene	U		0.00231	0.00587	1	09/28/2019 16:55	WG1353861
Dichlorodifluoromethane	U		0.000960	0.00293	1	09/28/2019 16:55	WG1353861
1,1-Dichloroethane	U		0.000675	0.00293	1	09/28/2019 16:55	WG1353861
1,2-Dichloroethane	U		0.000558	0.00293	1	09/28/2019 16:55	WG1353861
1,1-Dichloroethene	U		0.000587	0.00293	1	09/28/2019 16:55	WG1353861
cis-1,2-Dichloroethene	0.00187 J	J	0.000810	0.00293	1	09/28/2019 16:55	WG1353861
trans-1,2-Dichloroethene	U		0.00168	0.00587	1	09/28/2019 16:55	WG1353861
1,2-Dichloropropane	U		0.00149	0.00587	1	09/28/2019 16:55	WG1353861
1,1-Dichloropropene	U		0.000822	0.00293	1	09/28/2019 16:55	WG1353861
1,3-Dichloropropane	U		0.00205	0.00587	1	09/28/2019 16:55	WG1353861
cis-1,3-Dichloropropene	U		0.000796	0.00293	1	09/28/2019 16:55	WG1353861
trans-1,3-Dichloropropene	U		0.00180	0.00587	1	09/28/2019 16:55	WG1353861
trans-1,4-Dichloro-2-butene	U		0.00164	0.00587	1	09/28/2019 16:55	WG1353861
2,2-Dichloropropane	U		0.000931	0.00293	1	09/28/2019 16:55	WG1353861
Di-isopropyl ether	U		0.000411	0.00117	1	09/28/2019 16:55	WG1353861
Ethylbenzene	U		0.000622	0.00293	1	09/28/2019 16:55	WG1353861
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1	09/28/2019 16:55	WG1353861
2-Hexanone	U		0.0117	0.0293	1	09/28/2019 16:55	WG1353861
n-Hexane	0.0252		0.00124	0.00587	1	09/28/2019 16:55	WG1353861

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U			0.00710	0.0147	1	09/28/2019 16:55	WG1353861
Isopropylbenzene	U			0.00101	0.00293	1	09/28/2019 16:55	WG1353861
p-Isopropyltoluene	U			0.00273	0.00587	1	09/28/2019 16:55	WG1353861
2-Butanone (MEK)	0.0238	U	B J	0.0147	0.0293	1	09/28/2019 16:55	WG1353861
Methylene Chloride	0.00805	J	J	0.00779	0.0293	1	09/28/2019 16:55	WG1353861
4-Methyl-2-pentanone (MIBK)	U			0.0117	0.0293	1	09/28/2019 16:55	WG1353861
Methyl tert-butyl ether	0.000380	J	J	0.000346	0.00117	1	09/28/2019 16:55	WG1353861
Naphthalene	U			0.00366	0.0147	1	09/28/2019 16:55	WG1353861
n-Propylbenzene	U			0.00139	0.00587	1	09/28/2019 16:55	WG1353861
Styrene	U			0.00320	0.0147	1	09/28/2019 16:55	WG1353861
1,1,1,2-Tetrachloroethane	U			0.000587	0.00293	1	09/28/2019 16:55	WG1353861
1,1,2,2-Tetrachloroethane	U			0.000458	0.00293	1	09/28/2019 16:55	WG1353861
1,1,2-Trichlorotrifluoroethane	U			0.000792	0.00293	1	09/28/2019 16:55	WG1353861
Tetrachloroethene	U			0.000822	0.00293	1	09/28/2019 16:55	WG1353861
Toluene	0.0138			0.00147	0.00587	1	09/28/2019 16:55	WG1353861
1,2,3-Trichlorobenzene	U			0.000734	0.00293	1	09/28/2019 16:55	WG1353861
1,2,4-Trichlorobenzene	U			0.00566	0.0147	1	09/28/2019 16:55	WG1353861
1,1,1-Trichloroethane	U			0.000323	0.00293	1	09/28/2019 16:55	WG1353861
1,1,2-Trichloroethane	U			0.00104	0.00293	1	09/28/2019 16:55	WG1353861
Trichloroethene	U			0.000470	0.00117	1	09/28/2019 16:55	WG1353861
Trichlorofluoromethane	U			0.000587	0.00293	1	09/28/2019 16:55	WG1353861
1,2,3-Trichloropropane	U			0.00599	0.0147	1	09/28/2019 16:55	WG1353861
1,2,4-Trimethylbenzene	U			0.00136	0.00587	1	09/28/2019 16:55	WG1353861
1,2,3-Trimethylbenzene	U			0.00135	0.00587	1	09/28/2019 16:55	WG1353861
1,3,5-Trimethylbenzene	U			0.00127	0.00587	1	09/28/2019 16:55	WG1353861
Vinyl acetate	U			0.00413	0.0147	1	09/28/2019 16:55	WG1353861
Vinyl chloride	U			0.000802	0.00293	1	09/28/2019 16:55	WG1353861
Xylenes, Total	U			0.00561	0.00763	1	09/28/2019 16:55	WG1353861
(S) Toluene-d8	*107*				*75.0-131*		*09/28/2019 16:55*	WG1353861
(S) 4-Bromofluorobenzene	*97.0*				*67.0-138*		*09/28/2019 16:55*	WG1353861
(S) 1,2-Dichloroethane-d4	*94.2*				*70.0-130*		*09/28/2019 16:55*	WG1353861

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.4		1	09/27/2019 10:50	WG1352829

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.12 J	J	0.888	2.62	25	09/28/2019 19:51	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*09/28/2019 19:51*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0348	B	0.0144	0.0262	1	09/28/2019 17:17	WG1353861
Acrylonitrile	U		0.00199	0.0131	1	09/28/2019 17:17	WG1353861
Benzene	U		0.000419	0.00105	1	09/28/2019 17:17	WG1353861
Bromobenzene	U		0.00110	0.0131	1	09/28/2019 17:17	WG1353861
Bromodichloromethane	U		0.000826	0.00262	1	09/28/2019 17:17	WG1353861
Bromochloromethane	U		0.00118	0.00524	1	09/28/2019 17:17	WG1353861
Bromoform	U		0.00627	0.0262	1	09/28/2019 17:17	WG1353861
Bromomethane	U		0.00388	0.0131	1	09/28/2019 17:17	WG1353861
n-Butylbenzene	U		0.00402	0.0131	1	09/28/2019 17:17	WG1353861
sec-Butylbenzene	U		0.00265	0.0131	1	09/28/2019 17:17	WG1353861
tert-Butylbenzene	U		0.00162	0.00524	1	09/28/2019 17:17	WG1353861
Carbon disulfide	U		0.00425	0.0131	1	09/28/2019 17:17	WG1353861
Carbon tetrachloride	U		0.00113	0.00524	1	09/28/2019 17:17	WG1353861
Chlorobenzene	U		0.000600	0.00262	1	09/28/2019 17:17	WG1353861
Chlorodibromomethane	U		0.000471	0.00262	1	09/28/2019 17:17	WG1353861
Chloroethane	U		0.00113	0.00524	1	09/28/2019 17:17	WG1353861
Chloroform	0.000696 U	B J	0.000435	0.00262	1	09/28/2019 17:17	WG1353861
Chloromethane	U		0.00146	0.0131	1	09/28/2019 17:17	WG1353861
2-Chlorotoluene	U		0.000964	0.00262	1	09/28/2019 17:17	WG1353861
4-Chlorotoluene	U		0.00118	0.00524	1	09/28/2019 17:17	WG1353861
1,2-Dibromo-3-Chloropropane	U		0.00534	0.0262	1	09/28/2019 17:17	WG1353861
1,2-Dibromoethane	U		0.000550	0.00262	1	09/28/2019 17:17	WG1353861
Dibromomethane	U		0.00105	0.00524	1	09/28/2019 17:17	WG1353861
1,2-Dichlorobenzene	U		0.00152	0.00524	1	09/28/2019 17:17	WG1353861
1,3-Dichlorobenzene	U		0.00178	0.00524	1	09/28/2019 17:17	WG1353861
1,4-Dichlorobenzene	U		0.00206	0.00524	1	09/28/2019 17:17	WG1353861
Dichlorodifluoromethane	U		0.000857	0.00262	1	09/28/2019 17:17	WG1353861
1,1-Dichloroethane	U		0.000602	0.00262	1	09/28/2019 17:17	WG1353861
1,2-Dichloroethane	U		0.000498	0.00262	1	09/28/2019 17:17	WG1353861
1,1-Dichloroethene	U		0.000524	0.00262	1	09/28/2019 17:17	WG1353861
cis-1,2-Dichloroethene	0.00418		0.000723	0.00262	1	09/28/2019 17:17	WG1353861
trans-1,2-Dichloroethene	U		0.00150	0.00524	1	09/28/2019 17:17	WG1353861
1,2-Dichloropropane	U		0.00133	0.00524	1	09/28/2019 17:17	WG1353861
1,1-Dichloropropene	U		0.000733	0.00262	1	09/28/2019 17:17	WG1353861
1,3-Dichloropropane	U		0.00183	0.00524	1	09/28/2019 17:17	WG1353861
cis-1,3-Dichloropropene	U		0.000710	0.00262	1	09/28/2019 17:17	WG1353861
trans-1,3-Dichloropropene	U		0.00160	0.00524	1	09/28/2019 17:17	WG1353861
trans-1,4-Dichloro-2-butene	U		0.00147	0.00524	1	09/28/2019 17:17	WG1353861
2,2-Dichloropropane	U		0.000831	0.00262	1	09/28/2019 17:17	WG1353861
Di-isopropyl ether	U		0.000367	0.00105	1	09/28/2019 17:17	WG1353861
Ethylbenzene	U		0.000555	0.00262	1	09/28/2019 17:17	WG1353861
Hexachloro-1,3-butadiene	U		0.0133	0.0262	1	09/28/2019 17:17	WG1353861
2-Hexanone	U		0.0105	0.0262	1	09/28/2019 17:17	WG1353861
n-Hexane	0.0224		0.00111	0.00524	1	09/28/2019 17:17	WG1353861

JC 11/11/19

MW-190-30

Collected date/time: 09/19/19 12:02

SAMPLE RESULTS - 06

L1141868

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00634	0.0131	1	09/28/2019 17:17	WG1353861
Isopropylbenzene	U		0.000904	0.00262	1	09/28/2019 17:17	WG1353861
p-Isopropyltoluene	U		0.00244	0.00524	1	09/28/2019 17:17	WG1353861
2-Butanone (MEK)	0.0201 U	B J	0.0131	0.0262	1	09/28/2019 17:17	WG1353861
Methylene Chloride	0.00719 J	J	0.00696	0.0262	1	09/28/2019 17:17	WG1353861
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0262	1	09/28/2019 17:17	WG1353861
Methyl tert-butyl ether	U		0.000309	0.00105	1	09/28/2019 17:17	WG1353861
Naphthalene	U		0.00327	0.0131	1	09/28/2019 17:17	WG1353861
n-Propylbenzene	U		0.00124	0.00524	1	09/28/2019 17:17	WG1353861
Styrene	U		0.00286	0.0131	1	09/28/2019 17:17	WG1353861
1,1,1,2-Tetrachloroethane	U		0.000524	0.00262	1	09/28/2019 17:17	WG1353861
1,1,2,2-Tetrachloroethane	U		0.000409	0.00262	1	09/28/2019 17:17	WG1353861
1,1,2-Trichlorotrifluoroethane	U		0.000707	0.00262	1	09/28/2019 17:17	WG1353861
Tetrachloroethene	0.0585		0.000733	0.00262	1	09/28/2019 17:17	WG1353861
Toluene	0.0122		0.00131	0.00524	1	09/28/2019 17:17	WG1353861
1,2,3-Trichlorobenzene	U		0.000655	0.00262	1	09/28/2019 17:17	WG1353861
1,2,4-Trichlorobenzene	U		0.00505	0.0131	1	09/28/2019 17:17	WG1353861
1,1,1-Trichloroethane	U		0.000288	0.00262	1	09/28/2019 17:17	WG1353861
1,1,2-Trichloroethane	U		0.000925	0.00262	1	09/28/2019 17:17	WG1353861
Trichloroethene	0.0109		0.000419	0.00105	1	09/28/2019 17:17	WG1353861
Trichlorofluoromethane	U		0.000524	0.00262	1	09/28/2019 17:17	WG1353861
1,2,3-Trichloropropane	U		0.00534	0.0131	1	09/28/2019 17:17	WG1353861
1,2,4-Trimethylbenzene	U		0.00122	0.00524	1	09/28/2019 17:17	WG1353861
1,2,3-Trimethylbenzene	U		0.00120	0.00524	1	09/28/2019 17:17	WG1353861
1,3,5-Trimethylbenzene	U		0.00113	0.00524	1	09/28/2019 17:17	WG1353861
Vinyl acetate	U		0.00369	0.0131	1	09/28/2019 17:17	WG1353861
Vinyl chloride	U		0.000716	0.00262	1	09/28/2019 17:17	WG1353861
Xylenes, Total	U		0.00501	0.00681	1	09/28/2019 17:17	WG1353861
(S) Toluene-d8	*107*			*75.0-131*		*09/28/2019 17:17*	WG1353861
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*09/28/2019 17:17*	WG1353861
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*09/28/2019 17:17*	WG1353861

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.1		1	09/27/2019 10:50	WG1352829

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	1.17 J	J	0.901	2.66	25	09/28/2019 20:11	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*09/28/2019 20:11*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0352	B	0.0146	0.0266	1	09/28/2019 17:38	WG1353861
Acrylonitrile	U		0.00202	0.0133	1	09/28/2019 17:38	WG1353861
Benzene	U		0.000425	0.00106	1	09/28/2019 17:38	WG1353861
Bromobenzene	U		0.00112	0.0133	1	09/28/2019 17:38	WG1353861
Bromodichloromethane	U		0.000837	0.00266	1	09/28/2019 17:38	WG1353861
Bromochloromethane	U		0.00120	0.00531	1	09/28/2019 17:38	WG1353861
Bromoform	U		0.00635	0.0266	1	09/28/2019 17:38	WG1353861
Bromomethane	U		0.00393	0.0133	1	09/28/2019 17:38	WG1353861
n-Butylbenzene	U		0.00408	0.0133	1	09/28/2019 17:38	WG1353861
sec-Butylbenzene	U		0.00269	0.0133	1	09/28/2019 17:38	WG1353861
tert-Butylbenzene	U		0.00165	0.00531	1	09/28/2019 17:38	WG1353861
Carbon disulfide	U		0.00431	0.0133	1	09/28/2019 17:38	WG1353861
Carbon tetrachloride	U		0.00115	0.00531	1	09/28/2019 17:38	WG1353861
Chlorobenzene	U		0.000609	0.00266	1	09/28/2019 17:38	WG1353861
Chlorodibromomethane	U		0.000478	0.00266	1	09/28/2019 17:38	WG1353861
Chloroethane	U		0.00115	0.00531	1	09/28/2019 17:38	WG1353861
Chloroform	0.000695 U	B J	0.000441	0.00266	1	09/28/2019 17:38	WG1353861
Chloromethane	U		0.00148	0.0133	1	09/28/2019 17:38	WG1353861
2-Chlorotoluene	U		0.000977	0.00266	1	09/28/2019 17:38	WG1353861
4-Chlorotoluene	U		0.00120	0.00531	1	09/28/2019 17:38	WG1353861
1,2-Dibromo-3-Chloropropane	U		0.00542	0.0266	1	09/28/2019 17:38	WG1353861
1,2-Dibromoethane	U		0.000558	0.00266	1	09/28/2019 17:38	WG1353861
Dibromomethane	U		0.00106	0.00531	1	09/28/2019 17:38	WG1353861
1,2-Dichlorobenzene	U		0.00154	0.00531	1	09/28/2019 17:38	WG1353861
1,3-Dichlorobenzene	U		0.00181	0.00531	1	09/28/2019 17:38	WG1353861
1,4-Dichlorobenzene	U		0.00209	0.00531	1	09/28/2019 17:38	WG1353861
Dichlorodifluoromethane	U		0.000869	0.00266	1	09/28/2019 17:38	WG1353861
1,1-Dichloroethane	U		0.000611	0.00266	1	09/28/2019 17:38	WG1353861
1,2-Dichloroethane	U		0.000505	0.00266	1	09/28/2019 17:38	WG1353861
1,1-Dichloroethene	U		0.000531	0.00266	1	09/28/2019 17:38	WG1353861
cis-1,2-Dichloroethene	0.00442		0.000733	0.00266	1	09/28/2019 17:38	WG1353861
trans-1,2-Dichloroethene	U		0.00152	0.00531	1	09/28/2019 17:38	WG1353861
1,2-Dichloropropane	U		0.00135	0.00531	1	09/28/2019 17:38	WG1353861
1,1-Dichloropropene	U		0.000744	0.00266	1	09/28/2019 17:38	WG1353861
1,3-Dichloropropane	U		0.00186	0.00531	1	09/28/2019 17:38	WG1353861
cis-1,3-Dichloropropene	U		0.000720	0.00266	1	09/28/2019 17:38	WG1353861
trans-1,3-Dichloropropene	U		0.00163	0.00531	1	09/28/2019 17:38	WG1353861
trans-1,4-Dichloro-2-butene	U		0.00149	0.00531	1	09/28/2019 17:38	WG1353861
2,2-Dichloropropane	U		0.000842	0.00266	1	09/28/2019 17:38	WG1353861
Di-isopropyl ether	U		0.000372	0.00106	1	09/28/2019 17:38	WG1353861
Ethylbenzene	U		0.000563	0.00266	1	09/28/2019 17:38	WG1353861
Hexachloro-1,3-butadiene	U		0.0135	0.0266	1	09/28/2019 17:38	WG1353861
2-Hexanone	U		0.0106	0.0266	1	09/28/2019 17:38	WG1353861
n-Hexane	0.0211		0.00113	0.00531	1	09/28/2019 17:38	WG1353861

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00643	0.0133	1	09/28/2019 17:38	WG1353861
Isopropylbenzene	U		0.000917	0.00266	1	09/28/2019 17:38	WG1353861
p-Isopropyltoluene	U		0.00248	0.00531	1	09/28/2019 17:38	WG1353861
2-Butanone (MEK)	0.0213 U	B J	0.0133	0.0266	1	09/28/2019 17:38	WG1353861
Methylene Chloride	0.00739 J	J	0.00705	0.0266	1	09/28/2019 17:38	WG1353861
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0266	1	09/28/2019 17:38	WG1353861
Methyl tert-butyl ether	U		0.000313	0.00106	1	09/28/2019 17:38	WG1353861
Naphthalene	U		0.00331	0.0133	1	09/28/2019 17:38	WG1353861
n-Propylbenzene	U		0.00125	0.00531	1	09/28/2019 17:38	WG1353861
Styrene	U		0.00290	0.0133	1	09/28/2019 17:38	WG1353861
1,1,1,2-Tetrachloroethane	U		0.000531	0.00266	1	09/28/2019 17:38	WG1353861
1,1,2,2-Tetrachloroethane	U		0.000414	0.00266	1	09/28/2019 17:38	WG1353861
1,1,2-Trichlorotrifluoroethane	U		0.000717	0.00266	1	09/28/2019 17:38	WG1353861
Tetrachloroethene	0.0786		0.000744	0.00266	1	09/28/2019 17:38	WG1353861
Toluene	0.00948		0.00133	0.00531	1	09/28/2019 17:38	WG1353861
1,2,3-Trichlorobenzene	U		0.000664	0.00266	1	09/28/2019 17:38	WG1353861
1,2,4-Trichlorobenzene	U		0.00512	0.0133	1	09/28/2019 17:38	WG1353861
1,1,1-Trichloroethane	U		0.000292	0.00266	1	09/28/2019 17:38	WG1353861
1,1,2-Trichloroethane	U		0.000938	0.00266	1	09/28/2019 17:38	WG1353861
Trichloroethene	0.0108		0.000425	0.00106	1	09/28/2019 17:38	WG1353861
Trichlorofluoromethane	U		0.000531	0.00266	1	09/28/2019 17:38	WG1353861
1,2,3-Trichloropropane	U		0.00542	0.0133	1	09/28/2019 17:38	WG1353861
1,2,4-Trimethylbenzene	U		0.00123	0.00531	1	09/28/2019 17:38	WG1353861
1,2,3-Trimethylbenzene	U		0.00122	0.00531	1	09/28/2019 17:38	WG1353861
1,3,5-Trimethylbenzene	U		0.00115	0.00531	1	09/28/2019 17:38	WG1353861
Vinyl acetate	U		0.00374	0.0133	1	09/28/2019 17:38	WG1353861
Vinyl chloride	U		0.000726	0.00266	1	09/28/2019 17:38	WG1353861
Xylenes, Total	U		0.00508	0.00691	1	09/28/2019 17:38	WG1353861
(S) Toluene-d8	*106*			*75.0-131*		*09/28/2019 17:38*	WG1353861
(S) 4-Bromofluorobenzene	*97.9*			*67.0-138*		*09/28/2019 17:38*	WG1353861
(S) 1,2-Dichloroethane-d4	*95.2*			*70.0-130*		*09/28/2019 17:38*	WG1353861

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.1		1	09/27/2019 16:03	WG1352837

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		0.952	2.81	25	09/28/2019 20:32	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*96.0*			*77.0-120*		*09/28/2019 20:32*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0313	B	0.0154	0.0281	1	09/28/2019 18:00	WG1353861	
Acrylonitrile	U		0.00213	0.0140	1	09/28/2019 18:00	WG1353861	
Benzene	U		0.000449	0.00112	1	09/28/2019 18:00	WG1353861	
Bromobenzene	U		0.00118	0.0140	1	09/28/2019 18:00	WG1353861	
Bromodichloromethane	U		0.000885	0.00281	1	09/28/2019 18:00	WG1353861	
Bromochloromethane	U		0.00127	0.00561	1	09/28/2019 18:00	WG1353861	
Bromoform	U		0.00671	0.0281	1	09/28/2019 18:00	WG1353861	
Bromomethane	U		0.00415	0.0140	1	09/28/2019 18:00	WG1353861	
n-Butylbenzene	U		0.00431	0.0140	1	09/28/2019 18:00	WG1353861	
sec-Butylbenzene	U		0.00284	0.0140	1	09/28/2019 18:00	WG1353861	
tert-Butylbenzene	U		0.00174	0.00561	1	09/28/2019 18:00	WG1353861	
Carbon disulfide	U		0.00456	0.0140	1	09/28/2019 18:00	WG1353861	
Carbon tetrachloride	U		0.00121	0.00561	1	09/28/2019 18:00	WG1353861	
Chlorobenzene	U		0.000643	0.00281	1	09/28/2019 18:00	WG1353861	
Chlorodibromomethane	U		0.000505	0.00281	1	09/28/2019 18:00	WG1353861	
Chloroethane	U		0.00121	0.00561	1	09/28/2019 18:00	WG1353861	
Chloroform	0.000916 U	B J	0.000466	0.00281	1	09/28/2019 18:00	WG1353861	
Chloromethane	U		0.00156	0.0140	1	09/28/2019 18:00	WG1353861	
2-Chlorotoluene	U		0.00103	0.00281	1	09/28/2019 18:00	WG1353861	
4-Chlorotoluene	U		0.00127	0.00561	1	09/28/2019 18:00	WG1353861	
1,2-Dibromo-3-Chloropropane	U		0.00572	0.0281	1	09/28/2019 18:00	WG1353861	
1,2-Dibromoethane	U		0.000589	0.00281	1	09/28/2019 18:00	WG1353861	
Dibromomethane	U		0.00112	0.00561	1	09/28/2019 18:00	WG1353861	
1,2-Dichlorobenzene	U		0.00163	0.00561	1	09/28/2019 18:00	WG1353861	
1,3-Dichlorobenzene	U		0.00191	0.00561	1	09/28/2019 18:00	WG1353861	
1,4-Dichlorobenzene	U		0.00221	0.00561	1	09/28/2019 18:00	WG1353861	
Dichlorodifluoromethane	U		0.000918	0.00281	1	09/28/2019 18:00	WG1353861	
1,1-Dichloroethane	U		0.000645	0.00281	1	09/28/2019 18:00	WG1353861	
1,2-Dichloroethane	U		0.000533	0.00281	1	09/28/2019 18:00	WG1353861	
1,1-Dichloroethene	U		0.000561	0.00281	1	09/28/2019 18:00	WG1353861	
cis-1,2-Dichloroethene	U		0.000775	0.00281	1	09/28/2019 18:00	WG1353861	
trans-1,2-Dichloroethene	U		0.00161	0.00561	1	09/28/2019 18:00	WG1353861	
1,2-Dichloropropane	U		0.00143	0.00561	1	09/28/2019 18:00	WG1353861	
1,1-Dichloropropene	U		0.000786	0.00281	1	09/28/2019 18:00	WG1353861	
1,3-Dichloropropane	U		0.00196	0.00561	1	09/28/2019 18:00	WG1353861	
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	09/28/2019 18:00	WG1353861	
trans-1,3-Dichloropropene	U		0.00172	0.00561	1	09/28/2019 18:00	WG1353861	
trans-1,4-Dichloro-2-butene	U		0.00157	0.00561	1	09/28/2019 18:00	WG1353861	
2,2-Dichloropropane	U		0.000890	0.00281	1	09/28/2019 18:00	WG1353861	
Di-isopropyl ether	U		0.000393	0.00112	1	09/28/2019 18:00	WG1353861	
Ethylbenzene	U		0.000595	0.00281	1	09/28/2019 18:00	WG1353861	
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	09/28/2019 18:00	WG1353861	
2-Hexanone	U		0.0112	0.0281	1	09/28/2019 18:00	WG1353861	JC 11/11/19
n-Hexane	0.0192		0.00119	0.00561	1	09/28/2019 18:00	WG1353861	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00679	0.0140	1	09/28/2019 18:00	WG1353861
Isopropylbenzene	U		0.000969	0.00281	1	09/28/2019 18:00	WG1353861
p-Isopropyltoluene	U		0.00262	0.00561	1	09/28/2019 18:00	WG1353861
2-Butanone (MEK)	0.0157 U	B J	0.0140	0.0281	1	09/28/2019 18:00	WG1353861
Methylene Chloride	U		0.00745	0.0281	1	09/28/2019 18:00	WG1353861
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	09/28/2019 18:00	WG1353861
Methyl tert-butyl ether	U		0.000331	0.00112	1	09/28/2019 18:00	WG1353861
Naphthalene	U		0.00350	0.0140	1	09/28/2019 18:00	WG1353861
n-Propylbenzene	U		0.00132	0.00561	1	09/28/2019 18:00	WG1353861
Styrene	U		0.00306	0.0140	1	09/28/2019 18:00	WG1353861
1,1,1,2-Tetrachloroethane	U		0.000561	0.00281	1	09/28/2019 18:00	WG1353861
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	09/28/2019 18:00	WG1353861
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	09/28/2019 18:00	WG1353861
Tetrachloroethene	0.0108		0.000786	0.00281	1	09/28/2019 18:00	WG1353861
Toluene	0.0117		0.00140	0.00561	1	09/28/2019 18:00	WG1353861
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	09/28/2019 18:00	WG1353861
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	09/28/2019 18:00	WG1353861
1,1,1-Trichloroethane	U		0.000309	0.00281	1	09/28/2019 18:00	WG1353861
1,1,2-Trichloroethane	U		0.000991	0.00281	1	09/28/2019 18:00	WG1353861
Trichloroethene	0.00134		0.000449	0.00112	1	09/28/2019 18:00	WG1353861
Trichlorofluoromethane	U		0.000561	0.00281	1	09/28/2019 18:00	WG1353861
1,2,3-Trichloropropane	U		0.00572	0.0140	1	09/28/2019 18:00	WG1353861
1,2,4-Trimethylbenzene	U		0.00130	0.00561	1	09/28/2019 18:00	WG1353861
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	09/28/2019 18:00	WG1353861
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	09/28/2019 18:00	WG1353861
Vinyl acetate	U		0.00395	0.0140	1	09/28/2019 18:00	WG1353861
Vinyl chloride	U		0.000767	0.00281	1	09/28/2019 18:00	WG1353861
Xylenes, Total	U		0.00537	0.00730	1	09/28/2019 18:00	WG1353861
(S) Toluene-d8	*106*			*75.0-131*		*09/28/2019 18:00*	WG1353861
(S) 4-Bromofluorobenzene	*94.0*			*67.0-138*		*09/28/2019 18:00*	WG1353861
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*09/28/2019 18:00*	WG1353861

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.5		1	09/27/2019 16:03	WG1352837

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		0.970	2.86	25	09/28/2019 20:52	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*96.2*			*77.0-120*		*09/28/2019 20:52*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0282 U	B J	0.0157	0.0286	1	09/28/2019 18:21	WG1353861
Acrylonitrile	U		0.00217	0.0143	1	09/28/2019 18:21	WG1353861
Benzene	U		0.000457	0.00114	1	09/28/2019 18:21	WG1353861
Bromobenzene	U		0.00120	0.0143	1	09/28/2019 18:21	WG1353861
Bromodichloromethane	U		0.000901	0.00286	1	09/28/2019 18:21	WG1353861
Bromochloromethane	U		0.00129	0.00572	1	09/28/2019 18:21	WG1353861
Bromoform	U		0.00684	0.0286	1	09/28/2019 18:21	WG1353861
Bromomethane	U		0.00423	0.0143	1	09/28/2019 18:21	WG1353861
n-Butylbenzene	U		0.00439	0.0143	1	09/28/2019 18:21	WG1353861
sec-Butylbenzene	U		0.00289	0.0143	1	09/28/2019 18:21	WG1353861
tert-Butylbenzene	U		0.00177	0.00572	1	09/28/2019 18:21	WG1353861
Carbon disulfide	U		0.00464	0.0143	1	09/28/2019 18:21	WG1353861
Carbon tetrachloride	U		0.00123	0.00572	1	09/28/2019 18:21	WG1353861
Chlorobenzene	U		0.000655	0.00286	1	09/28/2019 18:21	WG1353861
Chlorodibromomethane	U		0.000515	0.00286	1	09/28/2019 18:21	WG1353861
Chloroethane	U		0.00123	0.00572	1	09/28/2019 18:21	WG1353861
Chloroform	0.000535 U	B J	0.000474	0.00286	1	09/28/2019 18:21	WG1353861
Chloromethane	U		0.00159	0.0143	1	09/28/2019 18:21	WG1353861
2-Chlorotoluene	U		0.00105	0.00286	1	09/28/2019 18:21	WG1353861
4-Chlorotoluene	U		0.00129	0.00572	1	09/28/2019 18:21	WG1353861
1,2-Dibromo-3-Chloropropane	U		0.00583	0.0286	1	09/28/2019 18:21	WG1353861
1,2-Dibromoethane	U		0.000600	0.00286	1	09/28/2019 18:21	WG1353861
Dibromomethane	U		0.00114	0.00572	1	09/28/2019 18:21	WG1353861
1,2-Dichlorobenzene	U		0.00166	0.00572	1	09/28/2019 18:21	WG1353861
1,3-Dichlorobenzene	U		0.00194	0.00572	1	09/28/2019 18:21	WG1353861
1,4-Dichlorobenzene	U		0.00225	0.00572	1	09/28/2019 18:21	WG1353861
Dichlorodifluoromethane	U		0.000935	0.00286	1	09/28/2019 18:21	WG1353861
1,1-Dichloroethane	U		0.000657	0.00286	1	09/28/2019 18:21	WG1353861
1,2-Dichloroethane	U		0.000543	0.00286	1	09/28/2019 18:21	WG1353861
1,1-Dichloroethene	U		0.000572	0.00286	1	09/28/2019 18:21	WG1353861
cis-1,2-Dichloroethene	U		0.000789	0.00286	1	09/28/2019 18:21	WG1353861
trans-1,2-Dichloroethene	U		0.00163	0.00572	1	09/28/2019 18:21	WG1353861
1,2-Dichloropropane	U		0.00145	0.00572	1	09/28/2019 18:21	WG1353861
1,1-Dichloropropene	U		0.000800	0.00286	1	09/28/2019 18:21	WG1353861
1,3-Dichloropropane	U		0.00200	0.00572	1	09/28/2019 18:21	WG1353861
cis-1,3-Dichloropropene	U		0.000775	0.00286	1	09/28/2019 18:21	WG1353861
trans-1,3-Dichloropropene	U		0.00175	0.00572	1	09/28/2019 18:21	WG1353861
trans-1,4-Dichloro-2-butene	U		0.00160	0.00572	1	09/28/2019 18:21	WG1353861
2,2-Dichloropropane	U		0.000907	0.00286	1	09/28/2019 18:21	WG1353861
Di-isopropyl ether	U		0.000400	0.00114	1	09/28/2019 18:21	WG1353861
Ethylbenzene	U		0.000606	0.00286	1	09/28/2019 18:21	WG1353861
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	09/28/2019 18:21	WG1353861
2-Hexanone	U		0.0114	0.0286	1	09/28/2019 18:21	WG1353861
n-Hexane	0.0119		0.00121	0.00572	1	09/28/2019 18:21	WG1353861

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Iodomethane	U		0.00692	0.0143	1	09/28/2019 18:21	WG1353861
Isopropylbenzene	U		0.000987	0.00286	1	09/28/2019 18:21	WG1353861
p-Isopropyltoluene	U		0.00266	0.00572	1	09/28/2019 18:21	WG1353861
2-Butanone (MEK)	0.0151 U	B J	0.0143	0.0286	1	09/28/2019 18:21	WG1353861
Methylene Chloride	U		0.00759	0.0286	1	09/28/2019 18:21	WG1353861
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	09/28/2019 18:21	WG1353861
Methyl tert-butyl ether	U		0.000337	0.00114	1	09/28/2019 18:21	WG1353861
Naphthalene	U		0.00357	0.0143	1	09/28/2019 18:21	WG1353861
n-Propylbenzene	U		0.00135	0.00572	1	09/28/2019 18:21	WG1353861
Styrene	U		0.00312	0.0143	1	09/28/2019 18:21	WG1353861
1,1,1,2-Tetrachloroethane	U		0.000572	0.00286	1	09/28/2019 18:21	WG1353861
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1	09/28/2019 18:21	WG1353861
1,1,2-Trichlorotrifluoroethane	U		0.000772	0.00286	1	09/28/2019 18:21	WG1353861
Tetrachloroethene	U		0.000800	0.00286	1	09/28/2019 18:21	WG1353861
Toluene	0.00557 J	J	0.00143	0.00572	1	09/28/2019 18:21	WG1353861
1,2,3-Trichlorobenzene	U		0.000715	0.00286	1	09/28/2019 18:21	WG1353861
1,2,4-Trichlorobenzene	U		0.00551	0.0143	1	09/28/2019 18:21	WG1353861
1,1,1-Trichloroethane	U		0.000314	0.00286	1	09/28/2019 18:21	WG1353861
1,1,2-Trichloroethane	U		0.00101	0.00286	1	09/28/2019 18:21	WG1353861
Trichloroethene	U		0.000457	0.00114	1	09/28/2019 18:21	WG1353861
Trichlorofluoromethane	U		0.000572	0.00286	1	09/28/2019 18:21	WG1353861
1,2,3-Trichloropropane	U		0.00583	0.0143	1	09/28/2019 18:21	WG1353861
1,2,4-Trimethylbenzene	U		0.00133	0.00572	1	09/28/2019 18:21	WG1353861
1,2,3-Trimethylbenzene	U		0.00131	0.00572	1	09/28/2019 18:21	WG1353861
1,3,5-Trimethylbenzene	U		0.00123	0.00572	1	09/28/2019 18:21	WG1353861
Vinyl acetate	U		0.00402	0.0143	1	09/28/2019 18:21	WG1353861
Vinyl chloride	U		0.000781	0.00286	1	09/28/2019 18:21	WG1353861
Xylenes, Total	U		0.00547	0.00743	1	09/28/2019 18:21	WG1353861
(S) Toluene-d8	*108*			*75.0-131*		*09/28/2019 18:21*	WG1353861
(S) 4-Bromofluorobenzene	*96.1*			*67.0-138*		*09/28/2019 18:21*	WG1353861
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*09/28/2019 18:21*	WG1353861

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.5		1	09/27/2019 16:03	WG1352837

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.79 J	J	0.888	2.62	25	09/28/2019 21:13	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-120*		*09/28/2019 21:13*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0337	B	0.0144	0.0262	1	09/28/2019 18:43	WG1353861
Acrylonitrile	U		0.00199	0.0131	1	09/28/2019 18:43	WG1353861
Benzene	0.000610 J	J	0.000419	0.00105	1	09/28/2019 18:43	WG1353861
Bromobenzene	U		0.00110	0.0131	1	09/28/2019 18:43	WG1353861
Bromodichloromethane	U		0.000825	0.00262	1	09/28/2019 18:43	WG1353861
Bromochloromethane	U		0.00118	0.00524	1	09/28/2019 18:43	WG1353861
Bromoform	U		0.00626	0.0262	1	09/28/2019 18:43	WG1353861
Bromomethane	U		0.00388	0.0131	1	09/28/2019 18:43	WG1353861
n-Butylbenzene	U		0.00402	0.0131	1	09/28/2019 18:43	WG1353861
sec-Butylbenzene	U		0.00265	0.0131	1	09/28/2019 18:43	WG1353861
tert-Butylbenzene	U		0.00162	0.00524	1	09/28/2019 18:43	WG1353861
Carbon disulfide	U		0.00425	0.0131	1	09/28/2019 18:43	WG1353861
Carbon tetrachloride	U		0.00113	0.00524	1	09/28/2019 18:43	WG1353861
Chlorobenzene	U		0.000600	0.00262	1	09/28/2019 18:43	WG1353861
Chlorodibromomethane	U		0.000471	0.00262	1	09/28/2019 18:43	WG1353861
Chloroethane	U		0.00113	0.00524	1	09/28/2019 18:43	WG1353861
Chloroform	0.000748 U	B J	0.000435	0.00262	1	09/28/2019 18:43	WG1353861
Chloromethane	U		0.00146	0.0131	1	09/28/2019 18:43	WG1353861
2-Chlorotoluene	U		0.000964	0.00262	1	09/28/2019 18:43	WG1353861
4-Chlorotoluene	U		0.00118	0.00524	1	09/28/2019 18:43	WG1353861
1,2-Dibromo-3-Chloropropane	U		0.00534	0.0262	1	09/28/2019 18:43	WG1353861
1,2-Dibromoethane	U		0.000550	0.00262	1	09/28/2019 18:43	WG1353861
Dibromomethane	U		0.00105	0.00524	1	09/28/2019 18:43	WG1353861
1,2-Dichlorobenzene	U		0.00152	0.00524	1	09/28/2019 18:43	WG1353861
1,3-Dichlorobenzene	U		0.00178	0.00524	1	09/28/2019 18:43	WG1353861
1,4-Dichlorobenzene	U		0.00206	0.00524	1	09/28/2019 18:43	WG1353861
Dichlorodifluoromethane	U		0.000857	0.00262	1	09/28/2019 18:43	WG1353861
1,1-Dichloroethane	U		0.000602	0.00262	1	09/28/2019 18:43	WG1353861
1,2-Dichloroethane	U		0.000498	0.00262	1	09/28/2019 18:43	WG1353861
1,1-Dichloroethene	U		0.000524	0.00262	1	09/28/2019 18:43	WG1353861
cis-1,2-Dichloroethene	U		0.000723	0.00262	1	09/28/2019 18:43	WG1353861
trans-1,2-Dichloroethene	U		0.00150	0.00524	1	09/28/2019 18:43	WG1353861
1,2-Dichloropropane	U		0.00133	0.00524	1	09/28/2019 18:43	WG1353861
1,1-Dichloropropene	U		0.000733	0.00262	1	09/28/2019 18:43	WG1353861
1,3-Dichloropropane	U		0.00183	0.00524	1	09/28/2019 18:43	WG1353861
cis-1,3-Dichloropropene	U		0.000710	0.00262	1	09/28/2019 18:43	WG1353861
trans-1,3-Dichloropropene	U		0.00160	0.00524	1	09/28/2019 18:43	WG1353861
trans-1,4-Dichloro-2-butene	U		0.00147	0.00524	1	09/28/2019 18:43	WG1353861
2,2-Dichloropropane	U		0.000831	0.00262	1	09/28/2019 18:43	WG1353861
Di-isopropyl ether	U		0.000367	0.00105	1	09/28/2019 18:43	WG1353861
Ethylbenzene	U		0.000555	0.00262	1	09/28/2019 18:43	WG1353861
Hexachloro-1,3-butadiene	U		0.0133	0.0262	1	09/28/2019 18:43	WG1353861
2-Hexanone	U		0.0105	0.0262	1	09/28/2019 18:43	WG1353861
n-Hexane	0.0233		0.00111	0.00524	1	09/28/2019 18:43	WG1353861

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U			0.00634	0.0131	1	09/28/2019 18:43	WG1353861
Isopropylbenzene	U			0.000904	0.00262	1	09/28/2019 18:43	WG1353861
p-Isopropyltoluene	U			0.00244	0.00524	1	09/28/2019 18:43	WG1353861
2-Butanone (MEK)	0.0208	U	B J	0.0131	0.0262	1	09/28/2019 18:43	WG1353861
Methylene Chloride	0.00833	J	J	0.00696	0.0262	1	09/28/2019 18:43	WG1353861
4-Methyl-2-pentanone (MIBK)	U			0.0105	0.0262	1	09/28/2019 18:43	WG1353861
Methyl tert-butyl ether	U			0.000309	0.00105	1	09/28/2019 18:43	WG1353861
Naphthalene	U			0.00327	0.0131	1	09/28/2019 18:43	WG1353861
n-Propylbenzene	U			0.00124	0.00524	1	09/28/2019 18:43	WG1353861
Styrene	U			0.00286	0.0131	1	09/28/2019 18:43	WG1353861
1,1,1,2-Tetrachloroethane	U			0.000524	0.00262	1	09/28/2019 18:43	WG1353861
1,1,2,2-Tetrachloroethane	U			0.000409	0.00262	1	09/28/2019 18:43	WG1353861
1,1,2-Trichlorotrifluoroethane	U			0.000707	0.00262	1	09/28/2019 18:43	WG1353861
Tetrachloroethene	0.00158	J	J	0.000733	0.00262	1	09/28/2019 18:43	WG1353861
Toluene	0.0175			0.00131	0.00524	1	09/28/2019 18:43	WG1353861
1,2,3-Trichlorobenzene	U			0.000655	0.00262	1	09/28/2019 18:43	WG1353861
1,2,4-Trichlorobenzene	U			0.00505	0.0131	1	09/28/2019 18:43	WG1353861
1,1,1-Trichloroethane	U			0.000288	0.00262	1	09/28/2019 18:43	WG1353861
1,1,2-Trichloroethane	U			0.000925	0.00262	1	09/28/2019 18:43	WG1353861
Trichloroethene	U			0.000419	0.00105	1	09/28/2019 18:43	WG1353861
Trichlorofluoromethane	U			0.000524	0.00262	1	09/28/2019 18:43	WG1353861
1,2,3-Trichloropropane	U			0.00534	0.0131	1	09/28/2019 18:43	WG1353861
1,2,4-Trimethylbenzene	U			0.00122	0.00524	1	09/28/2019 18:43	WG1353861
1,2,3-Trimethylbenzene	U			0.00120	0.00524	1	09/28/2019 18:43	WG1353861
1,3,5-Trimethylbenzene	U			0.00113	0.00524	1	09/28/2019 18:43	WG1353861
Vinyl acetate	U			0.00369	0.0131	1	09/28/2019 18:43	WG1353861
Vinyl chloride	U			0.000715	0.00262	1	09/28/2019 18:43	WG1353861
Xylenes, Total	U			0.00501	0.00681	1	09/28/2019 18:43	WG1353861
(S) Toluene-d8	*108*				*75.0-131*		*09/28/2019 18:43*	WG1353861
(S) 4-Bromofluorobenzene	*97.4*				*67.0-138*		*09/28/2019 18:43*	WG1353861
(S) 1,2-Dichloroethane-d4	*95.0*				*70.0-130*		*09/28/2019 18:43*	WG1353861

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.2		1	09/27/2019 16:03	WG1352837

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.44	J	0.920	2.71	25	09/28/2019 21:33	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*77.0-120*		*09/28/2019 21:33*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0295	B	0.0149	0.0271	1	09/28/2019 19:04	WG1353861
Acrylonitrile	U		0.00206	0.0136	1	09/28/2019 19:04	WG1353861
Benzene	0.000459 J	J	0.000434	0.00108	1	09/28/2019 19:04	WG1353861
Bromobenzene	U		0.00114	0.0136	1	09/28/2019 19:04	WG1353861
Bromodichloromethane	U		0.000855	0.00271	1	09/28/2019 19:04	WG1353861
Bromochloromethane	U		0.00123	0.00542	1	09/28/2019 19:04	WG1353861
Bromoform	U		0.00649	0.0271	1	09/28/2019 19:04	WG1353861
Bromomethane	U		0.00401	0.0136	1	09/28/2019 19:04	WG1353861
n-Butylbenzene	U		0.00416	0.0136	1	09/28/2019 19:04	WG1353861
sec-Butylbenzene	U		0.00274	0.0136	1	09/28/2019 19:04	WG1353861
tert-Butylbenzene	U		0.00168	0.00542	1	09/28/2019 19:04	WG1353861
Carbon disulfide	U		0.00440	0.0136	1	09/28/2019 19:04	WG1353861
Carbon tetrachloride	U		0.00117	0.00542	1	09/28/2019 19:04	WG1353861
Chlorobenzene	U		0.000621	0.00271	1	09/28/2019 19:04	WG1353861
Chlorodibromomethane	U		0.000488	0.00271	1	09/28/2019 19:04	WG1353861
Chloroethane	U		0.00117	0.00542	1	09/28/2019 19:04	WG1353861
Chloroform	0.000536 U	B J	0.000450	0.00271	1	09/28/2019 19:04	WG1353861
Chloromethane	U		0.00151	0.0136	1	09/28/2019 19:04	WG1353861
2-Chlorotoluene	U		0.000998	0.00271	1	09/28/2019 19:04	WG1353861
4-Chlorotoluene	U		0.00123	0.00542	1	09/28/2019 19:04	WG1353861
1,2-Dibromo-3-Chloropropane	U		0.00553	0.0271	1	09/28/2019 19:04	WG1353861
1,2-Dibromoethane	U		0.000569	0.00271	1	09/28/2019 19:04	WG1353861
Dibromomethane	U		0.00108	0.00542	1	09/28/2019 19:04	WG1353861
1,2-Dichlorobenzene	U		0.00157	0.00542	1	09/28/2019 19:04	WG1353861
1,3-Dichlorobenzene	U		0.00184	0.00542	1	09/28/2019 19:04	WG1353861
1,4-Dichlorobenzene	U		0.00214	0.00542	1	09/28/2019 19:04	WG1353861
Dichlorodifluoromethane	U		0.000887	0.00271	1	09/28/2019 19:04	WG1353861
1,1-Dichloroethane	U		0.000624	0.00271	1	09/28/2019 19:04	WG1353861
1,2-Dichloroethane	U		0.000515	0.00271	1	09/28/2019 19:04	WG1353861
1,1-Dichloroethene	U		0.000542	0.00271	1	09/28/2019 19:04	WG1353861
cis-1,2-Dichloroethene	0.0790		0.000748	0.00271	1	09/28/2019 19:04	WG1353861
trans-1,2-Dichloroethene	U		0.00155	0.00542	1	09/28/2019 19:04	WG1353861
1,2-Dichloropropane	U		0.00138	0.00542	1	09/28/2019 19:04	WG1353861
1,1-Dichloropropene	U		0.000759	0.00271	1	09/28/2019 19:04	WG1353861
1,3-Dichloropropane	U		0.00190	0.00542	1	09/28/2019 19:04	WG1353861
cis-1,3-Dichloropropene	U		0.000735	0.00271	1	09/28/2019 19:04	WG1353861
trans-1,3-Dichloropropene	U		0.00166	0.00542	1	09/28/2019 19:04	WG1353861
trans-1,4-Dichloro-2-butene	U		0.00152	0.00542	1	09/28/2019 19:04	WG1353861
2,2-Dichloropropane	U		0.000860	0.00271	1	09/28/2019 19:04	WG1353861
Di-isopropyl ether	U		0.000380	0.00108	1	09/28/2019 19:04	WG1353861
Ethylbenzene	U		0.000575	0.00271	1	09/28/2019 19:04	WG1353861
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	09/28/2019 19:04	WG1353861
2-Hexanone	U		0.0108	0.0271	1	09/28/2019 19:04	WG1353861
n-Hexane	0.0429		0.00115	0.00542	1	09/28/2019 19:04	WG1353861

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00656	0.0136	1	09/28/2019 19:04	WG1353861
Isopropylbenzene	U		0.000936	0.00271	1	09/28/2019 19:04	WG1353861
p-Isopropyltoluene	U		0.00253	0.00542	1	09/28/2019 19:04	WG1353861
2-Butanone (MEK)	0.0189	U B J	0.0136	0.0271	1	09/28/2019 19:04	WG1353861
Methylene Chloride	0.00853	J J	0.00720	0.0271	1	09/28/2019 19:04	WG1353861
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0271	1	09/28/2019 19:04	WG1353861
Methyl tert-butyl ether	U		0.000320	0.00108	1	09/28/2019 19:04	WG1353861
Naphthalene	U		0.00338	0.0136	1	09/28/2019 19:04	WG1353861
n-Propylbenzene	U		0.00128	0.00542	1	09/28/2019 19:04	WG1353861
Styrene	U		0.00296	0.0136	1	09/28/2019 19:04	WG1353861
1,1,1,2-Tetrachloroethane	U		0.000542	0.00271	1	09/28/2019 19:04	WG1353861
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	09/28/2019 19:04	WG1353861
1,1,2-Trichlorotrifluoroethane	U		0.000732	0.00271	1	09/28/2019 19:04	WG1353861
Tetrachloroethene	U		0.000759	0.00271	1	09/28/2019 19:04	WG1353861
Toluene	0.00877		0.00136	0.00542	1	09/28/2019 19:04	WG1353861
1,2,3-Trichlorobenzene	U		0.000678	0.00271	1	09/28/2019 19:04	WG1353861
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	09/28/2019 19:04	WG1353861
1,1,1-Trichloroethane	U		0.000298	0.00271	1	09/28/2019 19:04	WG1353861
1,1,2-Trichloroethane	U		0.000958	0.00271	1	09/28/2019 19:04	WG1353861
Trichloroethene	U		0.000434	0.00108	1	09/28/2019 19:04	WG1353861
Trichlorofluoromethane	0.00272		0.000542	0.00271	1	09/28/2019 19:04	WG1353861
1,2,3-Trichloropropane	U		0.00553	0.0136	1	09/28/2019 19:04	WG1353861
1,2,4-Trimethylbenzene	U		0.00126	0.00542	1	09/28/2019 19:04	WG1353861
1,2,3-Trimethylbenzene	U		0.00125	0.00542	1	09/28/2019 19:04	WG1353861
1,3,5-Trimethylbenzene	U		0.00117	0.00542	1	09/28/2019 19:04	WG1353861
Vinyl acetate	U		0.00382	0.0136	1	09/28/2019 19:04	WG1353861
Vinyl chloride	0.00676		0.000741	0.00271	1	09/28/2019 19:04	WG1353861
Xylenes, Total	U		0.00518	0.00705	1	09/28/2019 19:04	WG1353861
(S) Toluene-d8	*106*			*75.0-131*		*09/28/2019 19:04*	WG1353861
(S) 4-Bromofluorobenzene	*96.1*			*67.0-138*		*09/28/2019 19:04*	WG1353861
(S) 1,2-Dichloroethane-d4	*94.2*			*70.0-130*		*09/28/2019 19:04*	WG1353861

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.8		1	09/27/2019 16:03	WG1352837

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.39	J	J	0.924	2.72	25	09/28/2019 21:54	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*97.2*				*77.0-120*		*09/28/2019 21:54*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0266	U	B J	0.0149	0.0272	1	09/28/2019 19:26	WG1353861
Acrylonitrile	U			0.00207	0.0136	1	09/28/2019 19:26	WG1353861
Benzene	0.000462	J	J	0.000436	0.00109	1	09/28/2019 19:26	WG1353861
Bromobenzene	U			0.00114	0.0136	1	09/28/2019 19:26	WG1353861
Bromodichloromethane	U			0.000859	0.00272	1	09/28/2019 19:26	WG1353861
Bromochloromethane	U			0.00123	0.00545	1	09/28/2019 19:26	WG1353861
Bromoform	U			0.00652	0.0272	1	09/28/2019 19:26	WG1353861
Bromomethane	U			0.00403	0.0136	1	09/28/2019 19:26	WG1353861
n-Butylbenzene	U			0.00418	0.0136	1	09/28/2019 19:26	WG1353861
sec-Butylbenzene	U			0.00276	0.0136	1	09/28/2019 19:26	WG1353861
tert-Butylbenzene	U			0.00169	0.00545	1	09/28/2019 19:26	WG1353861
Carbon disulfide	U			0.00442	0.0136	1	09/28/2019 19:26	WG1353861
Carbon tetrachloride	U			0.00118	0.00545	1	09/28/2019 19:26	WG1353861
Chlorobenzene	U			0.000624	0.00272	1	09/28/2019 19:26	WG1353861
Chlorodibromomethane	U			0.000490	0.00272	1	09/28/2019 19:26	WG1353861
Chloroethane	U			0.00118	0.00545	1	09/28/2019 19:26	WG1353861
Chloroform	0.000608	U	B J	0.000452	0.00272	1	09/28/2019 19:26	WG1353861
Chloromethane	U			0.00151	0.0136	1	09/28/2019 19:26	WG1353861
2-Chlorotoluene	U			0.00100	0.00272	1	09/28/2019 19:26	WG1353861
4-Chlorotoluene	U			0.00123	0.00545	1	09/28/2019 19:26	WG1353861
1,2-Dibromo-3-Chloropropane	U			0.00556	0.0272	1	09/28/2019 19:26	WG1353861
1,2-Dibromoethane	U			0.000572	0.00272	1	09/28/2019 19:26	WG1353861
Dibromomethane	U			0.00109	0.00545	1	09/28/2019 19:26	WG1353861
1,2-Dichlorobenzene	U			0.00158	0.00545	1	09/28/2019 19:26	WG1353861
1,3-Dichlorobenzene	U			0.00185	0.00545	1	09/28/2019 19:26	WG1353861
1,4-Dichlorobenzene	U			0.00215	0.00545	1	09/28/2019 19:26	WG1353861
Dichlorodifluoromethane	U			0.000891	0.00272	1	09/28/2019 19:26	WG1353861
1,1-Dichloroethane	U			0.000627	0.00272	1	09/28/2019 19:26	WG1353861
1,2-Dichloroethane	U			0.000518	0.00272	1	09/28/2019 19:26	WG1353861
1,1-Dichloroethene	U			0.000545	0.00272	1	09/28/2019 19:26	WG1353861
cis-1,2-Dichloroethene	0.00884	J		0.000752	0.00272	1	09/28/2019 19:26	WG1353861
trans-1,2-Dichloroethene	U			0.00156	0.00545	1	09/28/2019 19:26	WG1353861
1,2-Dichloropropane	U			0.00138	0.00545	1	09/28/2019 19:26	WG1353861
1,1-Dichloropropene	U			0.000763	0.00272	1	09/28/2019 19:26	WG1353861
1,3-Dichloropropane	U			0.00191	0.00545	1	09/28/2019 19:26	WG1353861
cis-1,3-Dichloropropene	U			0.000739	0.00272	1	09/28/2019 19:26	WG1353861
trans-1,3-Dichloropropene	U			0.00167	0.00545	1	09/28/2019 19:26	WG1353861
trans-1,4-Dichloro-2-butene	U			0.00153	0.00545	1	09/28/2019 19:26	WG1353861
2,2-Dichloropropane	U			0.000864	0.00272	1	09/28/2019 19:26	WG1353861
Di-isopropyl ether	U			0.000381	0.00109	1	09/28/2019 19:26	WG1353861
Ethylbenzene	U			0.000578	0.00272	1	09/28/2019 19:26	WG1353861
Hexachloro-1,3-butadiene	U			0.0138	0.0272	1	09/28/2019 19:26	WG1353861
2-Hexanone	U			0.0109	0.0272	1	09/28/2019 19:26	WG1353861
n-Hexane	0.0107			0.00116	0.00545	1	09/28/2019 19:26	WG1353861

JC 11/11/19

MW-190-60

SAMPLE RESULTS - 12

Collected date/time: 09/19/19 13:12

L1141868

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U			0.00659	0.0136	1	09/28/2019 19:26	WG1353861
Isopropylbenzene	U			0.000940	0.00272	1	09/28/2019 19:26	WG1353861
p-Isopropyltoluene	U			0.00254	0.00545	1	09/28/2019 19:26	WG1353861
2-Butanone (MEK)	0.0149	U	B J	0.0136	0.0272	1	09/28/2019 19:26	WG1353861
Methylene Chloride	0.00805	J	J	0.00724	0.0272	1	09/28/2019 19:26	WG1353861
4-Methyl-2-pentanone (MIBK)	U			0.0109	0.0272	1	09/28/2019 19:26	WG1353861
Methyl tert-butyl ether	U			0.000321	0.00109	1	09/28/2019 19:26	WG1353861
Naphthalene	U			0.00340	0.0136	1	09/28/2019 19:26	WG1353861
n-Propylbenzene	U			0.00129	0.00545	1	09/28/2019 19:26	WG1353861
Styrene	U			0.00297	0.0136	1	09/28/2019 19:26	WG1353861
1,1,1,2-Tetrachloroethane	U			0.000545	0.00272	1	09/28/2019 19:26	WG1353861
1,1,2,2-Tetrachloroethane	U			0.000425	0.00272	1	09/28/2019 19:26	WG1353861
1,1,2-Trichlorotrifluoroethane	U			0.000736	0.00272	1	09/28/2019 19:26	WG1353861
Tetrachloroethene	0.00369	J		0.000763	0.00272	1	09/28/2019 19:26	WG1353861
Toluene	0.00549			0.00136	0.00545	1	09/28/2019 19:26	WG1353861
1,2,3-Trichlorobenzene	U			0.000681	0.00272	1	09/28/2019 19:26	WG1353861
1,2,4-Trichlorobenzene	U			0.00525	0.0136	1	09/28/2019 19:26	WG1353861
1,1,1-Trichloroethane	U			0.000300	0.00272	1	09/28/2019 19:26	WG1353861
1,1,2-Trichloroethane	U			0.000962	0.00272	1	09/28/2019 19:26	WG1353861
Trichloroethene	U			0.000436	0.00109	1	09/28/2019 19:26	WG1353861
Trichlorofluoromethane	U			0.000545	0.00272	1	09/28/2019 19:26	WG1353861
1,2,3-Trichloropropane	U			0.00556	0.0136	1	09/28/2019 19:26	WG1353861
1,2,4-Trimethylbenzene	U			0.00126	0.00545	1	09/28/2019 19:26	WG1353861
1,2,3-Trimethylbenzene	U			0.00125	0.00545	1	09/28/2019 19:26	WG1353861
1,3,5-Trimethylbenzene	U			0.00118	0.00545	1	09/28/2019 19:26	WG1353861
Vinyl acetate	U			0.00384	0.0136	1	09/28/2019 19:26	WG1353861
Vinyl chloride	0.0173			0.000744	0.00272	1	09/28/2019 19:26	WG1353861
Xylenes, Total	U			0.00521	0.00708	1	09/28/2019 19:26	WG1353861
(S) Toluene-d8	*107*				*75.0-131*		*09/28/2019 19:26*	WG1353861
(S) 4-Bromofluorobenzene	*94.8*				*67.0-138*		*09/28/2019 19:26*	WG1353861
(S) 1,2-Dichloroethane-d4	*95.4*				*70.0-130*		*09/28/2019 19:26*	WG1353861

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.6		1	09/27/2019 16:03	WG1352837

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.65	J	J	0.936	2.76	25	09/28/2019 22:15	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*96.0*				*77.0-120*		*09/28/2019 22:15*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0369		B	0.0151	0.0276	1	09/28/2019 19:48	WG1353861
Acrylonitrile	U			0.00210	0.0138	1	09/28/2019 19:48	WG1353861
Benzene	0.000683	J	J	0.000442	0.00110	1	09/28/2019 19:48	WG1353861
Bromobenzene	U			0.00116	0.0138	1	09/28/2019 19:48	WG1353861
Bromodichloromethane	U			0.000870	0.00276	1	09/28/2019 19:48	WG1353861
Bromochloromethane	U			0.00125	0.00552	1	09/28/2019 19:48	WG1353861
Bromoform	U			0.00660	0.0276	1	09/28/2019 19:48	WG1353861
Bromomethane	U			0.00409	0.0138	1	09/28/2019 19:48	WG1353861
n-Butylbenzene	U			0.00424	0.0138	1	09/28/2019 19:48	WG1353861
sec-Butylbenzene	U			0.00279	0.0138	1	09/28/2019 19:48	WG1353861
tert-Butylbenzene	U			0.00171	0.00552	1	09/28/2019 19:48	WG1353861
Carbon disulfide	U			0.00448	0.0138	1	09/28/2019 19:48	WG1353861
Carbon tetrachloride	U			0.00119	0.00552	1	09/28/2019 19:48	WG1353861
Chlorobenzene	U			0.000633	0.00276	1	09/28/2019 19:48	WG1353861
Chlorodibromomethane	U			0.000497	0.00276	1	09/28/2019 19:48	WG1353861
Chloroethane	U			0.00119	0.00552	1	09/28/2019 19:48	WG1353861
Chloroform	0.000788	U	B J	0.000458	0.00276	1	09/28/2019 19:48	WG1353861
Chloromethane	U			0.00153	0.0138	1	09/28/2019 19:48	WG1353861
2-Chlorotoluene	U			0.00102	0.00276	1	09/28/2019 19:48	WG1353861
4-Chlorotoluene	U			0.00125	0.00552	1	09/28/2019 19:48	WG1353861
1,2-Dibromo-3-Chloropropane	U			0.00563	0.0276	1	09/28/2019 19:48	WG1353861
1,2-Dibromoethane	U			0.000580	0.00276	1	09/28/2019 19:48	WG1353861
Dibromomethane	U			0.00110	0.00552	1	09/28/2019 19:48	WG1353861
1,2-Dichlorobenzene	U			0.00160	0.00552	1	09/28/2019 19:48	WG1353861
1,3-Dichlorobenzene	U			0.00188	0.00552	1	09/28/2019 19:48	WG1353861
1,4-Dichlorobenzene	U			0.00218	0.00552	1	09/28/2019 19:48	WG1353861
Dichlorodifluoromethane	U			0.000903	0.00276	1	09/28/2019 19:48	WG1353861
1,1-Dichloroethane	U			0.000635	0.00276	1	09/28/2019 19:48	WG1353861
1,2-Dichloroethane	U			0.000525	0.00276	1	09/28/2019 19:48	WG1353861
1,1-Dichloroethene	U			0.000552	0.00276	1	09/28/2019 19:48	WG1353861
cis-1,2-Dichloroethene	U			0.000762	0.00276	1	09/28/2019 19:48	WG1353861
trans-1,2-Dichloroethene	U			0.00158	0.00552	1	09/28/2019 19:48	WG1353861
1,2-Dichloropropane	U			0.00140	0.00552	1	09/28/2019 19:48	WG1353861
1,1-Dichloropropene	U			0.000773	0.00276	1	09/28/2019 19:48	WG1353861
1,3-Dichloropropane	U			0.00193	0.00552	1	09/28/2019 19:48	WG1353861
cis-1,3-Dichloropropene	U			0.000749	0.00276	1	09/28/2019 19:48	WG1353861
trans-1,3-Dichloropropene	U			0.00169	0.00552	1	09/28/2019 19:48	WG1353861
trans-1,4-Dichloro-2-butene	U			0.00155	0.00552	1	09/28/2019 19:48	WG1353861
2,2-Dichloropropane	U			0.000876	0.00276	1	09/28/2019 19:48	WG1353861
Di-isopropyl ether	U			0.000387	0.00110	1	09/28/2019 19:48	WG1353861
Ethylbenzene	0.000853	J	J	0.000585	0.00276	1	09/28/2019 19:48	WG1353861
Hexachloro-1,3-butadiene	U			0.0140	0.0276	1	09/28/2019 19:48	WG1353861
2-Hexanone	U			0.0110	0.0276	1	09/28/2019 19:48	WG1353861
n-Hexane	0.0267			0.00117	0.00552	1	09/28/2019 19:48	WG1353861

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00668	0.0138	1	09/28/2019 19:48	WG1353861
Isopropylbenzene	U		0.000953	0.00276	1	09/28/2019 19:48	WG1353861
p-Isopropyltoluene	U		0.00257	0.00552	1	09/28/2019 19:48	WG1353861
2-Butanone (MEK)	0.0163 U	B J	0.0138	0.0276	1	09/28/2019 19:48	WG1353861
Methylene Chloride	0.0104 J	J	0.00733	0.0276	1	09/28/2019 19:48	WG1353861
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0276	1	09/28/2019 19:48	WG1353861
Methyl tert-butyl ether	U		0.000326	0.00110	1	09/28/2019 19:48	WG1353861
Naphthalene	U		0.00345	0.0138	1	09/28/2019 19:48	WG1353861
n-Propylbenzene	U		0.00130	0.00552	1	09/28/2019 19:48	WG1353861
Styrene	U		0.00301	0.0138	1	09/28/2019 19:48	WG1353861
1,1,1,2-Tetrachloroethane	U		0.000552	0.00276	1	09/28/2019 19:48	WG1353861
1,1,2,2-Tetrachloroethane	U		0.000431	0.00276	1	09/28/2019 19:48	WG1353861
1,1,2-Trichlorotrifluoroethane	U		0.000745	0.00276	1	09/28/2019 19:48	WG1353861
Tetrachloroethene	U		0.000773	0.00276	1	09/28/2019 19:48	WG1353861
Toluene	0.0191		0.00138	0.00552	1	09/28/2019 19:48	WG1353861
1,2,3-Trichlorobenzene	U		0.000690	0.00276	1	09/28/2019 19:48	WG1353861
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	09/28/2019 19:48	WG1353861
1,1,1-Trichloroethane	U		0.000304	0.00276	1	09/28/2019 19:48	WG1353861
1,1,2-Trichloroethane	U		0.000975	0.00276	1	09/28/2019 19:48	WG1353861
Trichloroethene	U		0.000442	0.00110	1	09/28/2019 19:48	WG1353861
Trichlorofluoromethane	U		0.000552	0.00276	1	09/28/2019 19:48	WG1353861
1,2,3-Trichloropropane	U		0.00563	0.0138	1	09/28/2019 19:48	WG1353861
1,2,4-Trimethylbenzene	0.00140 J	J	0.00128	0.00552	1	09/28/2019 19:48	WG1353861
1,2,3-Trimethylbenzene	U		0.00127	0.00552	1	09/28/2019 19:48	WG1353861
1,3,5-Trimethylbenzene	U		0.00119	0.00552	1	09/28/2019 19:48	WG1353861
Vinyl acetate	U		0.00389	0.0138	1	09/28/2019 19:48	WG1353861
Vinyl chloride	U		0.000754	0.00276	1	09/28/2019 19:48	WG1353861
Xylenes, Total	U		0.00528	0.00718	1	09/28/2019 19:48	WG1353861
(S) Toluene-d8	*108*			*75.0-131*		*09/28/2019 19:48*	WG1353861
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*09/28/2019 19:48*	WG1353861
(S) 1,2-Dichloroethane-d4	*94.8*			*70.0-130*		*09/28/2019 19:48*	WG1353861

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.3		1	09/27/2019 16:03	WG1352837

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	0.943	J	0.939	2.77	25	09/28/2019 22:35	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*77.0-120*		*09/28/2019 22:35*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0402		0.0152	0.0277	1	09/28/2019 13:48	WG1353892
Acrylonitrile	U UJ	J0	0.00210	0.0138	1	09/28/2019 13:48	WG1353892
Benzene	U		0.000443	0.00111	1	09/28/2019 13:48	WG1353892
Bromobenzene	U		0.00116	0.0138	1	09/28/2019 13:48	WG1353892
Bromodichloromethane	U		0.000873	0.00277	1	09/28/2019 13:48	WG1353892
Bromochloromethane	U		0.00125	0.00554	1	09/28/2019 13:48	WG1353892
Bromoform	U		0.00662	0.0277	1	09/28/2019 13:48	WG1353892
Bromomethane	U		0.00410	0.0138	1	09/28/2019 13:48	WG1353892
n-Butylbenzene	U		0.00425	0.0138	1	09/28/2019 13:48	WG1353892
sec-Butylbenzene	U		0.00280	0.0138	1	09/28/2019 13:48	WG1353892
tert-Butylbenzene	U		0.00172	0.00554	1	09/28/2019 13:48	WG1353892
Carbon disulfide	U		0.00450	0.0138	1	09/28/2019 13:48	WG1353892
Carbon tetrachloride	U		0.00120	0.00554	1	09/28/2019 13:48	WG1353892
Chlorobenzene	U		0.000635	0.00277	1	09/28/2019 13:48	WG1353892
Chlorodibromomethane	U		0.000498	0.00277	1	09/28/2019 13:48	WG1353892
Chloroethane	U		0.00120	0.00554	1	09/28/2019 13:48	WG1353892
Chloroform	U		0.000460	0.00277	1	09/28/2019 13:48	WG1353892
Chloromethane	U		0.00154	0.0138	1	09/28/2019 13:48	WG1353892
2-Chlorotoluene	U		0.00102	0.00277	1	09/28/2019 13:48	WG1353892
4-Chlorotoluene	U		0.00125	0.00554	1	09/28/2019 13:48	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00565	0.0277	1	09/28/2019 13:48	WG1353892
1,2-Dibromoethane	U		0.000582	0.00277	1	09/28/2019 13:48	WG1353892
Dibromomethane	U		0.00111	0.00554	1	09/28/2019 13:48	WG1353892
1,2-Dichlorobenzene	U		0.00161	0.00554	1	09/28/2019 13:48	WG1353892
1,3-Dichlorobenzene	U		0.00188	0.00554	1	09/28/2019 13:48	WG1353892
1,4-Dichlorobenzene	U		0.00218	0.00554	1	09/28/2019 13:48	WG1353892
Dichlorodifluoromethane	U		0.000906	0.00277	1	09/28/2019 13:48	WG1353892
1,1-Dichloroethane	U		0.000637	0.00277	1	09/28/2019 13:48	WG1353892
1,2-Dichloroethane	U		0.000526	0.00277	1	09/28/2019 13:48	WG1353892
1,1-Dichloroethene	U		0.000554	0.00277	1	09/28/2019 13:48	WG1353892
cis-1,2-Dichloroethene	U		0.000764	0.00277	1	09/28/2019 13:48	WG1353892
trans-1,2-Dichloroethene	U		0.00158	0.00554	1	09/28/2019 13:48	WG1353892
1,2-Dichloropropane	U		0.00141	0.00554	1	09/28/2019 13:48	WG1353892
1,1-Dichloropropene	U		0.000775	0.00277	1	09/28/2019 13:48	WG1353892
1,3-Dichloropropane	U		0.00194	0.00554	1	09/28/2019 13:48	WG1353892
cis-1,3-Dichloropropene	U		0.000751	0.00277	1	09/28/2019 13:48	WG1353892
trans-1,3-Dichloropropene	U		0.00169	0.00554	1	09/28/2019 13:48	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00155	0.00554	1	09/28/2019 13:48	WG1353892
2,2-Dichloropropane	U		0.000878	0.00277	1	09/28/2019 13:48	WG1353892
Di-isopropyl ether	U		0.000388	0.00111	1	09/28/2019 13:48	WG1353892
Ethylbenzene	U		0.000587	0.00277	1	09/28/2019 13:48	WG1353892
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	09/28/2019 13:48	WG1353892
2-Hexanone	U		0.0111	0.0277	1	09/28/2019 13:48	WG1353892
n-Hexane	U		0.00117	0.00554	1	09/28/2019 13:48	WG1353892

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00670	0.0138	1	09/28/2019 13:48	WG1353892
Isopropylbenzene	U		0.000956	0.00277	1	09/28/2019 13:48	WG1353892
p-Isopropyltoluene	U		0.00258	0.00554	1	09/28/2019 13:48	WG1353892
2-Butanone (MEK)	U		0.0138	0.0277	1	09/28/2019 13:48	WG1353892
Methylene Chloride	0.0122 U	B J	0.00735	0.0277	1	09/28/2019 13:48	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	09/28/2019 13:48	WG1353892
Methyl tert-butyl ether	U		0.000327	0.00111	1	09/28/2019 13:48	WG1353892
Naphthalene	U		0.00346	0.0138	1	09/28/2019 13:48	WG1353892
n-Propylbenzene	U		0.00131	0.00554	1	09/28/2019 13:48	WG1353892
Styrene	U		0.00302	0.0138	1	09/28/2019 13:48	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000554	0.00277	1	09/28/2019 13:48	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	09/28/2019 13:48	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000748	0.00277	1	09/28/2019 13:48	WG1353892
Tetrachloroethene	U		0.000775	0.00277	1	09/28/2019 13:48	WG1353892
Toluene	0.00717		0.00138	0.00554	1	09/28/2019 13:48	WG1353892
1,2,3-Trichlorobenzene	U		0.000692	0.00277	1	09/28/2019 13:48	WG1353892
1,2,4-Trichlorobenzene	U		0.00534	0.0138	1	09/28/2019 13:48	WG1353892
1,1,1-Trichloroethane	U		0.000305	0.00277	1	09/28/2019 13:48	WG1353892
1,1,2-Trichloroethane	U		0.000978	0.00277	1	09/28/2019 13:48	WG1353892
Trichloroethene	U		0.000443	0.00111	1	09/28/2019 13:48	WG1353892
Trichlorofluoromethane	U		0.000554	0.00277	1	09/28/2019 13:48	WG1353892
1,2,3-Trichloropropane	U		0.00565	0.0138	1	09/28/2019 13:48	WG1353892
1,2,4-Trimethylbenzene	U		0.00128	0.00554	1	09/28/2019 13:48	WG1353892
1,2,3-Trimethylbenzene	U		0.00127	0.00554	1	09/28/2019 13:48	WG1353892
1,3,5-Trimethylbenzene	U		0.00120	0.00554	1	09/28/2019 13:48	WG1353892
Vinyl acetate	U		0.00390	0.0138	1	09/28/2019 13:48	WG1353892
Vinyl chloride	U		0.000757	0.00277	1	09/28/2019 13:48	WG1353892
Xylenes, Total	U		0.00529	0.00720	1	09/28/2019 13:48	WG1353892
(S) Toluene-d8	*109*			*75.0-131*		*09/28/2019 13:48*	WG1353892
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*09/28/2019 13:48*	WG1353892
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/28/2019 13:48*	WG1353892

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.5		1	09/27/2019 16:03	WG1352837

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		0.927	2.73	25	09/28/2019 22:56	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*94.4*			*77.0-120*		*09/28/2019 22:56*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0363		0.0150	0.0273	1	09/28/2019 14:09	WG1353892
Acrylonitrile	U UJ	J0	0.00208	0.0137	1	09/28/2019 14:09	WG1353892
Benzene	U		0.000437	0.00109	1	09/28/2019 14:09	WG1353892
Bromobenzene	U		0.00115	0.0137	1	09/28/2019 14:09	WG1353892
Bromodichloromethane	U		0.000862	0.00273	1	09/28/2019 14:09	WG1353892
Bromochloromethane	U		0.00124	0.00547	1	09/28/2019 14:09	WG1353892
Bromoform	U		0.00654	0.0273	1	09/28/2019 14:09	WG1353892
Bromomethane	U		0.00405	0.0137	1	09/28/2019 14:09	WG1353892
n-Butylbenzene	U		0.00420	0.0137	1	09/28/2019 14:09	WG1353892
sec-Butylbenzene	U		0.00277	0.0137	1	09/28/2019 14:09	WG1353892
tert-Butylbenzene	U		0.00169	0.00547	1	09/28/2019 14:09	WG1353892
Carbon disulfide	U		0.00444	0.0137	1	09/28/2019 14:09	WG1353892
Carbon tetrachloride	U		0.00118	0.00547	1	09/28/2019 14:09	WG1353892
Chlorobenzene	U		0.000626	0.00273	1	09/28/2019 14:09	WG1353892
Chlorodibromomethane	U		0.000492	0.00273	1	09/28/2019 14:09	WG1353892
Chloroethane	U		0.00118	0.00547	1	09/28/2019 14:09	WG1353892
Chloroform	U		0.000454	0.00273	1	09/28/2019 14:09	WG1353892
Chloromethane	U		0.00152	0.0137	1	09/28/2019 14:09	WG1353892
2-Chlorotoluene	U		0.00101	0.00273	1	09/28/2019 14:09	WG1353892
4-Chlorotoluene	U		0.00124	0.00547	1	09/28/2019 14:09	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00558	0.0273	1	09/28/2019 14:09	WG1353892
1,2-Dibromoethane	U		0.000574	0.00273	1	09/28/2019 14:09	WG1353892
Dibromomethane	U		0.00109	0.00547	1	09/28/2019 14:09	WG1353892
1,2-Dichlorobenzene	U		0.00159	0.00547	1	09/28/2019 14:09	WG1353892
1,3-Dichlorobenzene	U		0.00186	0.00547	1	09/28/2019 14:09	WG1353892
1,4-Dichlorobenzene	U		0.00215	0.00547	1	09/28/2019 14:09	WG1353892
Dichlorodifluoromethane	U		0.000894	0.00273	1	09/28/2019 14:09	WG1353892
1,1-Dichloroethane	U		0.000629	0.00273	1	09/28/2019 14:09	WG1353892
1,2-Dichloroethane	U		0.000519	0.00273	1	09/28/2019 14:09	WG1353892
1,1-Dichloroethene	U		0.000547	0.00273	1	09/28/2019 14:09	WG1353892
cis-1,2-Dichloroethene	U		0.000754	0.00273	1	09/28/2019 14:09	WG1353892
trans-1,2-Dichloroethene	U		0.00156	0.00547	1	09/28/2019 14:09	WG1353892
1,2-Dichloropropane	U		0.00139	0.00547	1	09/28/2019 14:09	WG1353892
1,1-Dichloropropene	U		0.000765	0.00273	1	09/28/2019 14:09	WG1353892
1,3-Dichloropropane	U		0.00191	0.00547	1	09/28/2019 14:09	WG1353892
cis-1,3-Dichloropropene	U		0.000741	0.00273	1	09/28/2019 14:09	WG1353892
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	09/28/2019 14:09	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	09/28/2019 14:09	WG1353892
2,2-Dichloropropane	U		0.000867	0.00273	1	09/28/2019 14:09	WG1353892
Di-isopropyl ether	U		0.000383	0.00109	1	09/28/2019 14:09	WG1353892
Ethylbenzene	U		0.000579	0.00273	1	09/28/2019 14:09	WG1353892
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/28/2019 14:09	WG1353892
2-Hexanone	U		0.0109	0.0273	1	09/28/2019 14:09	WG1353892
n-Hexane	0.00849		0.00116	0.00547	1	09/28/2019 14:09	WG1353892

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MW-190-75

Collected date/time: 09/19/19 14:40

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L1141868

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Iodomethane	U		0.00661	0.0137	1	09/28/2019 14:09	WG1353892
Isopropylbenzene	U		0.000944	0.00273	1	09/28/2019 14:09	WG1353892
p-Isopropyltoluene	U		0.00255	0.00547	1	09/28/2019 14:09	WG1353892
2-Butanone (MEK)	U		0.0137	0.0273	1	09/28/2019 14:09	WG1353892
Methylene Chloride	0.0117 U	B J	0.00726	0.0273	1	09/28/2019 14:09	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/28/2019 14:09	WG1353892
Methyl tert-butyl ether	U		0.000323	0.00109	1	09/28/2019 14:09	WG1353892
Naphthalene	U		0.00341	0.0137	1	09/28/2019 14:09	WG1353892
n-Propylbenzene	U		0.00129	0.00547	1	09/28/2019 14:09	WG1353892
Styrene	U		0.00298	0.0137	1	09/28/2019 14:09	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000547	0.00273	1	09/28/2019 14:09	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	09/28/2019 14:09	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000738	0.00273	1	09/28/2019 14:09	WG1353892
Tetrachloroethene	U		0.000765	0.00273	1	09/28/2019 14:09	WG1353892
Toluene	0.00803		0.00137	0.00547	1	09/28/2019 14:09	WG1353892
1,2,3-Trichlorobenzene	U		0.000683	0.00273	1	09/28/2019 14:09	WG1353892
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	09/28/2019 14:09	WG1353892
1,1,1-Trichloroethane	U		0.000301	0.00273	1	09/28/2019 14:09	WG1353892
1,1,2-Trichloroethane	U		0.000965	0.00273	1	09/28/2019 14:09	WG1353892
Trichloroethene	U		0.000437	0.00109	1	09/28/2019 14:09	WG1353892
Trichlorofluoromethane	U		0.000547	0.00273	1	09/28/2019 14:09	WG1353892
1,2,3-Trichloropropane	U		0.00558	0.0137	1	09/28/2019 14:09	WG1353892
1,2,4-Trimethylbenzene	U		0.00127	0.00547	1	09/28/2019 14:09	WG1353892
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	09/28/2019 14:09	WG1353892
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	09/28/2019 14:09	WG1353892
Vinyl acetate	U		0.00385	0.0137	1	09/28/2019 14:09	WG1353892
Vinyl chloride	U		0.000747	0.00273	1	09/28/2019 14:09	WG1353892
Xylenes, Total	U		0.00523	0.00711	1	09/28/2019 14:09	WG1353892
(S) Toluene-d8	*110*			*75.0-131*		*09/28/2019 14:09*	WG1353892
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*		*09/28/2019 14:09*	WG1353892
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/28/2019 14:09*	WG1353892

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.6		1	09/27/2019 16:03	WG1352837

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.49	J	0.926	2.73	25	09/28/2019 23:16	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*97.7*			*77.0-120*		*09/28/2019 23:16*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0540		0.0150	0.0273	1	09/28/2019 14:29	WG1353892
Acrylonitrile	U UJ	J0	0.00207	0.0136	1	09/28/2019 14:29	WG1353892
Benzene	U		0.000437	0.00109	1	09/28/2019 14:29	WG1353892
Bromobenzene	U		0.00115	0.0136	1	09/28/2019 14:29	WG1353892
Bromodichloromethane	U		0.000860	0.00273	1	09/28/2019 14:29	WG1353892
Bromochloromethane	U		0.00123	0.00546	1	09/28/2019 14:29	WG1353892
Bromoform	U		0.00653	0.0273	1	09/28/2019 14:29	WG1353892
Bromomethane	U		0.00404	0.0136	1	09/28/2019 14:29	WG1353892
n-Butylbenzene	U		0.00419	0.0136	1	09/28/2019 14:29	WG1353892
sec-Butylbenzene	U		0.00276	0.0136	1	09/28/2019 14:29	WG1353892
tert-Butylbenzene	U		0.00169	0.00546	1	09/28/2019 14:29	WG1353892
Carbon disulfide	U		0.00443	0.0136	1	09/28/2019 14:29	WG1353892
Carbon tetrachloride	U		0.00118	0.00546	1	09/28/2019 14:29	WG1353892
Chlorobenzene	U		0.000626	0.00273	1	09/28/2019 14:29	WG1353892
Chlorodibromomethane	U		0.000491	0.00273	1	09/28/2019 14:29	WG1353892
Chloroethane	U		0.00118	0.00546	1	09/28/2019 14:29	WG1353892
Chloroform	U		0.000453	0.00273	1	09/28/2019 14:29	WG1353892
Chloromethane	U		0.00152	0.0136	1	09/28/2019 14:29	WG1353892
2-Chlorotoluene	U		0.00100	0.00273	1	09/28/2019 14:29	WG1353892
4-Chlorotoluene	U		0.00123	0.00546	1	09/28/2019 14:29	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	09/28/2019 14:29	WG1353892
1,2-Dibromoethane	U		0.000573	0.00273	1	09/28/2019 14:29	WG1353892
Dibromomethane	U		0.00109	0.00546	1	09/28/2019 14:29	WG1353892
1,2-Dichlorobenzene	U		0.00158	0.00546	1	09/28/2019 14:29	WG1353892
1,3-Dichlorobenzene	U		0.00186	0.00546	1	09/28/2019 14:29	WG1353892
1,4-Dichlorobenzene	U		0.00215	0.00546	1	09/28/2019 14:29	WG1353892
Dichlorodifluoromethane	U		0.000893	0.00273	1	09/28/2019 14:29	WG1353892
1,1-Dichloroethane	U		0.000628	0.00273	1	09/28/2019 14:29	WG1353892
1,2-Dichloroethane	U		0.000519	0.00273	1	09/28/2019 14:29	WG1353892
1,1-Dichloroethene	U		0.000546	0.00273	1	09/28/2019 14:29	WG1353892
cis-1,2-Dichloroethene	U		0.000753	0.00273	1	09/28/2019 14:29	WG1353892
trans-1,2-Dichloroethene	U		0.00156	0.00546	1	09/28/2019 14:29	WG1353892
1,2-Dichloropropane	U		0.00139	0.00546	1	09/28/2019 14:29	WG1353892
1,1-Dichloropropene	U		0.000764	0.00273	1	09/28/2019 14:29	WG1353892
1,3-Dichloropropane	U		0.00191	0.00546	1	09/28/2019 14:29	WG1353892
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	09/28/2019 14:29	WG1353892
trans-1,3-Dichloropropene	U		0.00167	0.00546	1	09/28/2019 14:29	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00153	0.00546	1	09/28/2019 14:29	WG1353892
2,2-Dichloropropane	U		0.000866	0.00273	1	09/28/2019 14:29	WG1353892
Di-isopropyl ether	U		0.000382	0.00109	1	09/28/2019 14:29	WG1353892
Ethylbenzene	U		0.000579	0.00273	1	09/28/2019 14:29	WG1353892
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/28/2019 14:29	WG1353892
2-Hexanone	U		0.0109	0.0273	1	09/28/2019 14:29	WG1353892
n-Hexane	0.0119		0.00116	0.00546	1	09/28/2019 14:29	WG1353892

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MW-190-80

Collected date/time: 09/19/19 14:42

SAMPLE RESULTS - 16

L1141868

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00661	0.0136	1	09/28/2019 14:29	WG1353892
Isopropylbenzene	U		0.000942	0.00273	1	09/28/2019 14:29	WG1353892
p-Isopropyltoluene	U		0.00254	0.00546	1	09/28/2019 14:29	WG1353892
2-Butanone (MEK)	U		0.0136	0.0273	1	09/28/2019 14:29	WG1353892
Methylene Chloride	0.0139 U	B J	0.00725	0.0273	1	09/28/2019 14:29	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/28/2019 14:29	WG1353892
Methyl tert-butyl ether	U		0.000322	0.00109	1	09/28/2019 14:29	WG1353892
Naphthalene	U		0.00341	0.0136	1	09/28/2019 14:29	WG1353892
n-Propylbenzene	U		0.00129	0.00546	1	09/28/2019 14:29	WG1353892
Styrene	U		0.00298	0.0136	1	09/28/2019 14:29	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1	09/28/2019 14:29	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	09/28/2019 14:29	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000737	0.00273	1	09/28/2019 14:29	WG1353892
Tetrachloroethene	0.00132 J	J	0.000764	0.00273	1	09/28/2019 14:29	WG1353892
Toluene	0.0117		0.00136	0.00546	1	09/28/2019 14:29	WG1353892
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	09/28/2019 14:29	WG1353892
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	09/28/2019 14:29	WG1353892
1,1,1-Trichloroethane	U		0.000300	0.00273	1	09/28/2019 14:29	WG1353892
1,1,2-Trichloroethane	U		0.000964	0.00273	1	09/28/2019 14:29	WG1353892
Trichloroethene	U		0.000437	0.00109	1	09/28/2019 14:29	WG1353892
Trichlorofluoromethane	U		0.000546	0.00273	1	09/28/2019 14:29	WG1353892
1,2,3-Trichloropropane	U		0.00557	0.0136	1	09/28/2019 14:29	WG1353892
1,2,4-Trimethylbenzene	U		0.00127	0.00546	1	09/28/2019 14:29	WG1353892
1,2,3-Trimethylbenzene	U		0.00126	0.00546	1	09/28/2019 14:29	WG1353892
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	09/28/2019 14:29	WG1353892
Vinyl acetate	U		0.00384	0.0136	1	09/28/2019 14:29	WG1353892
Vinyl chloride	U		0.000746	0.00273	1	09/28/2019 14:29	WG1353892
Xylenes, Total	U		0.00522	0.00710	1	09/28/2019 14:29	WG1353892
(S) Toluene-d8	*110*			*75.0-131*		*09/28/2019 14:29*	WG1353892
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/28/2019 14:29*	WG1353892
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/28/2019 14:29*	WG1353892

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.0		1	09/27/2019 16:03	WG1352837

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.23	J	J	0.975	2.87	25	09/28/2019 23:37	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*97.5*				*77.0-120*		*09/28/2019 23:37*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0590			0.0157	0.0287	1	09/28/2019 14:50	WG1353892
Acrylonitrile	U	UJ	J0	0.00218	0.0144	1	09/28/2019 14:50	WG1353892
Benzene	U			0.000460	0.00115	1	09/28/2019 14:50	WG1353892
Bromobenzene	U			0.00121	0.0144	1	09/28/2019 14:50	WG1353892
Bromodichloromethane	U			0.000906	0.00287	1	09/28/2019 14:50	WG1353892
Bromochloromethane	U			0.00130	0.00575	1	09/28/2019 14:50	WG1353892
Bromoform	U			0.00687	0.0287	1	09/28/2019 14:50	WG1353892
Bromomethane	U			0.00425	0.0144	1	09/28/2019 14:50	WG1353892
n-Butylbenzene	U			0.00441	0.0144	1	09/28/2019 14:50	WG1353892
sec-Butylbenzene	U			0.00291	0.0144	1	09/28/2019 14:50	WG1353892
tert-Butylbenzene	U			0.00178	0.00575	1	09/28/2019 14:50	WG1353892
Carbon disulfide	U			0.00467	0.0144	1	09/28/2019 14:50	WG1353892
Carbon tetrachloride	U			0.00124	0.00575	1	09/28/2019 14:50	WG1353892
Chlorobenzene	U			0.000659	0.00287	1	09/28/2019 14:50	WG1353892
Chlorodibromomethane	U			0.000517	0.00287	1	09/28/2019 14:50	WG1353892
Chloroethane	U			0.00124	0.00575	1	09/28/2019 14:50	WG1353892
Chloroform	U			0.000477	0.00287	1	09/28/2019 14:50	WG1353892
Chloromethane	U			0.00160	0.0144	1	09/28/2019 14:50	WG1353892
2-Chlorotoluene	U			0.00106	0.00287	1	09/28/2019 14:50	WG1353892
4-Chlorotoluene	U			0.00130	0.00575	1	09/28/2019 14:50	WG1353892
1,2-Dibromo-3-Chloropropane	U			0.00586	0.0287	1	09/28/2019 14:50	WG1353892
1,2-Dibromoethane	U			0.000604	0.00287	1	09/28/2019 14:50	WG1353892
Dibromomethane	U			0.00115	0.00575	1	09/28/2019 14:50	WG1353892
1,2-Dichlorobenzene	U			0.00167	0.00575	1	09/28/2019 14:50	WG1353892
1,3-Dichlorobenzene	U			0.00195	0.00575	1	09/28/2019 14:50	WG1353892
1,4-Dichlorobenzene	U			0.00226	0.00575	1	09/28/2019 14:50	WG1353892
Dichlorodifluoromethane	U			0.000940	0.00287	1	09/28/2019 14:50	WG1353892
1,1-Dichloroethane	U			0.000661	0.00287	1	09/28/2019 14:50	WG1353892
1,2-Dichloroethane	U			0.000546	0.00287	1	09/28/2019 14:50	WG1353892
1,1-Dichloroethene	U			0.000575	0.00287	1	09/28/2019 14:50	WG1353892
cis-1,2-Dichloroethene	U			0.000793	0.00287	1	09/28/2019 14:50	WG1353892
trans-1,2-Dichloroethene	U			0.00164	0.00575	1	09/28/2019 14:50	WG1353892
1,2-Dichloropropane	U			0.00146	0.00575	1	09/28/2019 14:50	WG1353892
1,1-Dichloropropene	U			0.000805	0.00287	1	09/28/2019 14:50	WG1353892
1,3-Dichloropropane	U			0.00201	0.00575	1	09/28/2019 14:50	WG1353892
cis-1,3-Dichloropropene	U			0.000779	0.00287	1	09/28/2019 14:50	WG1353892
trans-1,3-Dichloropropene	U			0.00176	0.00575	1	09/28/2019 14:50	WG1353892
trans-1,4-Dichloro-2-butene	U			0.00161	0.00575	1	09/28/2019 14:50	WG1353892
2,2-Dichloropropane	U			0.000912	0.00287	1	09/28/2019 14:50	WG1353892
Di-isopropyl ether	U			0.000402	0.00115	1	09/28/2019 14:50	WG1353892
Ethylbenzene	U			0.000609	0.00287	1	09/28/2019 14:50	WG1353892
Hexachloro-1,3-butadiene	U			0.0146	0.0287	1	09/28/2019 14:50	WG1353892
2-Hexanone	U			0.0115	0.0287	1	09/28/2019 14:50	WG1353892
n-Hexane	U			0.00122	0.00575	1	09/28/2019 14:50	WG1353892

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00696	0.0144	1	09/28/2019 14:50	WG1353892
Isopropylbenzene	U		0.000992	0.00287	1	09/28/2019 14:50	WG1353892
p-Isopropyltoluene	U		0.00268	0.00575	1	09/28/2019 14:50	WG1353892
2-Butanone (MEK)	U		0.0144	0.0287	1	09/28/2019 14:50	WG1353892
Methylene Chloride	0.0138 U	B J	0.00763	0.0287	1	09/28/2019 14:50	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	09/28/2019 14:50	WG1353892
Methyl tert-butyl ether	U		0.000339	0.00115	1	09/28/2019 14:50	WG1353892
Naphthalene	U		0.00359	0.0144	1	09/28/2019 14:50	WG1353892
n-Propylbenzene	U		0.00136	0.00575	1	09/28/2019 14:50	WG1353892
Styrene	U		0.00314	0.0144	1	09/28/2019 14:50	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000575	0.00287	1	09/28/2019 14:50	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	09/28/2019 14:50	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000776	0.00287	1	09/28/2019 14:50	WG1353892
Tetrachloroethene	U		0.000805	0.00287	1	09/28/2019 14:50	WG1353892
Toluene	0.00843		0.00144	0.00575	1	09/28/2019 14:50	WG1353892
1,2,3-Trichlorobenzene	U		0.000719	0.00287	1	09/28/2019 14:50	WG1353892
1,2,4-Trichlorobenzene	U		0.00554	0.0144	1	09/28/2019 14:50	WG1353892
1,1,1-Trichloroethane	U		0.000316	0.00287	1	09/28/2019 14:50	WG1353892
1,1,2-Trichloroethane	U		0.00102	0.00287	1	09/28/2019 14:50	WG1353892
Trichloroethene	U		0.000460	0.00115	1	09/28/2019 14:50	WG1353892
Trichlorofluoromethane	U		0.000575	0.00287	1	09/28/2019 14:50	WG1353892
1,2,3-Trichloropropane	U		0.00586	0.0144	1	09/28/2019 14:50	WG1353892
1,2,4-Trimethylbenzene	U		0.00133	0.00575	1	09/28/2019 14:50	WG1353892
1,2,3-Trimethylbenzene	U		0.00132	0.00575	1	09/28/2019 14:50	WG1353892
1,3,5-Trimethylbenzene	U		0.00124	0.00575	1	09/28/2019 14:50	WG1353892
Vinyl acetate	U		0.00405	0.0144	1	09/28/2019 14:50	WG1353892
Vinyl chloride	U		0.000785	0.00287	1	09/28/2019 14:50	WG1353892
Xylenes, Total	U		0.00550	0.00747	1	09/28/2019 14:50	WG1353892
(S) Toluene-d8	*111*			*75.0-131*		*09/28/2019 14:50*	WG1353892
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/28/2019 14:50*	WG1353892
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/28/2019 14:50*	WG1353892

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.7		1	09/27/2019 13:49	WG1352841

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.02 J	J	1.01	2.99	25	09/28/2019 23:57	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*77.0-120*		*09/28/2019 23:57*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0578		0.0164	0.0299	1	09/28/2019 15:10	WG1353892
Acrylonitrile	U UJ	J0	0.00227	0.0149	1	09/28/2019 15:10	WG1353892
Benzene	0.000521 J	J	0.000478	0.00120	1	09/28/2019 15:10	WG1353892
Bromobenzene	U		0.00125	0.0149	1	09/28/2019 15:10	WG1353892
Bromodichloromethane	U		0.000942	0.00299	1	09/28/2019 15:10	WG1353892
Bromochloromethane	U		0.00135	0.00598	1	09/28/2019 15:10	WG1353892
Bromoform	U		0.00715	0.0299	1	09/28/2019 15:10	WG1353892
Bromomethane	U		0.00442	0.0149	1	09/28/2019 15:10	WG1353892
n-Butylbenzene	U		0.00459	0.0149	1	09/28/2019 15:10	WG1353892
sec-Butylbenzene	U		0.00302	0.0149	1	09/28/2019 15:10	WG1353892
tert-Butylbenzene	U		0.00185	0.00598	1	09/28/2019 15:10	WG1353892
Carbon disulfide	U		0.00485	0.0149	1	09/28/2019 15:10	WG1353892
Carbon tetrachloride	U		0.00129	0.00598	1	09/28/2019 15:10	WG1353892
Chlorobenzene	U		0.000685	0.00299	1	09/28/2019 15:10	WG1353892
Chlorodibromomethane	U		0.000538	0.00299	1	09/28/2019 15:10	WG1353892
Chloroethane	U		0.00129	0.00598	1	09/28/2019 15:10	WG1353892
Chloroform	U		0.000496	0.00299	1	09/28/2019 15:10	WG1353892
Chloromethane	U		0.00166	0.0149	1	09/28/2019 15:10	WG1353892
2-Chlorotoluene	U		0.00110	0.00299	1	09/28/2019 15:10	WG1353892
4-Chlorotoluene	U		0.00135	0.00598	1	09/28/2019 15:10	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00609	0.0299	1	09/28/2019 15:10	WG1353892
1,2-Dibromoethane	U		0.000627	0.00299	1	09/28/2019 15:10	WG1353892
Dibromomethane	U		0.00120	0.00598	1	09/28/2019 15:10	WG1353892
1,2-Dichlorobenzene	U		0.00173	0.00598	1	09/28/2019 15:10	WG1353892
1,3-Dichlorobenzene	U		0.00203	0.00598	1	09/28/2019 15:10	WG1353892
1,4-Dichlorobenzene	U		0.00235	0.00598	1	09/28/2019 15:10	WG1353892
Dichlorodifluoromethane	U		0.000978	0.00299	1	09/28/2019 15:10	WG1353892
1,1-Dichloroethane	U		0.000687	0.00299	1	09/28/2019 15:10	WG1353892
1,2-Dichloroethane	U		0.000568	0.00299	1	09/28/2019 15:10	WG1353892
1,1-Dichloroethene	U		0.000598	0.00299	1	09/28/2019 15:10	WG1353892
cis-1,2-Dichloroethene	U		0.000825	0.00299	1	09/28/2019 15:10	WG1353892
trans-1,2-Dichloroethene	U		0.00171	0.00598	1	09/28/2019 15:10	WG1353892
1,2-Dichloropropane	U		0.00152	0.00598	1	09/28/2019 15:10	WG1353892
1,1-Dichloropropene	U		0.000837	0.00299	1	09/28/2019 15:10	WG1353892
1,3-Dichloropropane	U		0.00209	0.00598	1	09/28/2019 15:10	WG1353892
cis-1,3-Dichloropropene	U		0.000810	0.00299	1	09/28/2019 15:10	WG1353892
trans-1,3-Dichloropropene	U		0.00183	0.00598	1	09/28/2019 15:10	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00167	0.00598	1	09/28/2019 15:10	WG1353892
2,2-Dichloropropane	U		0.000948	0.00299	1	09/28/2019 15:10	WG1353892
Di-isopropyl ether	U		0.000418	0.00120	1	09/28/2019 15:10	WG1353892
Ethylbenzene	U		0.000633	0.00299	1	09/28/2019 15:10	WG1353892
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	09/28/2019 15:10	WG1353892
2-Hexanone	U		0.0120	0.0299	1	09/28/2019 15:10	WG1353892
n-Hexane	0.0123		0.00127	0.00598	1	09/28/2019 15:10	WG1353892

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00723	0.0149	1	09/28/2019 15:10	WG1353892
Isopropylbenzene	U		0.00103	0.00299	1	09/28/2019 15:10	WG1353892
p-Isopropyltoluene	U		0.00278	0.00598	1	09/28/2019 15:10	WG1353892
2-Butanone (MEK)	U		0.0149	0.0299	1	09/28/2019 15:10	WG1353892
Methylene Chloride	0.0131 U	B J	0.00793	0.0299	1	09/28/2019 15:10	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1	09/28/2019 15:10	WG1353892
Methyl tert-butyl ether	U		0.000353	0.00120	1	09/28/2019 15:10	WG1353892
Naphthalene	U		0.00373	0.0149	1	09/28/2019 15:10	WG1353892
n-Propylbenzene	U		0.00141	0.00598	1	09/28/2019 15:10	WG1353892
Styrene	U		0.00326	0.0149	1	09/28/2019 15:10	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000598	0.00299	1	09/28/2019 15:10	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000466	0.00299	1	09/28/2019 15:10	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000807	0.00299	1	09/28/2019 15:10	WG1353892
Tetrachloroethene	U		0.000837	0.00299	1	09/28/2019 15:10	WG1353892
Toluene	0.00903		0.00149	0.00598	1	09/28/2019 15:10	WG1353892
1,2,3-Trichlorobenzene	U		0.000747	0.00299	1	09/28/2019 15:10	WG1353892
1,2,4-Trichlorobenzene	U		0.00576	0.0149	1	09/28/2019 15:10	WG1353892
1,1,1-Trichloroethane	U		0.000329	0.00299	1	09/28/2019 15:10	WG1353892
1,1,2-Trichloroethane	U		0.00106	0.00299	1	09/28/2019 15:10	WG1353892
Trichloroethene	U		0.000478	0.00120	1	09/28/2019 15:10	WG1353892
Trichlorofluoromethane	U		0.000598	0.00299	1	09/28/2019 15:10	WG1353892
1,2,3-Trichloropropane	U		0.00609	0.0149	1	09/28/2019 15:10	WG1353892
1,2,4-Trimethylbenzene	U		0.00139	0.00598	1	09/28/2019 15:10	WG1353892
1,2,3-Trimethylbenzene	U		0.00137	0.00598	1	09/28/2019 15:10	WG1353892
1,3,5-Trimethylbenzene	U		0.00129	0.00598	1	09/28/2019 15:10	WG1353892
Vinyl acetate	U		0.00421	0.0149	1	09/28/2019 15:10	WG1353892
Vinyl chloride	U		0.000816	0.00299	1	09/28/2019 15:10	WG1353892
Xylenes, Total	U		0.00571	0.00777	1	09/28/2019 15:10	WG1353892
(S) Toluene-d8	*111*			*75.0-131*		*09/28/2019 15:10*	WG1353892
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/28/2019 15:10*	WG1353892
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/28/2019 15:10*	WG1353892

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.5		1	09/27/2019 13:49	WG1352841

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.18	J	J	0.917	2.70	25	09/29/2019 00:18	WG1354050
(S) a,a,a-Trifluorotoluene(FID)	*97.3*				*77.0-120*		*09/29/2019 00:18*	WG1354050

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0356			0.0148	0.0270	1	09/28/2019 15:30	WG1353892
Acrylonitrile	U	UJ	J0	0.00205	0.0135	1	09/28/2019 15:30	WG1353892
Benzene	U			0.000432	0.00108	1	09/28/2019 15:30	WG1353892
Bromobenzene	U			0.00113	0.0135	1	09/28/2019 15:30	WG1353892
Bromodichloromethane	U			0.000852	0.00270	1	09/28/2019 15:30	WG1353892
Bromochloromethane	U			0.00122	0.00540	1	09/28/2019 15:30	WG1353892
Bromoform	U			0.00646	0.0270	1	09/28/2019 15:30	WG1353892
Bromomethane	U			0.00400	0.0135	1	09/28/2019 15:30	WG1353892
n-Butylbenzene	U			0.00415	0.0135	1	09/28/2019 15:30	WG1353892
sec-Butylbenzene	U			0.00273	0.0135	1	09/28/2019 15:30	WG1353892
tert-Butylbenzene	U			0.00168	0.00540	1	09/28/2019 15:30	WG1353892
Carbon disulfide	U			0.00439	0.0135	1	09/28/2019 15:30	WG1353892
Carbon tetrachloride	U			0.00117	0.00540	1	09/28/2019 15:30	WG1353892
Chlorobenzene	U			0.000619	0.00270	1	09/28/2019 15:30	WG1353892
Chlorodibromomethane	U			0.000486	0.00270	1	09/28/2019 15:30	WG1353892
Chloroethane	U			0.00117	0.00540	1	09/28/2019 15:30	WG1353892
Chloroform	U			0.000449	0.00270	1	09/28/2019 15:30	WG1353892
Chloromethane	U			0.00150	0.0135	1	09/28/2019 15:30	WG1353892
2-Chlorotoluene	U			0.000994	0.00270	1	09/28/2019 15:30	WG1353892
4-Chlorotoluene	U			0.00122	0.00540	1	09/28/2019 15:30	WG1353892
1,2-Dibromo-3-Chloropropane	U			0.00551	0.0270	1	09/28/2019 15:30	WG1353892
1,2-Dibromoethane	U			0.000567	0.00270	1	09/28/2019 15:30	WG1353892
Dibromomethane	U			0.00108	0.00540	1	09/28/2019 15:30	WG1353892
1,2-Dichlorobenzene	U			0.00157	0.00540	1	09/28/2019 15:30	WG1353892
1,3-Dichlorobenzene	U			0.00184	0.00540	1	09/28/2019 15:30	WG1353892
1,4-Dichlorobenzene	U			0.00213	0.00540	1	09/28/2019 15:30	WG1353892
Dichlorodifluoromethane	U			0.000884	0.00270	1	09/28/2019 15:30	WG1353892
1,1-Dichloroethane	U			0.000622	0.00270	1	09/28/2019 15:30	WG1353892
1,2-Dichloroethane	U			0.000513	0.00270	1	09/28/2019 15:30	WG1353892
1,1-Dichloroethene	U			0.000540	0.00270	1	09/28/2019 15:30	WG1353892
cis-1,2-Dichloroethene	0.0214	J		0.000746	0.00270	1	09/28/2019 15:30	WG1353892
trans-1,2-Dichloroethene	U			0.00155	0.00540	1	09/28/2019 15:30	WG1353892
1,2-Dichloropropane	U			0.00137	0.00540	1	09/28/2019 15:30	WG1353892
1,1-Dichloropropene	U			0.000757	0.00270	1	09/28/2019 15:30	WG1353892
1,3-Dichloropropane	U			0.00189	0.00540	1	09/28/2019 15:30	WG1353892
cis-1,3-Dichloropropene	U			0.000733	0.00270	1	09/28/2019 15:30	WG1353892
trans-1,3-Dichloropropene	U			0.00165	0.00540	1	09/28/2019 15:30	WG1353892
trans-1,4-Dichloro-2-butene	U			0.00151	0.00540	1	09/28/2019 15:30	WG1353892
2,2-Dichloropropane	U			0.000857	0.00270	1	09/28/2019 15:30	WG1353892
Di-isopropyl ether	U			0.000378	0.00108	1	09/28/2019 15:30	WG1353892
Ethylbenzene	U			0.000573	0.00270	1	09/28/2019 15:30	WG1353892
Hexachloro-1,3-butadiene	U			0.0137	0.0270	1	09/28/2019 15:30	WG1353892
2-Hexanone	U			0.0108	0.0270	1	09/28/2019 15:30	WG1353892
n-Hexane	0.0131			0.00115	0.00540	1	09/28/2019 15:30	WG1353892

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.00654	0.0135	1	09/28/2019 15:30	WG1353892
Isopropylbenzene	U		0.000933	0.00270	1	09/28/2019 15:30	WG1353892
p-Isopropyltoluene	U		0.00252	0.00540	1	09/28/2019 15:30	WG1353892
2-Butanone (MEK)	U		0.0135	0.0270	1	09/28/2019 15:30	WG1353892
Methylene Chloride	0.0108 U	B J	0.00718	0.0270	1	09/28/2019 15:30	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0270	1	09/28/2019 15:30	WG1353892
Methyl tert-butyl ether	U		0.000319	0.00108	1	09/28/2019 15:30	WG1353892
Naphthalene	U		0.00337	0.0135	1	09/28/2019 15:30	WG1353892
n-Propylbenzene	U		0.00128	0.00540	1	09/28/2019 15:30	WG1353892
Styrene	U		0.00295	0.0135	1	09/28/2019 15:30	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000540	0.00270	1	09/28/2019 15:30	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000422	0.00270	1	09/28/2019 15:30	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000730	0.00270	1	09/28/2019 15:30	WG1353892
Tetrachloroethene	0.00950 J		0.000757	0.00270	1	09/28/2019 15:30	WG1353892
Toluene	0.0129		0.00135	0.00540	1	09/28/2019 15:30	WG1353892
1,2,3-Trichlorobenzene	U		0.000676	0.00270	1	09/28/2019 15:30	WG1353892
1,2,4-Trichlorobenzene	U		0.00521	0.0135	1	09/28/2019 15:30	WG1353892
1,1,1-Trichloroethane	U		0.000297	0.00270	1	09/28/2019 15:30	WG1353892
1,1,2-Trichloroethane	U		0.000954	0.00270	1	09/28/2019 15:30	WG1353892
Trichloroethene	U		0.000432	0.00108	1	09/28/2019 15:30	WG1353892
Trichlorofluoromethane	U		0.000540	0.00270	1	09/28/2019 15:30	WG1353892
1,2,3-Trichloropropane	U		0.00551	0.0135	1	09/28/2019 15:30	WG1353892
1,2,4-Trimethylbenzene	U		0.00125	0.00540	1	09/28/2019 15:30	WG1353892
1,2,3-Trimethylbenzene	U		0.00124	0.00540	1	09/28/2019 15:30	WG1353892
1,3,5-Trimethylbenzene	U		0.00117	0.00540	1	09/28/2019 15:30	WG1353892
Vinyl acetate	U		0.00380	0.0135	1	09/28/2019 15:30	WG1353892
Vinyl chloride	0.0138		0.000738	0.00270	1	09/28/2019 15:30	WG1353892
Xylenes, Total	U		0.00517	0.00703	1	09/28/2019 15:30	WG1353892
(S) Toluene-d8	*112*			*75.0-131*		*09/28/2019 15:30*	WG1353892
(S) 4-Bromofluorobenzene	*99.0*			*67.0-138*		*09/28/2019 15:30*	WG1353892
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/28/2019 15:30*	WG1353892

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.2		1	09/27/2019 13:49	WG1352841

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.105		0.0159	0.0290	1	09/28/2019 15:51	WG1353892
Acrylonitrile	U UJ	J0	0.00220	0.0145	1	09/28/2019 15:51	WG1353892
Benzene	0.000468 J	J	0.000464	0.00116	1	09/28/2019 15:51	WG1353892
Bromobenzene	U		0.00122	0.0145	1	09/28/2019 15:51	WG1353892
Bromodichloromethane	U		0.000914	0.00290	1	09/28/2019 15:51	WG1353892
Bromochloromethane	U		0.00131	0.00580	1	09/28/2019 15:51	WG1353892
Bromoform	U		0.00694	0.0290	1	09/28/2019 15:51	WG1353892
Bromomethane	U		0.00429	0.0145	1	09/28/2019 15:51	WG1353892
n-Butylbenzene	U		0.00446	0.0145	1	09/28/2019 15:51	WG1353892
sec-Butylbenzene	U		0.00294	0.0145	1	09/28/2019 15:51	WG1353892
tert-Butylbenzene	U		0.00180	0.00580	1	09/28/2019 15:51	WG1353892
Carbon disulfide	U		0.00471	0.0145	1	09/28/2019 15:51	WG1353892
Carbon tetrachloride	U		0.00125	0.00580	1	09/28/2019 15:51	WG1353892
Chlorobenzene	U		0.000665	0.00290	1	09/28/2019 15:51	WG1353892
Chlorodibromomethane	U		0.000522	0.00290	1	09/28/2019 15:51	WG1353892
Chloroethane	U		0.00125	0.00580	1	09/28/2019 15:51	WG1353892
Chloroform	U		0.000482	0.00290	1	09/28/2019 15:51	WG1353892
Chloromethane	U		0.00161	0.0145	1	09/28/2019 15:51	WG1353892
2-Chlorotoluene	U		0.00107	0.00290	1	09/28/2019 15:51	WG1353892
4-Chlorotoluene	U		0.00131	0.00580	1	09/28/2019 15:51	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00592	0.0290	1	09/28/2019 15:51	WG1353892
1,2-Dibromoethane	U		0.000609	0.00290	1	09/28/2019 15:51	WG1353892
Dibromomethane	U		0.00116	0.00580	1	09/28/2019 15:51	WG1353892
1,2-Dichlorobenzene	U		0.00168	0.00580	1	09/28/2019 15:51	WG1353892
1,3-Dichlorobenzene	U		0.00197	0.00580	1	09/28/2019 15:51	WG1353892
1,4-Dichlorobenzene	U		0.00229	0.00580	1	09/28/2019 15:51	WG1353892
Dichlorodifluoromethane	U		0.000949	0.00290	1	09/28/2019 15:51	WG1353892
1,1-Dichloroethane	U		0.000667	0.00290	1	09/28/2019 15:51	WG1353892
1,2-Dichloroethane	U		0.000551	0.00290	1	09/28/2019 15:51	WG1353892
1,1-Dichloroethene	U		0.000580	0.00290	1	09/28/2019 15:51	WG1353892
cis-1,2-Dichloroethene	U		0.000801	0.00290	1	09/28/2019 15:51	WG1353892
trans-1,2-Dichloroethene	U		0.00166	0.00580	1	09/28/2019 15:51	WG1353892
1,2-Dichloropropane	U		0.00147	0.00580	1	09/28/2019 15:51	WG1353892
1,1-Dichloropropene	U		0.000812	0.00290	1	09/28/2019 15:51	WG1353892
1,3-Dichloropropane	U		0.00203	0.00580	1	09/28/2019 15:51	WG1353892
cis-1,3-Dichloropropene	U		0.000787	0.00290	1	09/28/2019 15:51	WG1353892
trans-1,3-Dichloropropene	U		0.00178	0.00580	1	09/28/2019 15:51	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00162	0.00580	1	09/28/2019 15:51	WG1353892
2,2-Dichloropropane	U		0.000920	0.00290	1	09/28/2019 15:51	WG1353892
Di-isopropyl ether	U		0.000406	0.00116	1	09/28/2019 15:51	WG1353892
Ethylbenzene	0.00182 J	J	0.000615	0.00290	1	09/28/2019 15:51	WG1353892
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	09/28/2019 15:51	WG1353892
2-Hexanone	U		0.0116	0.0290	1	09/28/2019 15:51	WG1353892
n-Hexane	0.0157		0.00123	0.00580	1	09/28/2019 15:51	WG1353892
Iodomethane	U		0.00702	0.0145	1	09/28/2019 15:51	WG1353892
Isopropylbenzene	U		0.00100	0.00290	1	09/28/2019 15:51	WG1353892
p-Isopropyltoluene	U		0.00270	0.00580	1	09/28/2019 15:51	WG1353892
2-Butanone (MEK)	U		0.0145	0.0290	1	09/28/2019 15:51	WG1353892
Methylene Chloride	0.0139 U	B J	0.00770	0.0290	1	09/28/2019 15:51	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	09/28/2019 15:51	WG1353892

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	09/28/2019 15:51	WG1353892
Naphthalene	U		0.00362	0.0145	1	09/28/2019 15:51	WG1353892
n-Propylbenzene	U		0.00137	0.00580	1	09/28/2019 15:51	WG1353892
Styrene	U		0.00317	0.0145	1	09/28/2019 15:51	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000580	0.00290	1	09/28/2019 15:51	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	09/28/2019 15:51	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000783	0.00290	1	09/28/2019 15:51	WG1353892
Tetrachloroethene	U		0.000812	0.00290	1	09/28/2019 15:51	WG1353892
Toluene	0.0154		0.00145	0.00580	1	09/28/2019 15:51	WG1353892
1,2,3-Trichlorobenzene	U		0.000725	0.00290	1	09/28/2019 15:51	WG1353892
1,2,4-Trichlorobenzene	U		0.00559	0.0145	1	09/28/2019 15:51	WG1353892
1,1,1-Trichloroethane	U		0.000319	0.00290	1	09/28/2019 15:51	WG1353892
1,1,2-Trichloroethane	U		0.00102	0.00290	1	09/28/2019 15:51	WG1353892
Trichloroethene	U		0.000464	0.00116	1	09/28/2019 15:51	WG1353892
Trichlorofluoromethane	U		0.000580	0.00290	1	09/28/2019 15:51	WG1353892
1,2,3-Trichloropropane	U		0.00592	0.0145	1	09/28/2019 15:51	WG1353892
1,2,4-Trimethylbenzene	0.00522 J	J	0.00135	0.00580	1	09/28/2019 15:51	WG1353892
1,2,3-Trimethylbenzene	0.00452	J	0.00133	0.00580	1	09/28/2019 15:51	WG1353892
1,3,5-Trimethylbenzene	0.00157 ↓	J	0.00125	0.00580	1	09/28/2019 15:51	WG1353892
Vinyl acetate	U		0.00408	0.0145	1	09/28/2019 15:51	WG1353892
Vinyl chloride	U		0.000792	0.00290	1	09/28/2019 15:51	WG1353892
Xylenes, Total	0.0102		0.00555	0.00754	1	09/28/2019 15:51	WG1353892
(S) Toluene-d8	*112*			*75.0-131*		*09/28/2019 15:51*	WG1353892
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/28/2019 15:51*	WG1353892
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/28/2019 15:51*	WG1353892

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	86.7		1	09/27/2019 13:49	WG1352841

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Acetone	0.0480		0.0158	0.0288	1	09/28/2019 16:12	WG1353892	
Acrylonitrile	U UJ	J0	0.00219	0.0144	1	09/28/2019 16:12	WG1353892	
Benzene	U		0.000461	0.00115	1	09/28/2019 16:12	WG1353892	
Bromobenzene	U		0.00121	0.0144	1	09/28/2019 16:12	WG1353892	
Bromodichloromethane	U		0.000909	0.00288	1	09/28/2019 16:12	WG1353892	
Bromochloromethane	U		0.00130	0.00576	1	09/28/2019 16:12	WG1353892	
Bromoform	U		0.00689	0.0288	1	09/28/2019 16:12	WG1353892	
Bromomethane	U		0.00427	0.0144	1	09/28/2019 16:12	WG1353892	
n-Butylbenzene	U		0.00443	0.0144	1	09/28/2019 16:12	WG1353892	
sec-Butylbenzene	U		0.00292	0.0144	1	09/28/2019 16:12	WG1353892	
tert-Butylbenzene	U		0.00179	0.00576	1	09/28/2019 16:12	WG1353892	
Carbon disulfide	U		0.00468	0.0144	1	09/28/2019 16:12	WG1353892	
Carbon tetrachloride	U		0.00125	0.00576	1	09/28/2019 16:12	WG1353892	
Chlorobenzene	U		0.000661	0.00288	1	09/28/2019 16:12	WG1353892	
Chlorodibromomethane	U		0.000519	0.00288	1	09/28/2019 16:12	WG1353892	
Chloroethane	U		0.00125	0.00576	1	09/28/2019 16:12	WG1353892	
Chloroform	U		0.000478	0.00288	1	09/28/2019 16:12	WG1353892	
Chloromethane	U		0.00160	0.0144	1	09/28/2019 16:12	WG1353892	
2-Chlorotoluene	U		0.00106	0.00288	1	09/28/2019 16:12	WG1353892	
4-Chlorotoluene	U		0.00130	0.00576	1	09/28/2019 16:12	WG1353892	
1,2-Dibromo-3-Chloropropane	U		0.00588	0.0288	1	09/28/2019 16:12	WG1353892	
1,2-Dibromoethane	U		0.000605	0.00288	1	09/28/2019 16:12	WG1353892	
Dibromomethane	U		0.00115	0.00576	1	09/28/2019 16:12	WG1353892	
1,2-Dichlorobenzene	U		0.00167	0.00576	1	09/28/2019 16:12	WG1353892	
1,3-Dichlorobenzene	U		0.00196	0.00576	1	09/28/2019 16:12	WG1353892	
1,4-Dichlorobenzene	U		0.00227	0.00576	1	09/28/2019 16:12	WG1353892	
Dichlorodifluoromethane	U		0.000943	0.00288	1	09/28/2019 16:12	WG1353892	
1,1-Dichloroethane	U		0.000663	0.00288	1	09/28/2019 16:12	WG1353892	
1,2-Dichloroethane	U		0.000548	0.00288	1	09/28/2019 16:12	WG1353892	
1,1-Dichloroethene	U		0.000576	0.00288	1	09/28/2019 16:12	WG1353892	
cis-1,2-Dichloroethene	U		0.000796	0.00288	1	09/28/2019 16:12	WG1353892	
trans-1,2-Dichloroethene	U		0.00165	0.00576	1	09/28/2019 16:12	WG1353892	
1,2-Dichloropropane	U		0.00146	0.00576	1	09/28/2019 16:12	WG1353892	
1,1-Dichloropropene	U		0.000807	0.00288	1	09/28/2019 16:12	WG1353892	
1,3-Dichloropropane	U		0.00202	0.00576	1	09/28/2019 16:12	WG1353892	
cis-1,3-Dichloropropene	U		0.000782	0.00288	1	09/28/2019 16:12	WG1353892	
trans-1,3-Dichloropropene	U		0.00176	0.00576	1	09/28/2019 16:12	WG1353892	
trans-1,4-Dichloro-2-butene	U		0.00161	0.00576	1	09/28/2019 16:12	WG1353892	
2,2-Dichloropropane	U		0.000914	0.00288	1	09/28/2019 16:12	WG1353892	
Di-isopropyl ether	U		0.000404	0.00115	1	09/28/2019 16:12	WG1353892	
Ethylbenzene	U		0.000611	0.00288	1	09/28/2019 16:12	WG1353892	
Hexachloro-1,3-butadiene	U		0.0146	0.0288	1	09/28/2019 16:12	WG1353892	
2-Hexanone	U		0.0115	0.0288	1	09/28/2019 16:12	WG1353892	
n-Hexane	0.0384		0.00122	0.00576	1	09/28/2019 16:12	WG1353892	
Iodomethane	U		0.00698	0.0144	1	09/28/2019 16:12	WG1353892	
Isopropylbenzene	U		0.000995	0.00288	1	09/28/2019 16:12	WG1353892	
p-Isopropyltoluene	U		0.00269	0.00576	1	09/28/2019 16:12	WG1353892	JC 11/11/19
2-Butanone (MEK)	U		0.0144	0.0288	1	09/28/2019 16:12	WG1353892	
Methylene Chloride	0.00934 U	B J	0.00766	0.0288	1	09/28/2019 16:12	WG1353892	
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0288	1	09/28/2019 16:12	WG1353892	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000340	0.00115	1	09/28/2019 16:12	WG1353892
Naphthalene	U		0.00360	0.0144	1	09/28/2019 16:12	WG1353892
n-Propylbenzene	U		0.00136	0.00576	1	09/28/2019 16:12	WG1353892
Styrene	U		0.00315	0.0144	1	09/28/2019 16:12	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000576	0.00288	1	09/28/2019 16:12	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000450	0.00288	1	09/28/2019 16:12	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000778	0.00288	1	09/28/2019 16:12	WG1353892
Tetrachloroethene	0.00247 J	J	0.000807	0.00288	1	09/28/2019 16:12	WG1353892
Toluene	0.00939		0.00144	0.00576	1	09/28/2019 16:12	WG1353892
1,2,3-Trichlorobenzene	U		0.000721	0.00288	1	09/28/2019 16:12	WG1353892
1,2,4-Trichlorobenzene	U		0.00556	0.0144	1	09/28/2019 16:12	WG1353892
1,1,1-Trichloroethane	U		0.000317	0.00288	1	09/28/2019 16:12	WG1353892
1,1,2-Trichloroethane	U		0.00102	0.00288	1	09/28/2019 16:12	WG1353892
Trichloroethene	U		0.000461	0.00115	1	09/28/2019 16:12	WG1353892
Trichlorofluoromethane	0.00658		0.000576	0.00288	1	09/28/2019 16:12	WG1353892
1,2,3-Trichloropropane	U		0.00588	0.0144	1	09/28/2019 16:12	WG1353892
1,2,4-Trimethylbenzene	U		0.00134	0.00576	1	09/28/2019 16:12	WG1353892
1,2,3-Trimethylbenzene	U		0.00133	0.00576	1	09/28/2019 16:12	WG1353892
1,3,5-Trimethylbenzene	U		0.00125	0.00576	1	09/28/2019 16:12	WG1353892
Vinyl acetate	U		0.00406	0.0144	1	09/28/2019 16:12	WG1353892
Vinyl chloride	U		0.000787	0.00288	1	09/28/2019 16:12	WG1353892
Xylenes, Total	U		0.00551	0.00749	1	09/28/2019 16:12	WG1353892
(S) Toluene-d8	*111*			*75.0-131*		*09/28/2019 16:12*	WG1353892
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/28/2019 16:12*	WG1353892
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/28/2019 16:12*	WG1353892

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.3		1	09/27/2019 13:49	WG1352841

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0449			0.0157	0.0286	1	09/28/2019 16:32	WG1353892
Acrylonitrile	U	UJ	J0	0.00218	0.0143	1	09/28/2019 16:32	WG1353892
Benzene	U			0.000458	0.00115	1	09/28/2019 16:32	WG1353892
Bromobenzene	U			0.00120	0.0143	1	09/28/2019 16:32	WG1353892
Bromodichloromethane	U			0.000903	0.00286	1	09/28/2019 16:32	WG1353892
Bromochloromethane	U			0.00129	0.00573	1	09/28/2019 16:32	WG1353892
Bromoform	U			0.00685	0.0286	1	09/28/2019 16:32	WG1353892
Bromomethane	U			0.00424	0.0143	1	09/28/2019 16:32	WG1353892
n-Butylbenzene	U			0.00440	0.0143	1	09/28/2019 16:32	WG1353892
sec-Butylbenzene	U			0.00290	0.0143	1	09/28/2019 16:32	WG1353892
tert-Butylbenzene	U			0.00178	0.00573	1	09/28/2019 16:32	WG1353892
Carbon disulfide	U			0.00465	0.0143	1	09/28/2019 16:32	WG1353892
Carbon tetrachloride	U			0.00124	0.00573	1	09/28/2019 16:32	WG1353892
Chlorobenzene	U			0.000656	0.00286	1	09/28/2019 16:32	WG1353892
Chlorodibromomethane	U			0.000515	0.00286	1	09/28/2019 16:32	WG1353892
Chloroethane	U			0.00124	0.00573	1	09/28/2019 16:32	WG1353892
Chloroform	U			0.000475	0.00286	1	09/28/2019 16:32	WG1353892
Chloromethane	U			0.00159	0.0143	1	09/28/2019 16:32	WG1353892
2-Chlorotoluene	U			0.00105	0.00286	1	09/28/2019 16:32	WG1353892
4-Chlorotoluene	U			0.00129	0.00573	1	09/28/2019 16:32	WG1353892
1,2-Dibromo-3-Chloropropane	U			0.00584	0.0286	1	09/28/2019 16:32	WG1353892
1,2-Dibromoethane	U			0.000601	0.00286	1	09/28/2019 16:32	WG1353892
Dibromomethane	U			0.00115	0.00573	1	09/28/2019 16:32	WG1353892
1,2-Dichlorobenzene	U			0.00166	0.00573	1	09/28/2019 16:32	WG1353892
1,3-Dichlorobenzene	U			0.00195	0.00573	1	09/28/2019 16:32	WG1353892
1,4-Dichlorobenzene	U			0.00226	0.00573	1	09/28/2019 16:32	WG1353892
Dichlorodifluoromethane	U			0.000937	0.00286	1	09/28/2019 16:32	WG1353892
1,1-Dichloroethane	U			0.000659	0.00286	1	09/28/2019 16:32	WG1353892
1,2-Dichloroethane	U			0.000544	0.00286	1	09/28/2019 16:32	WG1353892
1,1-Dichloroethene	U			0.000573	0.00286	1	09/28/2019 16:32	WG1353892
cis-1,2-Dichloroethene	U			0.000790	0.00286	1	09/28/2019 16:32	WG1353892
trans-1,2-Dichloroethene	U			0.00164	0.00573	1	09/28/2019 16:32	WG1353892
1,2-Dichloropropane	U			0.00145	0.00573	1	09/28/2019 16:32	WG1353892
1,1-Dichloropropene	U			0.000802	0.00286	1	09/28/2019 16:32	WG1353892
1,3-Dichloropropane	U			0.00200	0.00573	1	09/28/2019 16:32	WG1353892
cis-1,3-Dichloropropene	U			0.000777	0.00286	1	09/28/2019 16:32	WG1353892
trans-1,3-Dichloropropene	U			0.00175	0.00573	1	09/28/2019 16:32	WG1353892
trans-1,4-Dichloro-2-butene	U			0.00160	0.00573	1	09/28/2019 16:32	WG1353892
2,2-Dichloropropane	U			0.000908	0.00286	1	09/28/2019 16:32	WG1353892
Di-isopropyl ether	U			0.000401	0.00115	1	09/28/2019 16:32	WG1353892
Ethylbenzene	U			0.000607	0.00286	1	09/28/2019 16:32	WG1353892
Hexachloro-1,3-butadiene	U			0.0145	0.0286	1	09/28/2019 16:32	WG1353892
2-Hexanone	U			0.0115	0.0286	1	09/28/2019 16:32	WG1353892
n-Hexane	0.0376			0.00121	0.00573	1	09/28/2019 16:32	WG1353892
Iodomethane	U			0.00693	0.0143	1	09/28/2019 16:32	WG1353892
Isopropylbenzene	U			0.000989	0.00286	1	09/28/2019 16:32	WG1353892
p-Isopropyltoluene	U			0.00267	0.00573	1	09/28/2019 16:32	WG1353892
2-Butanone (MEK)	U			0.0143	0.0286	1	09/28/2019 16:32	WG1353892
Methylene Chloride	0.00832	U	B J	0.00761	0.0286	1	09/28/2019 16:32	WG1353892
4-Methyl-2-pentanone (MIBK)	U			0.0115	0.0286	1	09/28/2019 16:32	WG1353892

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000338	0.00115	1	09/28/2019 16:32	WG1353892
Naphthalene	U		0.00357	0.0143	1	09/28/2019 16:32	WG1353892
n-Propylbenzene	U		0.00135	0.00573	1	09/28/2019 16:32	WG1353892
Styrene	U		0.00313	0.0143	1	09/28/2019 16:32	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000573	0.00286	1	09/28/2019 16:32	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000447	0.00286	1	09/28/2019 16:32	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000773	0.00286	1	09/28/2019 16:32	WG1353892
Tetrachloroethene	U		0.000802	0.00286	1	09/28/2019 16:32	WG1353892
Toluene	0.0147		0.00143	0.00573	1	09/28/2019 16:32	WG1353892
1,2,3-Trichlorobenzene	U		0.000716	0.00286	1	09/28/2019 16:32	WG1353892
1,2,4-Trichlorobenzene	U		0.00552	0.0143	1	09/28/2019 16:32	WG1353892
1,1,1-Trichloroethane	U		0.000315	0.00286	1	09/28/2019 16:32	WG1353892
1,1,2-Trichloroethane	U		0.00101	0.00286	1	09/28/2019 16:32	WG1353892
Trichloroethene	U		0.000458	0.00115	1	09/28/2019 16:32	WG1353892
Trichlorofluoromethane	0.00647		0.000573	0.00286	1	09/28/2019 16:32	WG1353892
1,2,3-Trichloropropane	U		0.00584	0.0143	1	09/28/2019 16:32	WG1353892
1,2,4-Trimethylbenzene	U		0.00133	0.00573	1	09/28/2019 16:32	WG1353892
1,2,3-Trimethylbenzene	U		0.00132	0.00573	1	09/28/2019 16:32	WG1353892
1,3,5-Trimethylbenzene	U		0.00124	0.00573	1	09/28/2019 16:32	WG1353892
Vinyl acetate	U		0.00403	0.0143	1	09/28/2019 16:32	WG1353892
Vinyl chloride	U		0.000782	0.00286	1	09/28/2019 16:32	WG1353892
Xylenes, Total	U		0.00548	0.00745	1	09/28/2019 16:32	WG1353892
(S) Toluene-d8	*110*			*75.0-131*		*09/28/2019 16:32*	WG1353892
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/28/2019 16:32*	WG1353892
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/28/2019 16:32*	WG1353892

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	80.7		1	09/27/2019 13:49	WG1352841

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0170	0.0310	1	09/28/2019 16:53	WG1353892
Acrylonitrile	U	UJ J0	0.00235	0.0155	1	09/28/2019 16:53	WG1353892
Benzene	U		0.000495	0.00124	1	09/28/2019 16:53	WG1353892
Bromobenzene	U		0.00130	0.0155	1	09/28/2019 16:53	WG1353892
Bromodichloromethane	U		0.000976	0.00310	1	09/28/2019 16:53	WG1353892
Bromochloromethane	U		0.00140	0.00619	1	09/28/2019 16:53	WG1353892
Bromoform	U		0.00741	0.0310	1	09/28/2019 16:53	WG1353892
Bromomethane	U		0.00458	0.0155	1	09/28/2019 16:53	WG1353892
n-Butylbenzene	U		0.00476	0.0155	1	09/28/2019 16:53	WG1353892
sec-Butylbenzene	U		0.00313	0.0155	1	09/28/2019 16:53	WG1353892
tert-Butylbenzene	U		0.00192	0.00619	1	09/28/2019 16:53	WG1353892
Carbon disulfide	U		0.00503	0.0155	1	09/28/2019 16:53	WG1353892
Carbon tetrachloride	U		0.00134	0.00619	1	09/28/2019 16:53	WG1353892
Chlorobenzene	U		0.000710	0.00310	1	09/28/2019 16:53	WG1353892
Chlorodibromomethane	U		0.000557	0.00310	1	09/28/2019 16:53	WG1353892
Chloroethane	U		0.00134	0.00619	1	09/28/2019 16:53	WG1353892
Chloroform	U		0.000514	0.00310	1	09/28/2019 16:53	WG1353892
Chloromethane	U		0.00172	0.0155	1	09/28/2019 16:53	WG1353892
2-Chlorotoluene	U		0.00114	0.00310	1	09/28/2019 16:53	WG1353892
4-Chlorotoluene	U		0.00140	0.00619	1	09/28/2019 16:53	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00632	0.0310	1	09/28/2019 16:53	WG1353892
1,2-Dibromoethane	U		0.000650	0.00310	1	09/28/2019 16:53	WG1353892
Dibromomethane	U		0.00124	0.00619	1	09/28/2019 16:53	WG1353892
1,2-Dichlorobenzene	U		0.00180	0.00619	1	09/28/2019 16:53	WG1353892
1,3-Dichlorobenzene	U		0.00211	0.00619	1	09/28/2019 16:53	WG1353892
1,4-Dichlorobenzene	U		0.00244	0.00619	1	09/28/2019 16:53	WG1353892
Dichlorodifluoromethane	U		0.00101	0.00310	1	09/28/2019 16:53	WG1353892
1,1-Dichloroethane	U		0.000712	0.00310	1	09/28/2019 16:53	WG1353892
1,2-Dichloroethane	U		0.000588	0.00310	1	09/28/2019 16:53	WG1353892
1,1-Dichloroethene	U		0.000619	0.00310	1	09/28/2019 16:53	WG1353892
cis-1,2-Dichloroethene	U		0.000855	0.00310	1	09/28/2019 16:53	WG1353892
trans-1,2-Dichloroethene	U		0.00177	0.00619	1	09/28/2019 16:53	WG1353892
1,2-Dichloropropane	U		0.00157	0.00619	1	09/28/2019 16:53	WG1353892
1,1-Dichloropropene	U		0.000867	0.00310	1	09/28/2019 16:53	WG1353892
1,3-Dichloropropane	U		0.00217	0.00619	1	09/28/2019 16:53	WG1353892
cis-1,3-Dichloropropene	U		0.000840	0.00310	1	09/28/2019 16:53	WG1353892
trans-1,3-Dichloropropene	U		0.00190	0.00619	1	09/28/2019 16:53	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00173	0.00619	1	09/28/2019 16:53	WG1353892
2,2-Dichloropropane	U		0.000982	0.00310	1	09/28/2019 16:53	WG1353892
Di-isopropyl ether	U		0.000434	0.00124	1	09/28/2019 16:53	WG1353892
Ethylbenzene	U		0.000656	0.00310	1	09/28/2019 16:53	WG1353892
Hexachloro-1,3-butadiene	U		0.0157	0.0310	1	09/28/2019 16:53	WG1353892
2-Hexanone	U		0.0124	0.0310	1	09/28/2019 16:53	WG1353892
n-Hexane	0.0117		0.00131	0.00619	1	09/28/2019 16:53	WG1353892
Iodomethane	U		0.00749	0.0155	1	09/28/2019 16:53	WG1353892
Isopropylbenzene	U		0.00107	0.00310	1	09/28/2019 16:53	WG1353892
p-Isopropyltoluene	U		0.00289	0.00619	1	09/28/2019 16:53	WG1353892
2-Butanone (MEK)	U		0.0155	0.0310	1	09/28/2019 16:53	WG1353892
Methylene Chloride	0.00945	U B J	0.00822	0.0310	1	09/28/2019 16:53	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0310	1	09/28/2019 16:53	WG1353892

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000365	0.00124	1	09/28/2019 16:53	WG1353892
Naphthalene	U		0.00386	0.0155	1	09/28/2019 16:53	WG1353892
n-Propylbenzene	U		0.00146	0.00619	1	09/28/2019 16:53	WG1353892
Styrene	U		0.00338	0.0155	1	09/28/2019 16:53	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000619	0.00310	1	09/28/2019 16:53	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000483	0.00310	1	09/28/2019 16:53	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000836	0.00310	1	09/28/2019 16:53	WG1353892
Tetrachloroethene	U		0.000867	0.00310	1	09/28/2019 16:53	WG1353892
Toluene	0.00844		0.00155	0.00619	1	09/28/2019 16:53	WG1353892
1,2,3-Trichlorobenzene	U		0.000774	0.00310	1	09/28/2019 16:53	WG1353892
1,2,4-Trichlorobenzene	U		0.00597	0.0155	1	09/28/2019 16:53	WG1353892
1,1,1-Trichloroethane	U		0.000341	0.00310	1	09/28/2019 16:53	WG1353892
1,1,2-Trichloroethane	U		0.00109	0.00310	1	09/28/2019 16:53	WG1353892
Trichloroethene	U		0.000495	0.00124	1	09/28/2019 16:53	WG1353892
Trichlorofluoromethane	0.00313		0.000619	0.00310	1	09/28/2019 16:53	WG1353892
1,2,3-Trichloropropane	U		0.00632	0.0155	1	09/28/2019 16:53	WG1353892
1,2,4-Trimethylbenzene	U		0.00144	0.00619	1	09/28/2019 16:53	WG1353892
1,2,3-Trimethylbenzene	U		0.00142	0.00619	1	09/28/2019 16:53	WG1353892
1,3,5-Trimethylbenzene	U		0.00134	0.00619	1	09/28/2019 16:53	WG1353892
Vinyl acetate	U		0.00436	0.0155	1	09/28/2019 16:53	WG1353892
Vinyl chloride	U		0.000846	0.00310	1	09/28/2019 16:53	WG1353892
Xylenes, Total	U		0.00592	0.00805	1	09/28/2019 16:53	WG1353892
(S) Toluene-d8	*111*			*75.0-131*		*09/28/2019 16:53*	WG1353892
(S) 4-Bromofluorobenzene	*96.0*			*67.0-138*		*09/28/2019 16:53*	WG1353892
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/28/2019 16:53*	WG1353892

JC 11/11/19

MW-319-30

Collected date/time: 09/18/19 11:15

SAMPLE RESULTS - 05

L1141869

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.5		1	09/27/2019 13:49	WG1352841

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0418		0.0157	0.0286	1	09/28/2019 17:13	WG1353892
Acrylonitrile	U UJ	J0	0.00217	0.0143	1	09/28/2019 17:13	WG1353892
Benzene	U		0.000457	0.00114	1	09/28/2019 17:13	WG1353892
Bromobenzene	U		0.00120	0.0143	1	09/28/2019 17:13	WG1353892
Bromodichloromethane	U		0.000901	0.00286	1	09/28/2019 17:13	WG1353892
Bromochloromethane	U		0.00129	0.00571	1	09/28/2019 17:13	WG1353892
Bromoform	U		0.00683	0.0286	1	09/28/2019 17:13	WG1353892
Bromomethane	U		0.00423	0.0143	1	09/28/2019 17:13	WG1353892
n-Butylbenzene	U		0.00439	0.0143	1	09/28/2019 17:13	WG1353892
sec-Butylbenzene	U		0.00289	0.0143	1	09/28/2019 17:13	WG1353892
tert-Butylbenzene	U		0.00177	0.00571	1	09/28/2019 17:13	WG1353892
Carbon disulfide	U		0.00464	0.0143	1	09/28/2019 17:13	WG1353892
Carbon tetrachloride	U		0.00123	0.00571	1	09/28/2019 17:13	WG1353892
Chlorobenzene	U		0.000655	0.00286	1	09/28/2019 17:13	WG1353892
Chlorodibromomethane	U		0.000514	0.00286	1	09/28/2019 17:13	WG1353892
Chloroethane	U		0.00123	0.00571	1	09/28/2019 17:13	WG1353892
Chloroform	U		0.000474	0.00286	1	09/28/2019 17:13	WG1353892
Chloromethane	U		0.00159	0.0143	1	09/28/2019 17:13	WG1353892
2-Chlorotoluene	U		0.00105	0.00286	1	09/28/2019 17:13	WG1353892
4-Chlorotoluene	U		0.00129	0.00571	1	09/28/2019 17:13	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00583	0.0286	1	09/28/2019 17:13	WG1353892
1,2-Dibromoethane	U		0.000600	0.00286	1	09/28/2019 17:13	WG1353892
Dibromomethane	U		0.00114	0.00571	1	09/28/2019 17:13	WG1353892
1,2-Dichlorobenzene	U		0.00166	0.00571	1	09/28/2019 17:13	WG1353892
1,3-Dichlorobenzene	U		0.00194	0.00571	1	09/28/2019 17:13	WG1353892
1,4-Dichlorobenzene	U		0.00225	0.00571	1	09/28/2019 17:13	WG1353892
Dichlorodifluoromethane	U		0.000935	0.00286	1	09/28/2019 17:13	WG1353892
1,1-Dichloroethane	U		0.000657	0.00286	1	09/28/2019 17:13	WG1353892
1,2-Dichloroethane	U		0.000543	0.00286	1	09/28/2019 17:13	WG1353892
1,1-Dichloroethene	U		0.000571	0.00286	1	09/28/2019 17:13	WG1353892
cis-1,2-Dichloroethene	U		0.000789	0.00286	1	09/28/2019 17:13	WG1353892
trans-1,2-Dichloroethene	U		0.00163	0.00571	1	09/28/2019 17:13	WG1353892
1,2-Dichloropropane	U		0.00145	0.00571	1	09/28/2019 17:13	WG1353892
1,1-Dichloropropene	U		0.000800	0.00286	1	09/28/2019 17:13	WG1353892
1,3-Dichloropropane	U		0.00200	0.00571	1	09/28/2019 17:13	WG1353892
cis-1,3-Dichloropropene	U		0.000775	0.00286	1	09/28/2019 17:13	WG1353892
trans-1,3-Dichloropropene	U		0.00175	0.00571	1	09/28/2019 17:13	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	09/28/2019 17:13	WG1353892
2,2-Dichloropropane	U		0.000906	0.00286	1	09/28/2019 17:13	WG1353892
Di-isopropyl ether	U		0.000400	0.00114	1	09/28/2019 17:13	WG1353892
Ethylbenzene	U		0.000606	0.00286	1	09/28/2019 17:13	WG1353892
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	09/28/2019 17:13	WG1353892
2-Hexanone	U		0.0114	0.0286	1	09/28/2019 17:13	WG1353892
n-Hexane	0.00567 J	J	0.00121	0.00571	1	09/28/2019 17:13	WG1353892
Iodomethane	U		0.00691	0.0143	1	09/28/2019 17:13	WG1353892
Isopropylbenzene	U		0.000986	0.00286	1	09/28/2019 17:13	WG1353892
p-Isopropyltoluene	U		0.00266	0.00571	1	09/28/2019 17:13	WG1353892
2-Butanone (MEK)	U		0.0143	0.0286	1	09/28/2019 17:13	WG1353892
Methylene Chloride	0.00924 U	B J	0.00759	0.0286	1	09/28/2019 17:13	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	09/28/2019 17:13	WG1353892

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000337	0.00114	1	09/28/2019 17:13	WG1353892
Naphthalene	U		0.00357	0.0143	1	09/28/2019 17:13	WG1353892
n-Propylbenzene	U		0.00135	0.00571	1	09/28/2019 17:13	WG1353892
Styrene	U		0.00312	0.0143	1	09/28/2019 17:13	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000571	0.00286	1	09/28/2019 17:13	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1	09/28/2019 17:13	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000771	0.00286	1	09/28/2019 17:13	WG1353892
Tetrachloroethene	U		0.000800	0.00286	1	09/28/2019 17:13	WG1353892
Toluene	0.0140		0.00143	0.00571	1	09/28/2019 17:13	WG1353892
1,2,3-Trichlorobenzene	U		0.000714	0.00286	1	09/28/2019 17:13	WG1353892
1,2,4-Trichlorobenzene	U		0.00551	0.0143	1	09/28/2019 17:13	WG1353892
1,1,1-Trichloroethane	U		0.000314	0.00286	1	09/28/2019 17:13	WG1353892
1,1,2-Trichloroethane	U		0.00101	0.00286	1	09/28/2019 17:13	WG1353892
Trichloroethene	U		0.000457	0.00114	1	09/28/2019 17:13	WG1353892
Trichlorofluoromethane	0.00188 J	J	0.000571	0.00286	1	09/28/2019 17:13	WG1353892
1,2,3-Trichloropropane	U		0.00583	0.0143	1	09/28/2019 17:13	WG1353892
1,2,4-Trimethylbenzene	U		0.00133	0.00571	1	09/28/2019 17:13	WG1353892
1,2,3-Trimethylbenzene	U		0.00131	0.00571	1	09/28/2019 17:13	WG1353892
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	09/28/2019 17:13	WG1353892
Vinyl acetate	U		0.00402	0.0143	1	09/28/2019 17:13	WG1353892
Vinyl chloride	U		0.000781	0.00286	1	09/28/2019 17:13	WG1353892
Xylenes, Total	U		0.00546	0.00743	1	09/28/2019 17:13	WG1353892
(S) Toluene-d8	*110*			*75.0-131*		*09/28/2019 17:13*	WG1353892
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/28/2019 17:13*	WG1353892
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/28/2019 17:13*	WG1353892

JC 11/11/19

SAMPLE RESULTS - 06

L1141869

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.3		1	09/27/2019 13:49	WG1352841

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0739		0.0173	0.0315	1	09/28/2019 17:33	WG1353892
Acrylonitrile	U UJ	J0	0.00240	0.0158	1	09/28/2019 17:33	WG1353892
Benzene	0.00112 J	J	0.000504	0.00126	1	09/28/2019 17:33	WG1353892
Bromobenzene	U		0.00132	0.0158	1	09/28/2019 17:33	WG1353892
Bromodichloromethane	U		0.000994	0.00315	1	09/28/2019 17:33	WG1353892
Bromochloromethane	U		0.00142	0.00631	1	09/28/2019 17:33	WG1353892
Bromoform	U		0.00754	0.0315	1	09/28/2019 17:33	WG1353892
Bromomethane	U		0.00467	0.0158	1	09/28/2019 17:33	WG1353892
n-Butylbenzene	U		0.00484	0.0158	1	09/28/2019 17:33	WG1353892
sec-Butylbenzene	U		0.00319	0.0158	1	09/28/2019 17:33	WG1353892
tert-Butylbenzene	U		0.00195	0.00631	1	09/28/2019 17:33	WG1353892
Carbon disulfide	U		0.00512	0.0158	1	09/28/2019 17:33	WG1353892
Carbon tetrachloride	U		0.00136	0.00631	1	09/28/2019 17:33	WG1353892
Chlorobenzene	U		0.000723	0.00315	1	09/28/2019 17:33	WG1353892
Chlorodibromomethane	U		0.000567	0.00315	1	09/28/2019 17:33	WG1353892
Chloroethane	U		0.00136	0.00631	1	09/28/2019 17:33	WG1353892
Chloroform	U		0.000523	0.00315	1	09/28/2019 17:33	WG1353892
Chloromethane	U		0.00175	0.0158	1	09/28/2019 17:33	WG1353892
2-Chlorotoluene	U		0.00116	0.00315	1	09/28/2019 17:33	WG1353892
4-Chlorotoluene	U		0.00142	0.00631	1	09/28/2019 17:33	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00643	0.0315	1	09/28/2019 17:33	WG1353892
1,2-Dibromoethane	U		0.000662	0.00315	1	09/28/2019 17:33	WG1353892
Dibromomethane	U		0.00126	0.00631	1	09/28/2019 17:33	WG1353892
1,2-Dichlorobenzene	U		0.00183	0.00631	1	09/28/2019 17:33	WG1353892
1,3-Dichlorobenzene	U		0.00214	0.00631	1	09/28/2019 17:33	WG1353892
1,4-Dichlorobenzene	U		0.00248	0.00631	1	09/28/2019 17:33	WG1353892
Dichlorodifluoromethane	U		0.00103	0.00315	1	09/28/2019 17:33	WG1353892
1,1-Dichloroethane	U		0.000725	0.00315	1	09/28/2019 17:33	WG1353892
1,2-Dichloroethane	U		0.000599	0.00315	1	09/28/2019 17:33	WG1353892
1,1-Dichloroethene	U		0.000631	0.00315	1	09/28/2019 17:33	WG1353892
cis-1,2-Dichloroethene	U		0.000870	0.00315	1	09/28/2019 17:33	WG1353892
trans-1,2-Dichloroethene	U		0.00180	0.00631	1	09/28/2019 17:33	WG1353892
1,2-Dichloropropane	U		0.00160	0.00631	1	09/28/2019 17:33	WG1353892
1,1-Dichloropropene	U		0.000883	0.00315	1	09/28/2019 17:33	WG1353892
1,3-Dichloropropane	U		0.00221	0.00631	1	09/28/2019 17:33	WG1353892
cis-1,3-Dichloropropene	U		0.000855	0.00315	1	09/28/2019 17:33	WG1353892
trans-1,3-Dichloropropene	U		0.00193	0.00631	1	09/28/2019 17:33	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00177	0.00631	1	09/28/2019 17:33	WG1353892
2,2-Dichloropropane	U		0.00100	0.00315	1	09/28/2019 17:33	WG1353892
Di-isopropyl ether	U		0.000441	0.00126	1	09/28/2019 17:33	WG1353892
Ethylbenzene	U		0.000668	0.00315	1	09/28/2019 17:33	WG1353892
Hexachloro-1,3-butadiene	U		0.0160	0.0315	1	09/28/2019 17:33	WG1353892
2-Hexanone	U		0.0126	0.0315	1	09/28/2019 17:33	WG1353892
n-Hexane	0.0300		0.00134	0.00631	1	09/28/2019 17:33	WG1353892
Iodomethane	U		0.00763	0.0158	1	09/28/2019 17:33	WG1353892
Isopropylbenzene	U		0.00109	0.00315	1	09/28/2019 17:33	WG1353892
p-Isopropyltoluene	U		0.00294	0.00631	1	09/28/2019 17:33	WG1353892
2-Butanone (MEK)	U		0.0158	0.0315	1	09/28/2019 17:33	WG1353892
Methylene Chloride	0.00950 U	B J	0.00837	0.0315	1	09/28/2019 17:33	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0126	0.0315	1	09/28/2019 17:33	WG1353892

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000372	0.00126	1	09/28/2019 17:33	WG1353892
Naphthalene	0.00502 J	J	0.00393	0.0158	1	09/28/2019 17:33	WG1353892
n-Propylbenzene	U		0.00149	0.00631	1	09/28/2019 17:33	WG1353892
Styrene	U		0.00344	0.0158	1	09/28/2019 17:33	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000631	0.00315	1	09/28/2019 17:33	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000492	0.00315	1	09/28/2019 17:33	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000851	0.00315	1	09/28/2019 17:33	WG1353892
Tetrachloroethene	U		0.000883	0.00315	1	09/28/2019 17:33	WG1353892
Toluene	0.0151		0.00158	0.00631	1	09/28/2019 17:33	WG1353892
1,2,3-Trichlorobenzene	U		0.000788	0.00315	1	09/28/2019 17:33	WG1353892
1,2,4-Trichlorobenzene	U		0.00608	0.0158	1	09/28/2019 17:33	WG1353892
1,1,1-Trichloroethane	U		0.000347	0.00315	1	09/28/2019 17:33	WG1353892
1,1,2-Trichloroethane	U		0.00111	0.00315	1	09/28/2019 17:33	WG1353892
Trichloroethene	U		0.000504	0.00126	1	09/28/2019 17:33	WG1353892
Trichlorofluoromethane	0.00661		0.000631	0.00315	1	09/28/2019 17:33	WG1353892
1,2,3-Trichloropropane	U		0.00643	0.0158	1	09/28/2019 17:33	WG1353892
1,2,4-Trimethylbenzene	U		0.00146	0.00631	1	09/28/2019 17:33	WG1353892
1,2,3-Trimethylbenzene	U		0.00145	0.00631	1	09/28/2019 17:33	WG1353892
1,3,5-Trimethylbenzene	U		0.00136	0.00631	1	09/28/2019 17:33	WG1353892
Vinyl acetate	U		0.00444	0.0158	1	09/28/2019 17:33	WG1353892
Vinyl chloride	U		0.000861	0.00315	1	09/28/2019 17:33	WG1353892
Xylenes, Total	U		0.00603	0.00820	1	09/28/2019 17:33	WG1353892
(S) Toluene-d8	*106*			*75.0-131*		*09/28/2019 17:33*	WG1353892
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*		*09/28/2019 17:33*	WG1353892
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/28/2019 17:33*	WG1353892

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	84.7		1	09/27/2019 13:49	WG1352841

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0429		0.0162	0.0295	1	09/28/2019 17:53	WG1353892
Acrylonitrile	U UJ	J0	0.00224	0.0148	1	09/28/2019 17:53	WG1353892
Benzene	U		0.000472	0.00118	1	09/28/2019 17:53	WG1353892
Bromobenzene	U		0.00124	0.0148	1	09/28/2019 17:53	WG1353892
Bromodichloromethane	U		0.000930	0.00295	1	09/28/2019 17:53	WG1353892
Bromochloromethane	U		0.00133	0.00590	1	09/28/2019 17:53	WG1353892
Bromoform	U		0.00706	0.0295	1	09/28/2019 17:53	WG1353892
Bromomethane	U		0.00437	0.0148	1	09/28/2019 17:53	WG1353892
n-Butylbenzene	U		0.00453	0.0148	1	09/28/2019 17:53	WG1353892
sec-Butylbenzene	U		0.00299	0.0148	1	09/28/2019 17:53	WG1353892
tert-Butylbenzene	U		0.00183	0.00590	1	09/28/2019 17:53	WG1353892
Carbon disulfide	U		0.00479	0.0148	1	09/28/2019 17:53	WG1353892
Carbon tetrachloride	U		0.00127	0.00590	1	09/28/2019 17:53	WG1353892
Chlorobenzene	U		0.000676	0.00295	1	09/28/2019 17:53	WG1353892
Chlorodibromomethane	U		0.000531	0.00295	1	09/28/2019 17:53	WG1353892
Chloroethane	U		0.00127	0.00590	1	09/28/2019 17:53	WG1353892
Chloroform	U		0.000490	0.00295	1	09/28/2019 17:53	WG1353892
Chloromethane	U		0.00164	0.0148	1	09/28/2019 17:53	WG1353892
2-Chlorotoluene	U		0.00109	0.00295	1	09/28/2019 17:53	WG1353892
4-Chlorotoluene	U		0.00133	0.00590	1	09/28/2019 17:53	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00602	0.0295	1	09/28/2019 17:53	WG1353892
1,2-Dibromoethane	U		0.000620	0.00295	1	09/28/2019 17:53	WG1353892
Dibromomethane	U		0.00118	0.00590	1	09/28/2019 17:53	WG1353892
1,2-Dichlorobenzene	U		0.00171	0.00590	1	09/28/2019 17:53	WG1353892
1,3-Dichlorobenzene	U		0.00201	0.00590	1	09/28/2019 17:53	WG1353892
1,4-Dichlorobenzene	U		0.00233	0.00590	1	09/28/2019 17:53	WG1353892
Dichlorodifluoromethane	U		0.000966	0.00295	1	09/28/2019 17:53	WG1353892
1,1-Dichloroethane	U		0.000679	0.00295	1	09/28/2019 17:53	WG1353892
1,2-Dichloroethane	U		0.000561	0.00295	1	09/28/2019 17:53	WG1353892
1,1-Dichloroethene	U		0.000590	0.00295	1	09/28/2019 17:53	WG1353892
cis-1,2-Dichloroethene	U		0.000815	0.00295	1	09/28/2019 17:53	WG1353892
trans-1,2-Dichloroethene	U		0.00169	0.00590	1	09/28/2019 17:53	WG1353892
1,2-Dichloropropane	U		0.00150	0.00590	1	09/28/2019 17:53	WG1353892
1,1-Dichloropropene	U		0.000826	0.00295	1	09/28/2019 17:53	WG1353892
1,3-Dichloropropane	U		0.00207	0.00590	1	09/28/2019 17:53	WG1353892
cis-1,3-Dichloropropene	U		0.000800	0.00295	1	09/28/2019 17:53	WG1353892
trans-1,3-Dichloropropene	U		0.00181	0.00590	1	09/28/2019 17:53	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00165	0.00590	1	09/28/2019 17:53	WG1353892
2,2-Dichloropropane	U		0.000936	0.00295	1	09/28/2019 17:53	WG1353892
Di-isopropyl ether	U		0.000413	0.00118	1	09/28/2019 17:53	WG1353892
Ethylbenzene	U		0.000626	0.00295	1	09/28/2019 17:53	WG1353892 JC 11/11/19
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	09/28/2019 17:53	WG1353892
2-Hexanone	U		0.0118	0.0295	1	09/28/2019 17:53	WG1353892
n-Hexane	0.0254		0.00125	0.00590	1	09/28/2019 17:53	WG1353892
Iodomethane	U		0.00714	0.0148	1	09/28/2019 17:53	WG1353892
Isopropylbenzene	U		0.00102	0.00295	1	09/28/2019 17:53	WG1353892
p-Isopropyltoluene	U		0.00275	0.00590	1	09/28/2019 17:53	WG1353892
2-Butanone (MEK)	U		0.0148	0.0295	1	09/28/2019 17:53	WG1353892
Methylene Chloride	0.00804 U	B J	0.00784	0.0295	1	09/28/2019 17:53	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	09/28/2019 17:53	WG1353892

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000348	0.00118	1	09/28/2019 17:53	WG1353892
Naphthalene	U		0.00368	0.0148	1	09/28/2019 17:53	WG1353892
n-Propylbenzene	U		0.00139	0.00590	1	09/28/2019 17:53	WG1353892
Styrene	U		0.00322	0.0148	1	09/28/2019 17:53	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000590	0.00295	1	09/28/2019 17:53	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000460	0.00295	1	09/28/2019 17:53	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000797	0.00295	1	09/28/2019 17:53	WG1353892
Tetrachloroethene	U		0.000826	0.00295	1	09/28/2019 17:53	WG1353892
Toluene	0.00939		0.00148	0.00590	1	09/28/2019 17:53	WG1353892
1,2,3-Trichlorobenzene	U		0.000738	0.00295	1	09/28/2019 17:53	WG1353892
1,2,4-Trichlorobenzene	U		0.00569	0.0148	1	09/28/2019 17:53	WG1353892
1,1,1-Trichloroethane	U		0.000325	0.00295	1	09/28/2019 17:53	WG1353892
1,1,2-Trichloroethane	U		0.00104	0.00295	1	09/28/2019 17:53	WG1353892
Trichloroethene	U		0.000472	0.00118	1	09/28/2019 17:53	WG1353892
Trichlorofluoromethane	0.00495		0.000590	0.00295	1	09/28/2019 17:53	WG1353892
1,2,3-Trichloropropane	U		0.00602	0.0148	1	09/28/2019 17:53	WG1353892
1,2,4-Trimethylbenzene	U		0.00137	0.00590	1	09/28/2019 17:53	WG1353892
1,2,3-Trimethylbenzene	U		0.00136	0.00590	1	09/28/2019 17:53	WG1353892
1,3,5-Trimethylbenzene	U		0.00127	0.00590	1	09/28/2019 17:53	WG1353892
Vinyl acetate	U		0.00416	0.0148	1	09/28/2019 17:53	WG1353892
Vinyl chloride	U		0.000806	0.00295	1	09/28/2019 17:53	WG1353892
Xylenes, Total	U		0.00564	0.00767	1	09/28/2019 17:53	WG1353892
(S) Toluene-d8	*109*			*75.0-131*		*09/28/2019 17:53*	WG1353892
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*09/28/2019 17:53*	WG1353892
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/28/2019 17:53*	WG1353892

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.2		1	09/27/2019 13:49	WG1352841

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0414		0.0163	0.0297	1	09/28/2019 18:14	WG1353892
Acrylonitrile	U UJ	J0	0.00226	0.0148	1	09/28/2019 18:14	WG1353892
Benzene	U		0.000475	0.00119	1	09/28/2019 18:14	WG1353892
Bromobenzene	U		0.00125	0.0148	1	09/28/2019 18:14	WG1353892
Bromodichloromethane	U		0.000936	0.00297	1	09/28/2019 18:14	WG1353892
Bromochloromethane	U		0.00134	0.00594	1	09/28/2019 18:14	WG1353892
Bromoform	U		0.00710	0.0297	1	09/28/2019 18:14	WG1353892
Bromomethane	U		0.00439	0.0148	1	09/28/2019 18:14	WG1353892
n-Butylbenzene	U		0.00456	0.0148	1	09/28/2019 18:14	WG1353892
sec-Butylbenzene	U		0.00300	0.0148	1	09/28/2019 18:14	WG1353892
tert-Butylbenzene	U		0.00184	0.00594	1	09/28/2019 18:14	WG1353892
Carbon disulfide	U		0.00482	0.0148	1	09/28/2019 18:14	WG1353892
Carbon tetrachloride	U		0.00128	0.00594	1	09/28/2019 18:14	WG1353892
Chlorobenzene	U		0.000680	0.00297	1	09/28/2019 18:14	WG1353892
Chlorodibromomethane	U		0.000534	0.00297	1	09/28/2019 18:14	WG1353892
Chloroethane	U		0.00128	0.00594	1	09/28/2019 18:14	WG1353892
Chloroform	U		0.000493	0.00297	1	09/28/2019 18:14	WG1353892
Chloromethane	U		0.00165	0.0148	1	09/28/2019 18:14	WG1353892
2-Chlorotoluene	U		0.00109	0.00297	1	09/28/2019 18:14	WG1353892
4-Chlorotoluene	U		0.00134	0.00594	1	09/28/2019 18:14	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00606	0.0297	1	09/28/2019 18:14	WG1353892
1,2-Dibromoethane	U		0.000623	0.00297	1	09/28/2019 18:14	WG1353892
Dibromomethane	U		0.00119	0.00594	1	09/28/2019 18:14	WG1353892
1,2-Dichlorobenzene	U		0.00172	0.00594	1	09/28/2019 18:14	WG1353892
1,3-Dichlorobenzene	U		0.00202	0.00594	1	09/28/2019 18:14	WG1353892
1,4-Dichlorobenzene	U		0.00234	0.00594	1	09/28/2019 18:14	WG1353892
Dichlorodifluoromethane	U		0.000971	0.00297	1	09/28/2019 18:14	WG1353892
1,1-Dichloroethane	U		0.000683	0.00297	1	09/28/2019 18:14	WG1353892
1,2-Dichloroethane	U		0.000564	0.00297	1	09/28/2019 18:14	WG1353892
1,1-Dichloroethene	U		0.000594	0.00297	1	09/28/2019 18:14	WG1353892
cis-1,2-Dichloroethene	U		0.000819	0.00297	1	09/28/2019 18:14	WG1353892
trans-1,2-Dichloroethene	U		0.00170	0.00594	1	09/28/2019 18:14	WG1353892
1,2-Dichloropropane	U		0.00151	0.00594	1	09/28/2019 18:14	WG1353892
1,1-Dichloropropene	U		0.000831	0.00297	1	09/28/2019 18:14	WG1353892
1,3-Dichloropropane	U		0.00208	0.00594	1	09/28/2019 18:14	WG1353892
cis-1,3-Dichloropropene	U		0.000805	0.00297	1	09/28/2019 18:14	WG1353892
trans-1,3-Dichloropropene	U		0.00182	0.00594	1	09/28/2019 18:14	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00166	0.00594	1	09/28/2019 18:14	WG1353892
2,2-Dichloropropane	U		0.000942	0.00297	1	09/28/2019 18:14	WG1353892
Di-isopropyl ether	U		0.000416	0.00119	1	09/28/2019 18:14	WG1353892
Ethylbenzene	U		0.000629	0.00297	1	09/28/2019 18:14	WG1353892
Hexachloro-1,3-butadiene	U		0.0151	0.0297	1	09/28/2019 18:14	WG1353892
2-Hexanone	U		0.0119	0.0297	1	09/28/2019 18:14	WG1353892
n-Hexane	0.00532 J	J	0.00126	0.00594	1	09/28/2019 18:14	WG1353892
Iodomethane	U		0.00718	0.0148	1	09/28/2019 18:14	WG1353892
Isopropylbenzene	U		0.00102	0.00297	1	09/28/2019 18:14	WG1353892
p-Isopropyltoluene	U		0.00277	0.00594	1	09/28/2019 18:14	WG1353892
2-Butanone (MEK)	U		0.0148	0.0297	1	09/28/2019 18:14	WG1353892
Methylene Chloride	0.00814 U	B J	0.00789	0.0297	1	09/28/2019 18:14	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0297	1	09/28/2019 18:14	WG1353892

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000350	0.00119	1	09/28/2019 18:14	WG1353892
Naphthalene	U		0.00371	0.0148	1	09/28/2019 18:14	WG1353892
n-Propylbenzene	U		0.00140	0.00594	1	09/28/2019 18:14	WG1353892
Styrene	U		0.00324	0.0148	1	09/28/2019 18:14	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000594	0.00297	1	09/28/2019 18:14	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000463	0.00297	1	09/28/2019 18:14	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000802	0.00297	1	09/28/2019 18:14	WG1353892
Tetrachloroethene	U		0.000831	0.00297	1	09/28/2019 18:14	WG1353892
Toluene	0.00874		0.00148	0.00594	1	09/28/2019 18:14	WG1353892
1,2,3-Trichlorobenzene	U		0.000742	0.00297	1	09/28/2019 18:14	WG1353892
1,2,4-Trichlorobenzene	U		0.00572	0.0148	1	09/28/2019 18:14	WG1353892
1,1,1-Trichloroethane	U		0.000327	0.00297	1	09/28/2019 18:14	WG1353892
1,1,2-Trichloroethane	U		0.00105	0.00297	1	09/28/2019 18:14	WG1353892
Trichloroethene	U		0.000475	0.00119	1	09/28/2019 18:14	WG1353892
Trichlorofluoromethane	0.00186 J	J	0.000594	0.00297	1	09/28/2019 18:14	WG1353892
1,2,3-Trichloropropane	U		0.00606	0.0148	1	09/28/2019 18:14	WG1353892
1,2,4-Trimethylbenzene	U		0.00138	0.00594	1	09/28/2019 18:14	WG1353892
1,2,3-Trimethylbenzene	U		0.00137	0.00594	1	09/28/2019 18:14	WG1353892
1,3,5-Trimethylbenzene	U		0.00128	0.00594	1	09/28/2019 18:14	WG1353892
Vinyl acetate	U		0.00418	0.0148	1	09/28/2019 18:14	WG1353892
Vinyl chloride	U		0.000811	0.00297	1	09/28/2019 18:14	WG1353892
Xylenes, Total	U		0.00568	0.00772	1	09/28/2019 18:14	WG1353892
(S) Toluene-d8	*112*			*75.0-131*		*09/28/2019 18:14*	WG1353892
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*09/28/2019 18:14*	WG1353892
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/28/2019 18:14*	WG1353892

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.9		1	09/27/2019 13:31	WG1352842

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0568		0.0167	0.0305	1	09/28/2019 18:34	WG1353892
Acrylonitrile	U UJ	J0	0.00232	0.0153	1	09/28/2019 18:34	WG1353892
Benzene	0.0772		0.000488	0.00122	1	09/28/2019 18:34	WG1353892
Bromobenzene	U		0.00128	0.0153	1	09/28/2019 18:34	WG1353892
Bromodichloromethane	U		0.000962	0.00305	1	09/28/2019 18:34	WG1353892
Bromochloromethane	U		0.00138	0.00611	1	09/28/2019 18:34	WG1353892
Bromoform	U		0.00730	0.0305	1	09/28/2019 18:34	WG1353892
Bromomethane	U		0.00452	0.0153	1	09/28/2019 18:34	WG1353892
n-Butylbenzene	U		0.00469	0.0153	1	09/28/2019 18:34	WG1353892
sec-Butylbenzene	U		0.00309	0.0153	1	09/28/2019 18:34	WG1353892
tert-Butylbenzene	U		0.00189	0.00611	1	09/28/2019 18:34	WG1353892
Carbon disulfide	U		0.00496	0.0153	1	09/28/2019 18:34	WG1353892
Carbon tetrachloride	U		0.00132	0.00611	1	09/28/2019 18:34	WG1353892
Chlorobenzene	U		0.000700	0.00305	1	09/28/2019 18:34	WG1353892
Chlorodibromomethane	U		0.000549	0.00305	1	09/28/2019 18:34	WG1353892
Chloroethane	U		0.00132	0.00611	1	09/28/2019 18:34	WG1353892
Chloroform	U		0.000507	0.00305	1	09/28/2019 18:34	WG1353892
Chloromethane	U		0.00170	0.0153	1	09/28/2019 18:34	WG1353892
2-Chlorotoluene	U		0.00112	0.00305	1	09/28/2019 18:34	WG1353892
4-Chlorotoluene	U		0.00138	0.00611	1	09/28/2019 18:34	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00623	0.0305	1	09/28/2019 18:34	WG1353892
1,2-Dibromoethane	U		0.000641	0.00305	1	09/28/2019 18:34	WG1353892
Dibromomethane	U		0.00122	0.00611	1	09/28/2019 18:34	WG1353892
1,2-Dichlorobenzene	U		0.00177	0.00611	1	09/28/2019 18:34	WG1353892
1,3-Dichlorobenzene	U		0.00208	0.00611	1	09/28/2019 18:34	WG1353892
1,4-Dichlorobenzene	U		0.00241	0.00611	1	09/28/2019 18:34	WG1353892
Dichlorodifluoromethane	U		0.000999	0.00305	1	09/28/2019 18:34	WG1353892
1,1-Dichloroethane	U		0.000702	0.00305	1	09/28/2019 18:34	WG1353892
1,2-Dichloroethane	U		0.000580	0.00305	1	09/28/2019 18:34	WG1353892
1,1-Dichloroethene	U		0.000611	0.00305	1	09/28/2019 18:34	WG1353892
cis-1,2-Dichloroethene	U		0.000843	0.00305	1	09/28/2019 18:34	WG1353892
trans-1,2-Dichloroethene	U		0.00175	0.00611	1	09/28/2019 18:34	WG1353892
1,2-Dichloropropane	U		0.00155	0.00611	1	09/28/2019 18:34	WG1353892
1,1-Dichloropropene	U		0.000855	0.00305	1	09/28/2019 18:34	WG1353892
1,3-Dichloropropane	U		0.00214	0.00611	1	09/28/2019 18:34	WG1353892
cis-1,3-Dichloropropene	U		0.000828	0.00305	1	09/28/2019 18:34	WG1353892
trans-1,3-Dichloropropene	U		0.00187	0.00611	1	09/28/2019 18:34	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00171	0.00611	1	09/28/2019 18:34	WG1353892
2,2-Dichloropropane	U		0.000968	0.00305	1	09/28/2019 18:34	WG1353892
Di-isopropyl ether	U		0.000427	0.00122	1	09/28/2019 18:34	WG1353892
Ethylbenzene	U		0.000647	0.00305	1	09/28/2019 18:34	WG1353892
Hexachloro-1,3-butadiene	U		0.0155	0.0305	1	09/28/2019 18:34	WG1353892
2-Hexanone	U		0.0122	0.0305	1	09/28/2019 18:34	WG1353892
n-Hexane	0.0245		0.00129	0.00611	1	09/28/2019 18:34	WG1353892
Iodomethane	U		0.00739	0.0153	1	09/28/2019 18:34	WG1353892
Isopropylbenzene	U		0.00105	0.00305	1	09/28/2019 18:34	WG1353892
p-Isopropyltoluene	U		0.00285	0.00611	1	09/28/2019 18:34	WG1353892
2-Butanone (MEK)	U		0.0153	0.0305	1	09/28/2019 18:34	WG1353892
Methylene Chloride	0.0122 U	B J	0.00811	0.0305	1	09/28/2019 18:34	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0305	1	09/28/2019 18:34	WG1353892

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000360	0.00122	1	09/28/2019 18:34	WG1353892
Naphthalene	U		0.00381	0.0153	1	09/28/2019 18:34	WG1353892
n-Propylbenzene	U		0.00144	0.00611	1	09/28/2019 18:34	WG1353892
Styrene	U		0.00333	0.0153	1	09/28/2019 18:34	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000611	0.00305	1	09/28/2019 18:34	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000476	0.00305	1	09/28/2019 18:34	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000824	0.00305	1	09/28/2019 18:34	WG1353892
Tetrachloroethene	U		0.000855	0.00305	1	09/28/2019 18:34	WG1353892
Toluene	0.00662		0.00153	0.00611	1	09/28/2019 18:34	WG1353892
1,2,3-Trichlorobenzene	U		0.000763	0.00305	1	09/28/2019 18:34	WG1353892
1,2,4-Trichlorobenzene	U		0.00589	0.0153	1	09/28/2019 18:34	WG1353892
1,1,1-Trichloroethane	U		0.000336	0.00305	1	09/28/2019 18:34	WG1353892
1,1,2-Trichloroethane	U		0.00108	0.00305	1	09/28/2019 18:34	WG1353892
Trichloroethene	U		0.000488	0.00122	1	09/28/2019 18:34	WG1353892
Trichlorofluoromethane	0.00575		0.000611	0.00305	1	09/28/2019 18:34	WG1353892
1,2,3-Trichloropropane	U		0.00623	0.0153	1	09/28/2019 18:34	WG1353892
1,2,4-Trimethylbenzene	U		0.00142	0.00611	1	09/28/2019 18:34	WG1353892
1,2,3-Trimethylbenzene	U		0.00140	0.00611	1	09/28/2019 18:34	WG1353892
1,3,5-Trimethylbenzene	U		0.00132	0.00611	1	09/28/2019 18:34	WG1353892
Vinyl acetate	U		0.00430	0.0153	1	09/28/2019 18:34	WG1353892
Vinyl chloride	U		0.000834	0.00305	1	09/28/2019 18:34	WG1353892
Xylenes, Total	U		0.00584	0.00794	1	09/28/2019 18:34	WG1353892
(S) Toluene-d8	*111*			*75.0-131*		*09/28/2019 18:34*	WG1353892
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*09/28/2019 18:34*	WG1353892
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/28/2019 18:34*	WG1353892

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.2		1	09/27/2019 13:31	WG1352842

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U			0.0173	0.0316	1	09/28/2019 18:54	WG1353892	
Acrylonitrile	U	UJ	J0	0.00240	0.0158	1	09/28/2019 18:54	WG1353892	
Benzene	0.0431			0.000505	0.00126	1	09/28/2019 18:54	WG1353892	
Bromobenzene	U			0.00133	0.0158	1	09/28/2019 18:54	WG1353892	
Bromodichloromethane	U			0.000995	0.00316	1	09/28/2019 18:54	WG1353892	
Bromochloromethane	U			0.00143	0.00631	1	09/28/2019 18:54	WG1353892	
Bromoform	U			0.00755	0.0316	1	09/28/2019 18:54	WG1353892	
Bromomethane	U			0.00467	0.0158	1	09/28/2019 18:54	WG1353892	
n-Butylbenzene	U			0.00485	0.0158	1	09/28/2019 18:54	WG1353892	
sec-Butylbenzene	U			0.00320	0.0158	1	09/28/2019 18:54	WG1353892	
tert-Butylbenzene	U			0.00196	0.00631	1	09/28/2019 18:54	WG1353892	
Carbon disulfide	U			0.00513	0.0158	1	09/28/2019 18:54	WG1353892	
Carbon tetrachloride	U			0.00136	0.00631	1	09/28/2019 18:54	WG1353892	
Chlorobenzene	U			0.000724	0.00316	1	09/28/2019 18:54	WG1353892	
Chlorodibromomethane	U			0.000568	0.00316	1	09/28/2019 18:54	WG1353892	
Chloroethane	U			0.00136	0.00631	1	09/28/2019 18:54	WG1353892	
Chloroform	U			0.000524	0.00316	1	09/28/2019 18:54	WG1353892	
Chloromethane	U			0.00176	0.0158	1	09/28/2019 18:54	WG1353892	
2-Chlorotoluene	U			0.00116	0.00316	1	09/28/2019 18:54	WG1353892	
4-Chlorotoluene	U			0.00143	0.00631	1	09/28/2019 18:54	WG1353892	
1,2-Dibromo-3-Chloropropane	U			0.00644	0.0316	1	09/28/2019 18:54	WG1353892	
1,2-Dibromoethane	U			0.000663	0.00316	1	09/28/2019 18:54	WG1353892	
Dibromomethane	U			0.00126	0.00631	1	09/28/2019 18:54	WG1353892	
1,2-Dichlorobenzene	U			0.00183	0.00631	1	09/28/2019 18:54	WG1353892	
1,3-Dichlorobenzene	U			0.00215	0.00631	1	09/28/2019 18:54	WG1353892	
1,4-Dichlorobenzene	U			0.00249	0.00631	1	09/28/2019 18:54	WG1353892	
Dichlorodifluoromethane	U			0.00103	0.00316	1	09/28/2019 18:54	WG1353892	
1,1-Dichloroethane	U			0.000726	0.00316	1	09/28/2019 18:54	WG1353892	
1,2-Dichloroethane	U			0.000600	0.00316	1	09/28/2019 18:54	WG1353892	
1,1-Dichloroethene	U			0.000631	0.00316	1	09/28/2019 18:54	WG1353892	
cis-1,2-Dichloroethene	0.00211	J	J	0.000871	0.00316	1	09/28/2019 18:54	WG1353892	
trans-1,2-Dichloroethene	U			0.00181	0.00631	1	09/28/2019 18:54	WG1353892	
1,2-Dichloropropane	U			0.00160	0.00631	1	09/28/2019 18:54	WG1353892	
1,1-Dichloropropene	U			0.000884	0.00316	1	09/28/2019 18:54	WG1353892	
1,3-Dichloropropane	U			0.00221	0.00631	1	09/28/2019 18:54	WG1353892	
cis-1,3-Dichloropropene	U			0.000856	0.00316	1	09/28/2019 18:54	WG1353892	
trans-1,3-Dichloropropene	U			0.00193	0.00631	1	09/28/2019 18:54	WG1353892	
trans-1,4-Dichloro-2-butene	U			0.00177	0.00631	1	09/28/2019 18:54	WG1353892	
2,2-Dichloropropane	U			0.00100	0.00316	1	09/28/2019 18:54	WG1353892	
Di-isopropyl ether	U			0.000442	0.00126	1	09/28/2019 18:54	WG1353892	
Ethylbenzene	0.00373			0.000669	0.00316	1	09/28/2019 18:54	WG1353892	
Hexachloro-1,3-butadiene	U			0.0160	0.0316	1	09/28/2019 18:54	WG1353892	
2-Hexanone	U			0.0126	0.0316	1	09/28/2019 18:54	WG1353892	
n-Hexane	0.00237	J	J	0.00134	0.00631	1	09/28/2019 18:54	WG1353892	
Iodomethane	U			0.00764	0.0158	1	09/28/2019 18:54	WG1353892	
Isopropylbenzene	U			0.00109	0.00316	1	09/28/2019 18:54	WG1353892	
p-Isopropyltoluene	U			0.00294	0.00631	1	09/28/2019 18:54	WG1353892	JC 11/11/19
2-Butanone (MEK)	U			0.0158	0.0316	1	09/28/2019 18:54	WG1353892	
Methylene Chloride	0.0109	U	B J	0.00839	0.0316	1	09/28/2019 18:54	WG1353892	
4-Methyl-2-pentanone (MIBK)	U			0.0126	0.0316	1	09/28/2019 18:54	WG1353892	

MW-319-55

Collected date/time: 09/18/19 12:30

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000373	0.00126	1	09/28/2019 18:54	WG1353892
Naphthalene	U		0.00394	0.0158	1	09/28/2019 18:54	WG1353892
n-Propylbenzene	U		0.00149	0.00631	1	09/28/2019 18:54	WG1353892
Styrene	U		0.00345	0.0158	1	09/28/2019 18:54	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000631	0.00316	1	09/28/2019 18:54	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000493	0.00316	1	09/28/2019 18:54	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000852	0.00316	1	09/28/2019 18:54	WG1353892
Tetrachloroethene	U		0.000884	0.00316	1	09/28/2019 18:54	WG1353892
Toluene	0.0279		0.00158	0.00631	1	09/28/2019 18:54	WG1353892
1,2,3-Trichlorobenzene	U		0.000789	0.00316	1	09/28/2019 18:54	WG1353892
1,2,4-Trichlorobenzene	U		0.00609	0.0158	1	09/28/2019 18:54	WG1353892
1,1,1-Trichloroethane	U		0.000347	0.00316	1	09/28/2019 18:54	WG1353892
1,1,2-Trichloroethane	U		0.00112	0.00316	1	09/28/2019 18:54	WG1353892
Trichloroethene	U		0.000505	0.00126	1	09/28/2019 18:54	WG1353892
Trichlorofluoromethane	U		0.000631	0.00316	1	09/28/2019 18:54	WG1353892
1,2,3-Trichloropropane	U		0.00644	0.0158	1	09/28/2019 18:54	WG1353892
1,2,4-Trimethylbenzene	U		0.00146	0.00631	1	09/28/2019 18:54	WG1353892
1,2,3-Trimethylbenzene	U		0.00145	0.00631	1	09/28/2019 18:54	WG1353892
1,3,5-Trimethylbenzene	U		0.00136	0.00631	1	09/28/2019 18:54	WG1353892
Vinyl acetate	U		0.00445	0.0158	1	09/28/2019 18:54	WG1353892
Vinyl chloride	U		0.000863	0.00316	1	09/28/2019 18:54	WG1353892
Xylenes, Total	0.0102		0.00604	0.00821	1	09/28/2019 18:54	WG1353892
(S) Toluene-d8	*110*			*75.0-131*		*09/28/2019 18:54*	WG1353892
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/28/2019 18:54*	WG1353892
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/28/2019 18:54*	WG1353892

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.2		1	09/27/2019 13:31	WG1352842

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0603		0.0163	0.0297	1	09/28/2019 19:14	WG1353892
Acrylonitrile	U UJ	J0	0.00226	0.0148	1	09/28/2019 19:14	WG1353892
Benzene	0.0132		0.000475	0.00119	1	09/28/2019 19:14	WG1353892
Bromobenzene	U		0.00125	0.0148	1	09/28/2019 19:14	WG1353892
Bromodichloromethane	U		0.000936	0.00297	1	09/28/2019 19:14	WG1353892
Bromochloromethane	U		0.00134	0.00594	1	09/28/2019 19:14	WG1353892
Bromoform	U		0.00710	0.0297	1	09/28/2019 19:14	WG1353892
Bromomethane	U		0.00439	0.0148	1	09/28/2019 19:14	WG1353892
n-Butylbenzene	U		0.00456	0.0148	1	09/28/2019 19:14	WG1353892
sec-Butylbenzene	U		0.00300	0.0148	1	09/28/2019 19:14	WG1353892
tert-Butylbenzene	U		0.00184	0.00594	1	09/28/2019 19:14	WG1353892
Carbon disulfide	U		0.00482	0.0148	1	09/28/2019 19:14	WG1353892
Carbon tetrachloride	U		0.00128	0.00594	1	09/28/2019 19:14	WG1353892
Chlorobenzene	U		0.000680	0.00297	1	09/28/2019 19:14	WG1353892
Chlorodibromomethane	U		0.000534	0.00297	1	09/28/2019 19:14	WG1353892
Chloroethane	U		0.00128	0.00594	1	09/28/2019 19:14	WG1353892
Chloroform	U		0.000493	0.00297	1	09/28/2019 19:14	WG1353892
Chloromethane	U		0.00165	0.0148	1	09/28/2019 19:14	WG1353892
2-Chlorotoluene	U		0.00109	0.00297	1	09/28/2019 19:14	WG1353892
4-Chlorotoluene	U		0.00134	0.00594	1	09/28/2019 19:14	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00606	0.0297	1	09/28/2019 19:14	WG1353892
1,2-Dibromoethane	U		0.000623	0.00297	1	09/28/2019 19:14	WG1353892
Dibromomethane	U		0.00119	0.00594	1	09/28/2019 19:14	WG1353892
1,2-Dichlorobenzene	U		0.00172	0.00594	1	09/28/2019 19:14	WG1353892
1,3-Dichlorobenzene	U		0.00202	0.00594	1	09/28/2019 19:14	WG1353892
1,4-Dichlorobenzene	U		0.00234	0.00594	1	09/28/2019 19:14	WG1353892
Dichlorodifluoromethane	U		0.000971	0.00297	1	09/28/2019 19:14	WG1353892
1,1-Dichloroethane	U		0.000683	0.00297	1	09/28/2019 19:14	WG1353892
1,2-Dichloroethane	U		0.000564	0.00297	1	09/28/2019 19:14	WG1353892
1,1-Dichloroethene	U		0.000594	0.00297	1	09/28/2019 19:14	WG1353892
cis-1,2-Dichloroethene	0.00497		0.000819	0.00297	1	09/28/2019 19:14	WG1353892
trans-1,2-Dichloroethene	U		0.00170	0.00594	1	09/28/2019 19:14	WG1353892
1,2-Dichloropropane	U		0.00151	0.00594	1	09/28/2019 19:14	WG1353892
1,1-Dichloropropene	U		0.000831	0.00297	1	09/28/2019 19:14	WG1353892
1,3-Dichloropropane	U		0.00208	0.00594	1	09/28/2019 19:14	WG1353892
cis-1,3-Dichloropropene	U		0.000805	0.00297	1	09/28/2019 19:14	WG1353892
trans-1,3-Dichloropropene	U		0.00182	0.00594	1	09/28/2019 19:14	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00166	0.00594	1	09/28/2019 19:14	WG1353892
2,2-Dichloropropane	U		0.000942	0.00297	1	09/28/2019 19:14	WG1353892
Di-isopropyl ether	U		0.000416	0.00119	1	09/28/2019 19:14	WG1353892
Ethylbenzene	0.00761		0.000629	0.00297	1	09/28/2019 19:14	WG1353892
Hexachloro-1,3-butadiene	U		0.0151	0.0297	1	09/28/2019 19:14	WG1353892
2-Hexanone	U		0.0119	0.0297	1	09/28/2019 19:14	WG1353892
n-Hexane	0.0341		0.00126	0.00594	1	09/28/2019 19:14	WG1353892
Iodomethane	U		0.00718	0.0148	1	09/28/2019 19:14	WG1353892
Isopropylbenzene	U		0.00102	0.00297	1	09/28/2019 19:14	WG1353892
p-Isopropyltoluene	U		0.00277	0.00594	1	09/28/2019 19:14	WG1353892
2-Butanone (MEK)	U		0.0148	0.0297	1	09/28/2019 19:14	WG1353892
Methylene Chloride	0.00996 U	B J	0.00789	0.0297	1	09/28/2019 19:14	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0297	1	09/28/2019 19:14	WG1353892

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000350	0.00119	1	09/28/2019 19:14	WG1353892
Naphthalene	U		0.00371	0.0148	1	09/28/2019 19:14	WG1353892
n-Propylbenzene	U		0.00140	0.00594	1	09/28/2019 19:14	WG1353892
Styrene	U		0.00324	0.0148	1	09/28/2019 19:14	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000594	0.00297	1	09/28/2019 19:14	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000463	0.00297	1	09/28/2019 19:14	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000802	0.00297	1	09/28/2019 19:14	WG1353892
Tetrachloroethene	U		0.000831	0.00297	1	09/28/2019 19:14	WG1353892
Toluene	0.0130		0.00148	0.00594	1	09/28/2019 19:14	WG1353892
1,2,3-Trichlorobenzene	U		0.000742	0.00297	1	09/28/2019 19:14	WG1353892
1,2,4-Trichlorobenzene	U		0.00572	0.0148	1	09/28/2019 19:14	WG1353892
1,1,1-Trichloroethane	U		0.000327	0.00297	1	09/28/2019 19:14	WG1353892
1,1,2-Trichloroethane	U		0.00105	0.00297	1	09/28/2019 19:14	WG1353892
Trichloroethene	U		0.000475	0.00119	1	09/28/2019 19:14	WG1353892
Trichlorofluoromethane	0.00578		0.000594	0.00297	1	09/28/2019 19:14	WG1353892
1,2,3-Trichloropropane	U		0.00606	0.0148	1	09/28/2019 19:14	WG1353892
1,2,4-Trimethylbenzene	U		0.00138	0.00594	1	09/28/2019 19:14	WG1353892
1,2,3-Trimethylbenzene	U		0.00137	0.00594	1	09/28/2019 19:14	WG1353892
1,3,5-Trimethylbenzene	U		0.00128	0.00594	1	09/28/2019 19:14	WG1353892
Vinyl acetate	U		0.00418	0.0148	1	09/28/2019 19:14	WG1353892
Vinyl chloride	U		0.000811	0.00297	1	09/28/2019 19:14	WG1353892
Xylenes, Total	0.0217		0.00568	0.00772	1	09/28/2019 19:14	WG1353892
(S) Toluene-d8	*111*			*75.0-131*		*09/28/2019 19:14*	WG1353892
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*09/28/2019 19:14*	WG1353892
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/28/2019 19:14*	WG1353892

JC 11/11/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.4		1	09/27/2019 13:31	WG1352842

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0593		0.0175	0.0319	1	09/28/2019 19:35	WG1353892
Acrylonitrile	U UJ	J0	0.00242	0.0159	1	09/28/2019 19:35	WG1353892
Benzene	0.00411		0.000510	0.00127	1	09/28/2019 19:35	WG1353892
Bromobenzene	U		0.00134	0.0159	1	09/28/2019 19:35	WG1353892
Bromodichloromethane	U		0.00100	0.00319	1	09/28/2019 19:35	WG1353892
Bromochloromethane	U		0.00144	0.00637	1	09/28/2019 19:35	WG1353892
Bromoform	U		0.00762	0.0319	1	09/28/2019 19:35	WG1353892
Bromomethane	U		0.00472	0.0159	1	09/28/2019 19:35	WG1353892
n-Butylbenzene	U		0.00490	0.0159	1	09/28/2019 19:35	WG1353892
sec-Butylbenzene	U		0.00323	0.0159	1	09/28/2019 19:35	WG1353892
tert-Butylbenzene	U		0.00198	0.00637	1	09/28/2019 19:35	WG1353892
Carbon disulfide	U		0.00518	0.0159	1	09/28/2019 19:35	WG1353892
Carbon tetrachloride	U		0.00138	0.00637	1	09/28/2019 19:35	WG1353892
Chlorobenzene	U		0.000730	0.00319	1	09/28/2019 19:35	WG1353892
Chlorodibromomethane	U		0.000574	0.00319	1	09/28/2019 19:35	WG1353892
Chloroethane	U		0.00138	0.00637	1	09/28/2019 19:35	WG1353892
Chloroform	U		0.000529	0.00319	1	09/28/2019 19:35	WG1353892
Chloromethane	U		0.00177	0.0159	1	09/28/2019 19:35	WG1353892
2-Chlorotoluene	U		0.00117	0.00319	1	09/28/2019 19:35	WG1353892
4-Chlorotoluene	U		0.00144	0.00637	1	09/28/2019 19:35	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00650	0.0319	1	09/28/2019 19:35	WG1353892
1,2-Dibromoethane	U		0.000669	0.00319	1	09/28/2019 19:35	WG1353892
Dibromomethane	U		0.00127	0.00637	1	09/28/2019 19:35	WG1353892
1,2-Dichlorobenzene	U		0.00185	0.00637	1	09/28/2019 19:35	WG1353892
1,3-Dichlorobenzene	U		0.00217	0.00637	1	09/28/2019 19:35	WG1353892
1,4-Dichlorobenzene	U		0.00251	0.00637	1	09/28/2019 19:35	WG1353892
Dichlorodifluoromethane	U		0.00104	0.00319	1	09/28/2019 19:35	WG1353892
1,1-Dichloroethane	U		0.000733	0.00319	1	09/28/2019 19:35	WG1353892
1,2-Dichloroethane	U		0.000606	0.00319	1	09/28/2019 19:35	WG1353892
1,1-Dichloroethene	U		0.000637	0.00319	1	09/28/2019 19:35	WG1353892
cis-1,2-Dichloroethene	0.0139		0.000880	0.00319	1	09/28/2019 19:35	WG1353892
trans-1,2-Dichloroethene	U		0.00182	0.00637	1	09/28/2019 19:35	WG1353892
1,2-Dichloropropane	U		0.00162	0.00637	1	09/28/2019 19:35	WG1353892
1,1-Dichloropropene	U		0.000892	0.00319	1	09/28/2019 19:35	WG1353892
1,3-Dichloropropane	U		0.00223	0.00637	1	09/28/2019 19:35	WG1353892
cis-1,3-Dichloropropene	U		0.000864	0.00319	1	09/28/2019 19:35	WG1353892
trans-1,3-Dichloropropene	U		0.00195	0.00637	1	09/28/2019 19:35	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00178	0.00637	1	09/28/2019 19:35	WG1353892
2,2-Dichloropropane	U		0.00101	0.00319	1	09/28/2019 19:35	WG1353892
Di-isopropyl ether	U		0.000446	0.00127	1	09/28/2019 19:35	WG1353892
Ethylbenzene	0.00104 J	J	0.000676	0.00319	1	09/28/2019 19:35	WG1353892
Hexachloro-1,3-butadiene	U		0.0162	0.0319	1	09/28/2019 19:35	WG1353892
2-Hexanone	U		0.0127	0.0319	1	09/28/2019 19:35	WG1353892
n-Hexane	0.0394		0.00135	0.00637	1	09/28/2019 19:35	WG1353892
Iodomethane	U		0.00771	0.0159	1	09/28/2019 19:35	WG1353892
Isopropylbenzene	U		0.00110	0.00319	1	09/28/2019 19:35	WG1353892
p-Isopropyltoluene	U		0.00297	0.00637	1	09/28/2019 19:35	WG1353892
2-Butanone (MEK)	U		0.0159	0.0319	1	09/28/2019 19:35	WG1353892
Methylene Chloride	0.0124 U	B J	0.00846	0.0319	1	09/28/2019 19:35	WG1353892 JC 11/11/19
4-Methyl-2-pentanone (MIBK)	U		0.0127	0.0319	1	09/28/2019 19:35	WG1353892

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000376	0.00127	1	09/28/2019 19:35	WG1353892
Naphthalene	U		0.00398	0.0159	1	09/28/2019 19:35	WG1353892
n-Propylbenzene	U		0.00150	0.00637	1	09/28/2019 19:35	WG1353892
Styrene	U		0.00348	0.0159	1	09/28/2019 19:35	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000637	0.00319	1	09/28/2019 19:35	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000497	0.00319	1	09/28/2019 19:35	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000860	0.00319	1	09/28/2019 19:35	WG1353892
Tetrachloroethene	0.0230		0.000892	0.00319	1	09/28/2019 19:35	WG1353892
Toluene	0.0141		0.00159	0.00637	1	09/28/2019 19:35	WG1353892
1,2,3-Trichlorobenzene	U		0.000797	0.00319	1	09/28/2019 19:35	WG1353892
1,2,4-Trichlorobenzene	U		0.00614	0.0159	1	09/28/2019 19:35	WG1353892
1,1,1-Trichloroethane	U		0.000351	0.00319	1	09/28/2019 19:35	WG1353892
1,1,2-Trichloroethane	U		0.00113	0.00319	1	09/28/2019 19:35	WG1353892
Trichloroethene	0.00875		0.000510	0.00127	1	09/28/2019 19:35	WG1353892
Trichlorofluoromethane	0.00817		0.000637	0.00319	1	09/28/2019 19:35	WG1353892
1,2,3-Trichloropropane	U		0.00650	0.0159	1	09/28/2019 19:35	WG1353892
1,2,4-Trimethylbenzene	U		0.00148	0.00637	1	09/28/2019 19:35	WG1353892
1,2,3-Trimethylbenzene	U		0.00147	0.00637	1	09/28/2019 19:35	WG1353892
1,3,5-Trimethylbenzene	U		0.00138	0.00637	1	09/28/2019 19:35	WG1353892
Vinyl acetate	U		0.00449	0.0159	1	09/28/2019 19:35	WG1353892
Vinyl chloride	U		0.000871	0.00319	1	09/28/2019 19:35	WG1353892
Xylenes, Total	0.00713 J	J	0.00609	0.00829	1	09/28/2019 19:35	WG1353892
(S) Toluene-d8	*112*			*75.0-131*		*09/28/2019 19:35*	WG1353892
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*09/28/2019 19:35*	WG1353892
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/28/2019 19:35*	WG1353892

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.1		1	09/27/2019 13:31	WG1352842

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0167	0.0305	1	09/28/2019 19:55	WG1353892
Acrylonitrile	U UJ	J0	0.00232	0.0152	1	09/28/2019 19:55	WG1353892
Benzene	U		0.000487	0.00122	1	09/28/2019 19:55	WG1353892
Bromobenzene	U		0.00128	0.0152	1	09/28/2019 19:55	WG1353892
Bromodichloromethane	U		0.000960	0.00305	1	09/28/2019 19:55	WG1353892
Bromochloromethane	U		0.00138	0.00609	1	09/28/2019 19:55	WG1353892
Bromoform	U		0.00729	0.0305	1	09/28/2019 19:55	WG1353892
Bromomethane	U		0.00451	0.0152	1	09/28/2019 19:55	WG1353892
n-Butylbenzene	U		0.00468	0.0152	1	09/28/2019 19:55	WG1353892
sec-Butylbenzene	U		0.00308	0.0152	1	09/28/2019 19:55	WG1353892
tert-Butylbenzene	U		0.00189	0.00609	1	09/28/2019 19:55	WG1353892
Carbon disulfide	U		0.00495	0.0152	1	09/28/2019 19:55	WG1353892
Carbon tetrachloride	U		0.00132	0.00609	1	09/28/2019 19:55	WG1353892
Chlorobenzene	U		0.000698	0.00305	1	09/28/2019 19:55	WG1353892
Chlorodibromomethane	U		0.000548	0.00305	1	09/28/2019 19:55	WG1353892
Chloroethane	U		0.00132	0.00609	1	09/28/2019 19:55	WG1353892
Chloroform	U		0.000506	0.00305	1	09/28/2019 19:55	WG1353892
Chloromethane	U		0.00169	0.0152	1	09/28/2019 19:55	WG1353892
2-Chlorotoluene	U		0.00112	0.00305	1	09/28/2019 19:55	WG1353892
4-Chlorotoluene	U		0.00138	0.00609	1	09/28/2019 19:55	WG1353892
1,2-Dibromo-3-Chloropropane	U		0.00621	0.0305	1	09/28/2019 19:55	WG1353892
1,2-Dibromoethane	U		0.000640	0.00305	1	09/28/2019 19:55	WG1353892
Dibromomethane	U		0.00122	0.00609	1	09/28/2019 19:55	WG1353892
1,2-Dichlorobenzene	U		0.00177	0.00609	1	09/28/2019 19:55	WG1353892
1,3-Dichlorobenzene	U		0.00207	0.00609	1	09/28/2019 19:55	WG1353892
1,4-Dichlorobenzene	U		0.00240	0.00609	1	09/28/2019 19:55	WG1353892
Dichlorodifluoromethane	U		0.000997	0.00305	1	09/28/2019 19:55	WG1353892
1,1-Dichloroethane	U		0.000701	0.00305	1	09/28/2019 19:55	WG1353892
1,2-Dichloroethane	U		0.000579	0.00305	1	09/28/2019 19:55	WG1353892
1,1-Dichloroethene	U		0.000609	0.00305	1	09/28/2019 19:55	WG1353892
cis-1,2-Dichloroethene	0.0396		0.000841	0.00305	1	09/28/2019 19:55	WG1353892
trans-1,2-Dichloroethene	U		0.00174	0.00609	1	09/28/2019 19:55	WG1353892
1,2-Dichloropropane	U		0.00155	0.00609	1	09/28/2019 19:55	WG1353892
1,1-Dichloropropene	U		0.000853	0.00305	1	09/28/2019 19:55	WG1353892
1,3-Dichloropropane	U		0.00213	0.00609	1	09/28/2019 19:55	WG1353892
cis-1,3-Dichloropropene	U		0.000826	0.00305	1	09/28/2019 19:55	WG1353892
trans-1,3-Dichloropropene	U		0.00186	0.00609	1	09/28/2019 19:55	WG1353892
trans-1,4-Dichloro-2-butene	U		0.00171	0.00609	1	09/28/2019 19:55	WG1353892
2,2-Dichloropropane	U		0.000966	0.00305	1	09/28/2019 19:55	WG1353892
Di-isopropyl ether	U		0.000426	0.00122	1	09/28/2019 19:55	WG1353892
Ethylbenzene	U		0.000646	0.00305	1	09/28/2019 19:55	WG1353892
Hexachloro-1,3-butadiene	U		0.0155	0.0305	1	09/28/2019 19:55	WG1353892
2-Hexanone	U		0.0122	0.0305	1	09/28/2019 19:55	WG1353892
n-Hexane	0.0362		0.00129	0.00609	1	09/28/2019 19:55	WG1353892
Iodomethane	U		0.00737	0.0152	1	09/28/2019 19:55	WG1353892
Isopropylbenzene	U		0.00105	0.00305	1	09/28/2019 19:55	WG1353892
p-Isopropyltoluene	U		0.00284	0.00609	1	09/28/2019 19:55	WG1353892
2-Butanone (MEK)	U		0.0152	0.0305	1	09/28/2019 19:55	WG1353892
Methylene Chloride	0.00934 U	B J	0.00809	0.0305	1	09/28/2019 19:55	WG1353892
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0305	1	09/28/2019 19:55	WG1353892

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000359	0.00122	1	09/28/2019 19:55	WG1353892
Naphthalene	U		0.00380	0.0152	1	09/28/2019 19:55	WG1353892
n-Propylbenzene	U		0.00144	0.00609	1	09/28/2019 19:55	WG1353892
Styrene	U		0.00333	0.0152	1	09/28/2019 19:55	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000609	0.00305	1	09/28/2019 19:55	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000475	0.00305	1	09/28/2019 19:55	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000823	0.00305	1	09/28/2019 19:55	WG1353892
Tetrachloroethene	U		0.000853	0.00305	1	09/28/2019 19:55	WG1353892
Toluene	0.0148		0.00152	0.00609	1	09/28/2019 19:55	WG1353892
1,2,3-Trichlorobenzene	U		0.000762	0.00305	1	09/28/2019 19:55	WG1353892
1,2,4-Trichlorobenzene	U		0.00587	0.0152	1	09/28/2019 19:55	WG1353892
1,1,1-Trichloroethane	U		0.000335	0.00305	1	09/28/2019 19:55	WG1353892
1,1,2-Trichloroethane	U		0.00108	0.00305	1	09/28/2019 19:55	WG1353892
Trichloroethene	U		0.000487	0.00122	1	09/28/2019 19:55	WG1353892
Trichlorofluoromethane	0.00749		0.000609	0.00305	1	09/28/2019 19:55	WG1353892
1,2,3-Trichloropropane	U		0.00621	0.0152	1	09/28/2019 19:55	WG1353892
1,2,4-Trimethylbenzene	U		0.00141	0.00609	1	09/28/2019 19:55	WG1353892
1,2,3-Trimethylbenzene	U		0.00140	0.00609	1	09/28/2019 19:55	WG1353892
1,3,5-Trimethylbenzene	U		0.00132	0.00609	1	09/28/2019 19:55	WG1353892
Vinyl acetate	U		0.00429	0.0152	1	09/28/2019 19:55	WG1353892
Vinyl chloride	U		0.000832	0.00305	1	09/28/2019 19:55	WG1353892
Xylenes, Total	U		0.00582	0.00792	1	09/28/2019 19:55	WG1353892
(S) Toluene-d8	*111*			*75.0-131*		*09/28/2019 19:55*	WG1353892
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/28/2019 19:55*	WG1353892
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*09/28/2019 19:55*	WG1353892

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.3		1	09/27/2019 13:31	WG1352842

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0499			0.0152	0.0277	1	09/28/2019 20:15	WG1353892
Acrylonitrile	U	UJ	J0	0.00210	0.0138	1	09/28/2019 20:15	WG1353892
Benzene	0.000448	J	J	0.000443	0.00111	1	09/28/2019 20:15	WG1353892
Bromobenzene	U			0.00116	0.0138	1	09/28/2019 20:15	WG1353892
Bromodichloromethane	U			0.000873	0.00277	1	09/28/2019 20:15	WG1353892
Bromochloromethane	U			0.00125	0.00554	1	09/28/2019 20:15	WG1353892
Bromoform	U			0.00662	0.0277	1	09/28/2019 20:15	WG1353892
Bromomethane	U			0.00410	0.0138	1	09/28/2019 20:15	WG1353892
n-Butylbenzene	U			0.00425	0.0138	1	09/28/2019 20:15	WG1353892
sec-Butylbenzene	U			0.00280	0.0138	1	09/28/2019 20:15	WG1353892
tert-Butylbenzene	U			0.00172	0.00554	1	09/28/2019 20:15	WG1353892
Carbon disulfide	U			0.00450	0.0138	1	09/28/2019 20:15	WG1353892
Carbon tetrachloride	U			0.00120	0.00554	1	09/28/2019 20:15	WG1353892
Chlorobenzene	U			0.000635	0.00277	1	09/28/2019 20:15	WG1353892
Chlorodibromomethane	U			0.000498	0.00277	1	09/28/2019 20:15	WG1353892
Chloroethane	U			0.00120	0.00554	1	09/28/2019 20:15	WG1353892
Chloroform	U			0.000460	0.00277	1	09/28/2019 20:15	WG1353892
Chloromethane	U			0.00154	0.0138	1	09/28/2019 20:15	WG1353892
2-Chlorotoluene	U			0.00102	0.00277	1	09/28/2019 20:15	WG1353892
4-Chlorotoluene	U			0.00125	0.00554	1	09/28/2019 20:15	WG1353892
1,2-Dibromo-3-Chloropropane	U			0.00565	0.0277	1	09/28/2019 20:15	WG1353892
1,2-Dibromoethane	U			0.000582	0.00277	1	09/28/2019 20:15	WG1353892
Dibromomethane	U			0.00111	0.00554	1	09/28/2019 20:15	WG1353892
1,2-Dichlorobenzene	U			0.00161	0.00554	1	09/28/2019 20:15	WG1353892
1,3-Dichlorobenzene	U			0.00188	0.00554	1	09/28/2019 20:15	WG1353892
1,4-Dichlorobenzene	U			0.00218	0.00554	1	09/28/2019 20:15	WG1353892
Dichlorodifluoromethane	U			0.000906	0.00277	1	09/28/2019 20:15	WG1353892
1,1-Dichloroethane	0.00211	J	J	0.000637	0.00277	1	09/28/2019 20:15	WG1353892
1,2-Dichloroethane	U			0.000526	0.00277	1	09/28/2019 20:15	WG1353892
1,1-Dichloroethene	0.00162	J	J	0.000554	0.00277	1	09/28/2019 20:15	WG1353892
cis-1,2-Dichloroethene	0.194			0.000764	0.00277	1	09/28/2019 20:15	WG1353892
trans-1,2-Dichloroethene	U			0.00158	0.00554	1	09/28/2019 20:15	WG1353892
1,2-Dichloropropane	U			0.00141	0.00554	1	09/28/2019 20:15	WG1353892
1,1-Dichloropropene	U			0.000775	0.00277	1	09/28/2019 20:15	WG1353892
1,3-Dichloropropane	U			0.00194	0.00554	1	09/28/2019 20:15	WG1353892
cis-1,3-Dichloropropene	U			0.000751	0.00277	1	09/28/2019 20:15	WG1353892
trans-1,3-Dichloropropene	U			0.00169	0.00554	1	09/28/2019 20:15	WG1353892
trans-1,4-Dichloro-2-butene	U			0.00155	0.00554	1	09/28/2019 20:15	WG1353892
2,2-Dichloropropane	U			0.000878	0.00277	1	09/28/2019 20:15	WG1353892
Di-isopropyl ether	U			0.000388	0.00111	1	09/28/2019 20:15	WG1353892
Ethylbenzene	U			0.000587	0.00277	1	09/28/2019 20:15	WG1353892
Hexachloro-1,3-butadiene	U			0.0141	0.0277	1	09/28/2019 20:15	WG1353892
2-Hexanone	U			0.0111	0.0277	1	09/28/2019 20:15	WG1353892
n-Hexane	0.0194			0.00117	0.00554	1	09/28/2019 20:15	WG1353892
Iodomethane	U			0.00670	0.0138	1	09/28/2019 20:15	WG1353892
Isopropylbenzene	U			0.000956	0.00277	1	09/28/2019 20:15	WG1353892
p-Isopropyltoluene	U			0.00258	0.00554	1	09/28/2019 20:15	WG1353892
2-Butanone (MEK)	U			0.0138	0.0277	1	09/28/2019 20:15	WG1353892
Methylene Chloride	0.00915	U	B J	0.00735	0.0277	1	09/28/2019 20:15	WG1353892
4-Methyl-2-pentanone (MIBK)	U			0.0111	0.0277	1	09/28/2019 20:15	WG1353892

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	09/28/2019 20:15	WG1353892
Naphthalene	U		0.00346	0.0138	1	09/28/2019 20:15	WG1353892
n-Propylbenzene	U		0.00131	0.00554	1	09/28/2019 20:15	WG1353892
Styrene	U		0.00302	0.0138	1	09/28/2019 20:15	WG1353892
1,1,1,2-Tetrachloroethane	U		0.000554	0.00277	1	09/28/2019 20:15	WG1353892
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	09/28/2019 20:15	WG1353892
1,1,2-Trichlorotrifluoroethane	U		0.000748	0.00277	1	09/28/2019 20:15	WG1353892
Tetrachloroethene	0.0181		0.000775	0.00277	1	09/28/2019 20:15	WG1353892
Toluene	0.00954		0.00138	0.00554	1	09/28/2019 20:15	WG1353892
1,2,3-Trichlorobenzene	U		0.000692	0.00277	1	09/28/2019 20:15	WG1353892
1,2,4-Trichlorobenzene	U		0.00534	0.0138	1	09/28/2019 20:15	WG1353892
1,1,1-Trichloroethane	U		0.000305	0.00277	1	09/28/2019 20:15	WG1353892
1,1,2-Trichloroethane	U		0.000978	0.00277	1	09/28/2019 20:15	WG1353892
Trichloroethene	0.00318		0.000443	0.00111	1	09/28/2019 20:15	WG1353892
Trichlorofluoromethane	0.00458		0.000554	0.00277	1	09/28/2019 20:15	WG1353892
1,2,3-Trichloropropane	U		0.00565	0.0138	1	09/28/2019 20:15	WG1353892
1,2,4-Trimethylbenzene	U		0.00128	0.00554	1	09/28/2019 20:15	WG1353892
1,2,3-Trimethylbenzene	U		0.00127	0.00554	1	09/28/2019 20:15	WG1353892
1,3,5-Trimethylbenzene	U		0.00120	0.00554	1	09/28/2019 20:15	WG1353892
Vinyl acetate	U		0.00390	0.0138	1	09/28/2019 20:15	WG1353892
Vinyl chloride	U		0.000757	0.00277	1	09/28/2019 20:15	WG1353892
Xylenes, Total	U		0.00529	0.00720	1	09/28/2019 20:15	WG1353892
(S) Toluene-d8	*112*			*75.0-131*		*09/28/2019 20:15*	WG1353892
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/28/2019 20:15*	WG1353892
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/28/2019 20:15*	WG1353892

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.3		1	09/27/2019 13:31	WG1352842

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0428		0.0167	0.0304	1	09/29/2019 00:40	WG1354017
Acrylonitrile	U	UJ J0	0.00231	0.0152	1	09/29/2019 00:40	WG1354017
Benzene	U		0.000486	0.00122	1	09/29/2019 00:40	WG1354017
Bromobenzene	U		0.00128	0.0152	1	09/29/2019 00:40	WG1354017
Bromodichloromethane	U		0.000958	0.00304	1	09/29/2019 00:40	WG1354017
Bromochloromethane	U		0.00137	0.00608	1	09/29/2019 00:40	WG1354017
Bromoform	U		0.00727	0.0304	1	09/29/2019 00:40	WG1354017
Bromomethane	U		0.00450	0.0152	1	09/29/2019 00:40	WG1354017
n-Butylbenzene	U		0.00467	0.0152	1	09/29/2019 00:40	WG1354017
sec-Butylbenzene	U		0.00308	0.0152	1	09/29/2019 00:40	WG1354017
tert-Butylbenzene	U		0.00188	0.00608	1	09/29/2019 00:40	WG1354017
Carbon disulfide	U		0.00494	0.0152	1	09/29/2019 00:40	WG1354017
Carbon tetrachloride	U		0.00131	0.00608	1	09/29/2019 00:40	WG1354017
Chlorobenzene	U		0.000696	0.00304	1	09/29/2019 00:40	WG1354017
Chlorodibromomethane	U		0.000547	0.00304	1	09/29/2019 00:40	WG1354017
Chloroethane	U		0.00131	0.00608	1	09/29/2019 00:40	WG1354017
Chloroform	U		0.000504	0.00304	1	09/29/2019 00:40	WG1354017
Chloromethane	U		0.00169	0.0152	1	09/29/2019 00:40	WG1354017
2-Chlorotoluene	U		0.00112	0.00304	1	09/29/2019 00:40	WG1354017
4-Chlorotoluene	U		0.00137	0.00608	1	09/29/2019 00:40	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00620	0.0304	1	09/29/2019 00:40	WG1354017
1,2-Dibromoethane	U		0.000638	0.00304	1	09/29/2019 00:40	WG1354017
Dibromomethane	U		0.00122	0.00608	1	09/29/2019 00:40	WG1354017
1,2-Dichlorobenzene	U		0.00176	0.00608	1	09/29/2019 00:40	WG1354017
1,3-Dichlorobenzene	U		0.00207	0.00608	1	09/29/2019 00:40	WG1354017
1,4-Dichlorobenzene	U		0.00239	0.00608	1	09/29/2019 00:40	WG1354017
Dichlorodifluoromethane	U		0.000994	0.00304	1	09/29/2019 00:40	WG1354017
1,1-Dichloroethane	U		0.000699	0.00304	1	09/29/2019 00:40	WG1354017
1,2-Dichloroethane	U		0.000577	0.00304	1	09/29/2019 00:40	WG1354017
1,1-Dichloroethene	U		0.000608	0.00304	1	09/29/2019 00:40	WG1354017
cis-1,2-Dichloroethene	0.00625		0.000839	0.00304	1	09/29/2019 00:40	WG1354017
trans-1,2-Dichloroethene	U		0.00174	0.00608	1	09/29/2019 00:40	WG1354017
1,2-Dichloropropane	U		0.00154	0.00608	1	09/29/2019 00:40	WG1354017
1,1-Dichloropropene	U		0.000851	0.00304	1	09/29/2019 00:40	WG1354017
1,3-Dichloropropane	U		0.00213	0.00608	1	09/29/2019 00:40	WG1354017
cis-1,3-Dichloropropene	U		0.000824	0.00304	1	09/29/2019 00:40	WG1354017
trans-1,3-Dichloropropene	U		0.00186	0.00608	1	09/29/2019 00:40	WG1354017
trans-1,4-Dichloro-2-butene	U		0.00170	0.00608	1	09/29/2019 00:40	WG1354017
2,2-Dichloropropane	U		0.000964	0.00304	1	09/29/2019 00:40	WG1354017
Di-isopropyl ether	U		0.000425	0.00122	1	09/29/2019 00:40	WG1354017
Ethylbenzene	U		0.000644	0.00304	1	09/29/2019 00:40	WG1354017
Hexachloro-1,3-butadiene	U		0.0154	0.0304	1	09/29/2019 00:40	WG1354017
2-Hexanone	U		0.0122	0.0304	1	09/29/2019 00:40	WG1354017
n-Hexane	0.0217	UJ J0	0.00129	0.00608	1	09/29/2019 00:40	WG1354017
Iodomethane	U		0.00735	0.0152	1	09/29/2019 00:40	WG1354017
Isopropylbenzene	U		0.00105	0.00304	1	09/29/2019 00:40	WG1354017
p-Isopropyltoluene	U		0.00283	0.00608	1	09/29/2019 00:40	WG1354017
2-Butanone (MEK)	U		0.0152	0.0304	1	09/29/2019 00:40	WG1354017
Methylene Chloride	0.0102	U B J	0.00807	0.0304	1	09/29/2019 00:40	WG1354017
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0304	1	09/29/2019 00:40	WG1354017

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000359	0.00122	1	09/29/2019 00:40	WG1354017
Naphthalene	U		0.00379	0.0152	1	09/29/2019 00:40	WG1354017
n-Propylbenzene	U		0.00143	0.00608	1	09/29/2019 00:40	WG1354017
Styrene	U		0.00332	0.0152	1	09/29/2019 00:40	WG1354017
1,1,1,2-Tetrachloroethane	U		0.000608	0.00304	1	09/29/2019 00:40	WG1354017
1,1,2,2-Tetrachloroethane	U UJ	J0	0.000474	0.00304	1	09/29/2019 00:40	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.000820	0.00304	1	09/29/2019 00:40	WG1354017
Tetrachloroethene	0.0693		0.000851	0.00304	1	09/29/2019 00:40	WG1354017
Toluene	0.00815		0.00152	0.00608	1	09/29/2019 00:40	WG1354017
1,2,3-Trichlorobenzene	U		0.000760	0.00304	1	09/29/2019 00:40	WG1354017
1,2,4-Trichlorobenzene	U		0.00586	0.0152	1	09/29/2019 00:40	WG1354017
1,1,1-Trichloroethane	U		0.000334	0.00304	1	09/29/2019 00:40	WG1354017
1,1,2-Trichloroethane	U		0.00107	0.00304	1	09/29/2019 00:40	WG1354017
Trichloroethene	0.0662		0.000486	0.00122	1	09/29/2019 00:40	WG1354017
Trichlorofluoromethane	0.00576		0.000608	0.00304	1	09/29/2019 00:40	WG1354017
1,2,3-Trichloropropane	U		0.00620	0.0152	1	09/29/2019 00:40	WG1354017
1,2,4-Trimethylbenzene	U		0.00141	0.00608	1	09/29/2019 00:40	WG1354017
1,2,3-Trimethylbenzene	U		0.00140	0.00608	1	09/29/2019 00:40	WG1354017
1,3,5-Trimethylbenzene	U		0.00131	0.00608	1	09/29/2019 00:40	WG1354017
Vinyl acetate	U UJ	J0	0.00428	0.0152	1	09/29/2019 00:40	WG1354017
Vinyl chloride	U		0.000830	0.00304	1	09/29/2019 00:40	WG1354017
Xylenes, Total	U		0.00581	0.00790	1	09/29/2019 00:40	WG1354017
(S) Toluene-d8	*114*			*75.0-131*		*09/29/2019 00:40*	WG1354017
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/29/2019 00:40*	WG1354017
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/29/2019 00:40*	WG1354017

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	83.1		1	09/27/2019 13:31	WG1352842

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0306		0.0165	0.0301	1	09/29/2019 01:00	WG1354017
Acrylonitrile	U UJ	J0	0.00229	0.0150	1	09/29/2019 01:00	WG1354017
Benzene	U		0.000481	0.00120	1	09/29/2019 01:00	WG1354017
Bromobenzene	U		0.00126	0.0150	1	09/29/2019 01:00	WG1354017
Bromodichloromethane	U		0.000948	0.00301	1	09/29/2019 01:00	WG1354017
Bromochloromethane	U		0.00136	0.00601	1	09/29/2019 01:00	WG1354017
Bromoform	U		0.00719	0.0301	1	09/29/2019 01:00	WG1354017
Bromomethane	U		0.00445	0.0150	1	09/29/2019 01:00	WG1354017
n-Butylbenzene	U		0.00462	0.0150	1	09/29/2019 01:00	WG1354017
sec-Butylbenzene	U		0.00304	0.0150	1	09/29/2019 01:00	WG1354017
tert-Butylbenzene	U		0.00186	0.00601	1	09/29/2019 01:00	WG1354017
Carbon disulfide	U		0.00488	0.0150	1	09/29/2019 01:00	WG1354017
Carbon tetrachloride	U		0.00130	0.00601	1	09/29/2019 01:00	WG1354017
Chlorobenzene	U		0.000689	0.00301	1	09/29/2019 01:00	WG1354017
Chlorodibromomethane	U		0.000541	0.00301	1	09/29/2019 01:00	WG1354017
Chloroethane	U		0.00130	0.00601	1	09/29/2019 01:00	WG1354017
Chloroform	U		0.000499	0.00301	1	09/29/2019 01:00	WG1354017
Chloromethane	U		0.00167	0.0150	1	09/29/2019 01:00	WG1354017
2-Chlorotoluene	U		0.00111	0.00301	1	09/29/2019 01:00	WG1354017
4-Chlorotoluene	U		0.00136	0.00601	1	09/29/2019 01:00	WG1354017
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00614	0.0301	1	09/29/2019 01:00	WG1354017
1,2-Dibromoethane	U		0.000632	0.00301	1	09/29/2019 01:00	WG1354017
Dibromomethane	U		0.00120	0.00601	1	09/29/2019 01:00	WG1354017
1,2-Dichlorobenzene	U		0.00174	0.00601	1	09/29/2019 01:00	WG1354017
1,3-Dichlorobenzene	U		0.00205	0.00601	1	09/29/2019 01:00	WG1354017
1,4-Dichlorobenzene	U		0.00237	0.00601	1	09/29/2019 01:00	WG1354017
Dichlorodifluoromethane	U		0.000984	0.00301	1	09/29/2019 01:00	WG1354017
1,1-Dichloroethane	U		0.000692	0.00301	1	09/29/2019 01:00	WG1354017
1,2-Dichloroethane	U		0.000571	0.00301	1	09/29/2019 01:00	WG1354017
1,1-Dichloroethene	U		0.000601	0.00301	1	09/29/2019 01:00	WG1354017
cis-1,2-Dichloroethene	0.0308		0.000830	0.00301	1	09/29/2019 01:00	WG1354017
trans-1,2-Dichloroethene	U		0.00172	0.00601	1	09/29/2019 01:00	WG1354017
1,2-Dichloropropane	U		0.00153	0.00601	1	09/29/2019 01:00	WG1354017
1,1-Dichloropropene	U		0.000842	0.00301	1	09/29/2019 01:00	WG1354017
1,3-Dichloropropane	U		0.00211	0.00601	1	09/29/2019 01:00	WG1354017
cis-1,3-Dichloropropene	U		0.000816	0.00301	1	09/29/2019 01:00	WG1354017
trans-1,3-Dichloropropene	U		0.00184	0.00601	1	09/29/2019 01:00	WG1354017
trans-1,4-Dichloro-2-butene	U		0.00168	0.00601	1	09/29/2019 01:00	WG1354017
2,2-Dichloropropane	U		0.000954	0.00301	1	09/29/2019 01:00	WG1354017
Di-isopropyl ether	U		0.000421	0.00120	1	09/29/2019 01:00	WG1354017
Ethylbenzene	U		0.000638	0.00301	1	09/29/2019 01:00	WG1354017
Hexachloro-1,3-butadiene	U		0.0153	0.0301	1	09/29/2019 01:00	WG1354017
2-Hexanone	U		0.0120	0.0301	1	09/29/2019 01:00	WG1354017
n-Hexane	0.0273 J	J0	0.00128	0.00601	1	09/29/2019 01:00	WG1354017
Iodomethane	U		0.00728	0.0150	1	09/29/2019 01:00	WG1354017
Isopropylbenzene	U		0.00104	0.00301	1	09/29/2019 01:00	WG1354017
p-Isopropyltoluene	U		0.00280	0.00601	1	09/29/2019 01:00	WG1354017
2-Butanone (MEK)	U		0.0150	0.0301	1	09/29/2019 01:00	WG1354017
Methylene Chloride	0.0113 U	B J	0.00799	0.0301	1	09/29/2019 01:00	WG1354017
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0301	1	09/29/2019 01:00	WG1354017

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000355	0.00120	1	09/29/2019 01:00	WG1354017
Naphthalene	U		0.00375	0.0150	1	09/29/2019 01:00	WG1354017
n-Propylbenzene	U		0.00142	0.00601	1	09/29/2019 01:00	WG1354017
Styrene	U		0.00328	0.0150	1	09/29/2019 01:00	WG1354017
1,1,1,2-Tetrachloroethane	U		0.000601	0.00301	1	09/29/2019 01:00	WG1354017
1,1,2,2-Tetrachloroethane	U UJ	J0	0.000469	0.00301	1	09/29/2019 01:00	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.000812	0.00301	1	09/29/2019 01:00	WG1354017
Tetrachloroethene	0.0387		0.000842	0.00301	1	09/29/2019 01:00	WG1354017
Toluene	0.0106		0.00150	0.00601	1	09/29/2019 01:00	WG1354017
1,2,3-Trichlorobenzene	U		0.000752	0.00301	1	09/29/2019 01:00	WG1354017
1,2,4-Trichlorobenzene	U		0.00580	0.0150	1	09/29/2019 01:00	WG1354017
1,1,1-Trichloroethane	U		0.000331	0.00301	1	09/29/2019 01:00	WG1354017
1,1,2-Trichloroethane	U		0.00106	0.00301	1	09/29/2019 01:00	WG1354017
Trichloroethene	0.0562		0.000481	0.00120	1	09/29/2019 01:00	WG1354017
Trichlorofluoromethane	0.00588		0.000601	0.00301	1	09/29/2019 01:00	WG1354017
1,2,3-Trichloropropane	U		0.00614	0.0150	1	09/29/2019 01:00	WG1354017
1,2,4-Trimethylbenzene	U		0.00140	0.00601	1	09/29/2019 01:00	WG1354017
1,2,3-Trimethylbenzene	U		0.00138	0.00601	1	09/29/2019 01:00	WG1354017
1,3,5-Trimethylbenzene	U		0.00130	0.00601	1	09/29/2019 01:00	WG1354017
Vinyl acetate	U UJ	J0	0.00423	0.0150	1	09/29/2019 01:00	WG1354017
Vinyl chloride	U		0.000822	0.00301	1	09/29/2019 01:00	WG1354017
Xylenes, Total	U		0.00575	0.00782	1	09/29/2019 01:00	WG1354017
(S) Toluene-d8	*114*			*75.0-131*		*09/29/2019 01:00*	WG1354017
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*09/29/2019 01:00*	WG1354017
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/29/2019 01:00*	WG1354017

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.8		1	09/27/2019 13:31	WG1352842

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0439		0.0172	0.0313	1	09/29/2019 01:21	WG1354017
Acrylonitrile	U	UJ J0	0.00238	0.0157	1	09/29/2019 01:21	WG1354017
Benzene	U		0.000501	0.00125	1	09/29/2019 01:21	WG1354017
Bromobenzene	U		0.00132	0.0157	1	09/29/2019 01:21	WG1354017
Bromodichloromethane	U		0.000988	0.00313	1	09/29/2019 01:21	WG1354017
Bromochloromethane	U		0.00142	0.00627	1	09/29/2019 01:21	WG1354017
Bromoform	U		0.00749	0.0313	1	09/29/2019 01:21	WG1354017
Bromomethane	U		0.00464	0.0157	1	09/29/2019 01:21	WG1354017
n-Butylbenzene	U		0.00481	0.0157	1	09/29/2019 01:21	WG1354017
sec-Butylbenzene	U		0.00317	0.0157	1	09/29/2019 01:21	WG1354017
tert-Butylbenzene	U		0.00194	0.00627	1	09/29/2019 01:21	WG1354017
Carbon disulfide	U		0.00509	0.0157	1	09/29/2019 01:21	WG1354017
Carbon tetrachloride	U		0.00135	0.00627	1	09/29/2019 01:21	WG1354017
Chlorobenzene	U		0.000718	0.00313	1	09/29/2019 01:21	WG1354017
Chlorodibromomethane	U		0.000564	0.00313	1	09/29/2019 01:21	WG1354017
Chloroethane	U		0.00135	0.00627	1	09/29/2019 01:21	WG1354017
Chloroform	U		0.000520	0.00313	1	09/29/2019 01:21	WG1354017
Chloromethane	U		0.00174	0.0157	1	09/29/2019 01:21	WG1354017
2-Chlorotoluene	U		0.00115	0.00313	1	09/29/2019 01:21	WG1354017
4-Chlorotoluene	U		0.00142	0.00627	1	09/29/2019 01:21	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00639	0.0313	1	09/29/2019 01:21	WG1354017
1,2-Dibromoethane	U		0.000658	0.00313	1	09/29/2019 01:21	WG1354017
Dibromomethane	U		0.00125	0.00627	1	09/29/2019 01:21	WG1354017
1,2-Dichlorobenzene	U		0.00182	0.00627	1	09/29/2019 01:21	WG1354017
1,3-Dichlorobenzene	U		0.00213	0.00627	1	09/29/2019 01:21	WG1354017
1,4-Dichlorobenzene	U		0.00247	0.00627	1	09/29/2019 01:21	WG1354017
Dichlorodifluoromethane	U		0.00103	0.00313	1	09/29/2019 01:21	WG1354017
1,1-Dichloroethane	U		0.000721	0.00313	1	09/29/2019 01:21	WG1354017
1,2-Dichloroethane	U		0.000595	0.00313	1	09/29/2019 01:21	WG1354017
1,1-Dichloroethene	U		0.000627	0.00313	1	09/29/2019 01:21	WG1354017
cis-1,2-Dichloroethene	0.0434		0.000865	0.00313	1	09/29/2019 01:21	WG1354017
trans-1,2-Dichloroethene	U		0.00179	0.00627	1	09/29/2019 01:21	WG1354017
1,2-Dichloropropane	U		0.00159	0.00627	1	09/29/2019 01:21	WG1354017
1,1-Dichloropropene	U		0.000877	0.00313	1	09/29/2019 01:21	WG1354017
1,3-Dichloropropane	U		0.00219	0.00627	1	09/29/2019 01:21	WG1354017
cis-1,3-Dichloropropene	U		0.000850	0.00313	1	09/29/2019 01:21	WG1354017
trans-1,3-Dichloropropene	U		0.00192	0.00627	1	09/29/2019 01:21	WG1354017
trans-1,4-Dichloro-2-butene	U		0.00175	0.00627	1	09/29/2019 01:21	WG1354017
2,2-Dichloropropane	U		0.000994	0.00313	1	09/29/2019 01:21	WG1354017
Di-isopropyl ether	U		0.000439	0.00125	1	09/29/2019 01:21	WG1354017
Ethylbenzene	U		0.000664	0.00313	1	09/29/2019 01:21	WG1354017
Hexachloro-1,3-butadiene	U		0.0159	0.0313	1	09/29/2019 01:21	WG1354017
2-Hexanone	U		0.0125	0.0313	1	09/29/2019 01:21	WG1354017
n-Hexane	0.0305	J J0	0.00133	0.00627	1	09/29/2019 01:21	WG1354017
Iodomethane	U		0.00758	0.0157	1	09/29/2019 01:21	WG1354017
Isopropylbenzene	U		0.00108	0.00313	1	09/29/2019 01:21	WG1354017
p-Isopropyltoluene	U		0.00292	0.00627	1	09/29/2019 01:21	WG1354017
2-Butanone (MEK)	U		0.0157	0.0313	1	09/29/2019 01:21	WG1354017
Methylene Chloride	0.0135	U B J	0.00832	0.0313	1	09/29/2019 01:21	WG1354017
4-Methyl-2-pentanone (MIBK)	U		0.0125	0.0313	1	09/29/2019 01:21	WG1354017

JC 11/11/19

MW-2006-70

Collected date/time: 09/18/19 10:00

SAMPLE RESULTS - 18

L1141869

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000370	0.00125	1	09/29/2019 01:21	WG1354017
Naphthalene	U		0.00391	0.0157	1	09/29/2019 01:21	WG1354017
n-Propylbenzene	U		0.00148	0.00627	1	09/29/2019 01:21	WG1354017
Styrene	U		0.00342	0.0157	1	09/29/2019 01:21	WG1354017
1,1,1,2-Tetrachloroethane	U		0.000627	0.00313	1	09/29/2019 01:21	WG1354017
1,1,2,2-Tetrachloroethane	U UJ	J0	0.000489	0.00313	1	09/29/2019 01:21	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.000846	0.00313	1	09/29/2019 01:21	WG1354017
Tetrachloroethene	0.000894 J	J	0.000877	0.00313	1	09/29/2019 01:21	WG1354017
Toluene	0.0128		0.00157	0.00627	1	09/29/2019 01:21	WG1354017
1,2,3-Trichlorobenzene	U		0.000783	0.00313	1	09/29/2019 01:21	WG1354017
1,2,4-Trichlorobenzene	U		0.00604	0.0157	1	09/29/2019 01:21	WG1354017
1,1,1-Trichloroethane	U		0.000345	0.00313	1	09/29/2019 01:21	WG1354017
1,1,2-Trichloroethane	U		0.00111	0.00313	1	09/29/2019 01:21	WG1354017
Trichloroethene	U		0.000501	0.00125	1	09/29/2019 01:21	WG1354017
Trichlorofluoromethane	0.00788		0.000627	0.00313	1	09/29/2019 01:21	WG1354017
1,2,3-Trichloropropane	U		0.00639	0.0157	1	09/29/2019 01:21	WG1354017
1,2,4-Trimethylbenzene	U		0.00145	0.00627	1	09/29/2019 01:21	WG1354017
1,2,3-Trimethylbenzene	U		0.00144	0.00627	1	09/29/2019 01:21	WG1354017
1,3,5-Trimethylbenzene	U		0.00135	0.00627	1	09/29/2019 01:21	WG1354017
Vinyl acetate	U UJ	J0	0.00441	0.0157	1	09/29/2019 01:21	WG1354017
Vinyl chloride	U		0.000856	0.00313	1	09/29/2019 01:21	WG1354017
Xylenes, Total	U		0.00599	0.00815	1	09/29/2019 01:21	WG1354017
(S) Toluene-d8	*110*			*75.0-131*		*09/29/2019 01:21*	WG1354017
(S) 4-Bromofluorobenzene	*99.0*			*67.0-138*		*09/29/2019 01:21*	WG1354017
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/29/2019 01:21*	WG1354017

JC 11/11/19

SAMPLE RESULTS - 01

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	83.5		1	09/27/2019 13:17	WG1352844

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Acetone	0.0791			0.0164	0.0299	1	09/29/2019 01:41	WG1354017
Acrylonitrile	U	UJ	J0	0.00227	0.0150	1	09/29/2019 01:41	WG1354017
Benzene	0.000644	J	J	0.000479	0.00120	1	09/29/2019 01:41	WG1354017
Bromobenzene	U			0.00126	0.0150	1	09/29/2019 01:41	WG1354017
Bromodichloromethane	U			0.000943	0.00299	1	09/29/2019 01:41	WG1354017
Bromochloromethane	U			0.00135	0.00599	1	09/29/2019 01:41	WG1354017
Bromoform	U			0.00716	0.0299	1	09/29/2019 01:41	WG1354017
Bromomethane	U			0.00443	0.0150	1	09/29/2019 01:41	WG1354017
n-Butylbenzene	U			0.00460	0.0150	1	09/29/2019 01:41	WG1354017
sec-Butylbenzene	U			0.00303	0.0150	1	09/29/2019 01:41	WG1354017
tert-Butylbenzene	U			0.00186	0.00599	1	09/29/2019 01:41	WG1354017
Carbon disulfide	U			0.00486	0.0150	1	09/29/2019 01:41	WG1354017
Carbon tetrachloride	U			0.00129	0.00599	1	09/29/2019 01:41	WG1354017
Chlorobenzene	U			0.000686	0.00299	1	09/29/2019 01:41	WG1354017
Chlorodibromomethane	U			0.000539	0.00299	1	09/29/2019 01:41	WG1354017
Chloroethane	U			0.00129	0.00599	1	09/29/2019 01:41	WG1354017
Chloroform	U			0.000497	0.00299	1	09/29/2019 01:41	WG1354017
Chloromethane	U			0.00166	0.0150	1	09/29/2019 01:41	WG1354017
2-Chlorotoluene	U			0.00110	0.00299	1	09/29/2019 01:41	WG1354017
4-Chlorotoluene	U			0.00135	0.00599	1	09/29/2019 01:41	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00610	0.0299	1	09/29/2019 01:41	WG1354017
1,2-Dibromoethane	U			0.000628	0.00299	1	09/29/2019 01:41	WG1354017
Dibromomethane	U			0.00120	0.00599	1	09/29/2019 01:41	WG1354017
1,2-Dichlorobenzene	U			0.00174	0.00599	1	09/29/2019 01:41	WG1354017
1,3-Dichlorobenzene	U			0.00203	0.00599	1	09/29/2019 01:41	WG1354017
1,4-Dichlorobenzene	U			0.00236	0.00599	1	09/29/2019 01:41	WG1354017
Dichlorodifluoromethane	U			0.000979	0.00299	1	09/29/2019 01:41	WG1354017
1,1-Dichloroethane	U			0.000688	0.00299	1	09/29/2019 01:41	WG1354017
1,2-Dichloroethane	U			0.000569	0.00299	1	09/29/2019 01:41	WG1354017
1,1-Dichloroethene	U			0.000599	0.00299	1	09/29/2019 01:41	WG1354017
cis-1,2-Dichloroethene	U			0.000826	0.00299	1	09/29/2019 01:41	WG1354017
trans-1,2-Dichloroethene	U			0.00171	0.00599	1	09/29/2019 01:41	WG1354017
1,2-Dichloropropane	U			0.00152	0.00599	1	09/29/2019 01:41	WG1354017
1,1-Dichloropropene	U			0.000838	0.00299	1	09/29/2019 01:41	WG1354017
1,3-Dichloropropane	U			0.00209	0.00599	1	09/29/2019 01:41	WG1354017
cis-1,3-Dichloropropene	U			0.000812	0.00299	1	09/29/2019 01:41	WG1354017
trans-1,3-Dichloropropene	U			0.00183	0.00599	1	09/29/2019 01:41	WG1354017
trans-1,4-Dichloro-2-butene	U			0.00168	0.00599	1	09/29/2019 01:41	WG1354017
2,2-Dichloropropane	U			0.000949	0.00299	1	09/29/2019 01:41	WG1354017
Di-isopropyl ether	U			0.000419	0.00120	1	09/29/2019 01:41	WG1354017
Ethylbenzene	U			0.000634	0.00299	1	09/29/2019 01:41	WG1354017
Hexachloro-1,3-butadiene	U			0.0152	0.0299	1	09/29/2019 01:41	WG1354017
2-Hexanone	U			0.0120	0.0299	1	09/29/2019 01:41	WG1354017
n-Hexane	0.00436	J	J J0	0.00127	0.00599	1	09/29/2019 01:41	WG1354017
Iodomethane	U			0.00724	0.0150	1	09/29/2019 01:41	WG1354017
Isopropylbenzene	U			0.00103	0.00299	1	09/29/2019 01:41	WG1354017
p-Isopropyltoluene	U			0.00279	0.00599	1	09/29/2019 01:41	WG1354017
2-Butanone (MEK)	U			0.0150	0.0299	1	09/29/2019 01:41	WG1354017
Methylene Chloride	0.0128	U	B J	0.00795	0.0299	1	09/29/2019 01:41	WG1354017
4-Methyl-2-pentanone (MIBK)	U			0.0120	0.0299	1	09/29/2019 01:41	WG1354017

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)		Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg			mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U			0.000353	0.00120	1	09/29/2019 01:41	WG1354017
Naphthalene	0.00453	J	J	0.00373	0.0150	1	09/29/2019 01:41	WG1354017
n-Propylbenzene	U			0.00141	0.00599	1	09/29/2019 01:41	WG1354017
Styrene	U			0.00327	0.0150	1	09/29/2019 01:41	WG1354017
1,1,1,2-Tetrachloroethane	U			0.000599	0.00299	1	09/29/2019 01:41	WG1354017
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.000467	0.00299	1	09/29/2019 01:41	WG1354017
1,1,2-Trichlorotrifluoroethane	U			0.000808	0.00299	1	09/29/2019 01:41	WG1354017
Tetrachloroethene	0.00286	J	J	0.000838	0.00299	1	09/29/2019 01:41	WG1354017
Toluene	0.00756			0.00150	0.00599	1	09/29/2019 01:41	WG1354017
1,2,3-Trichlorobenzene	U			0.000748	0.00299	1	09/29/2019 01:41	WG1354017
1,2,4-Trichlorobenzene	U			0.00577	0.0150	1	09/29/2019 01:41	WG1354017
1,1,1-Trichloroethane	U			0.000329	0.00299	1	09/29/2019 01:41	WG1354017
1,1,2-Trichloroethane	U			0.00106	0.00299	1	09/29/2019 01:41	WG1354017
Trichloroethene	U			0.000479	0.00120	1	09/29/2019 01:41	WG1354017
Trichlorofluoromethane	U			0.000599	0.00299	1	09/29/2019 01:41	WG1354017
1,2,3-Trichloropropane	U			0.00610	0.0150	1	09/29/2019 01:41	WG1354017
1,2,4-Trimethylbenzene	U			0.00139	0.00599	1	09/29/2019 01:41	WG1354017
1,2,3-Trimethylbenzene	0.00172	J	J	0.00138	0.00599	1	09/29/2019 01:41	WG1354017
1,3,5-Trimethylbenzene	U			0.00129	0.00599	1	09/29/2019 01:41	WG1354017
Vinyl acetate	U	UJ	J0	0.00421	0.0150	1	09/29/2019 01:41	WG1354017
Vinyl chloride	U			0.000818	0.00299	1	09/29/2019 01:41	WG1354017
Xylenes, Total	U			0.00572	0.00778	1	09/29/2019 01:41	WG1354017
(S) Toluene-d8	*112*				*75.0-131*		*09/29/2019 01:41*	WG1354017
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/29/2019 01:41*	WG1354017
(S) 1,2-Dichloroethane-d4	*105*				*70.0-130*		*09/29/2019 01:41*	WG1354017

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.9		1	09/27/2019 13:17	WG1352844

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0194	J	J	0.0158	0.0288	1	09/29/2019 02:01	WG1354017
Acrylonitrile	U	UJ	J0	0.00219	0.0144	1	09/29/2019 02:01	WG1354017
Benzene	U			0.000460	0.00115	1	09/29/2019 02:01	WG1354017
Bromobenzene	U			0.00121	0.0144	1	09/29/2019 02:01	WG1354017
Bromodichloromethane	U			0.000907	0.00288	1	09/29/2019 02:01	WG1354017
Bromochloromethane	U			0.00130	0.00576	1	09/29/2019 02:01	WG1354017
Bromoform	U			0.00688	0.0288	1	09/29/2019 02:01	WG1354017
Bromomethane	U			0.00426	0.0144	1	09/29/2019 02:01	WG1354017
n-Butylbenzene	U			0.00442	0.0144	1	09/29/2019 02:01	WG1354017
sec-Butylbenzene	U			0.00291	0.0144	1	09/29/2019 02:01	WG1354017
tert-Butylbenzene	U			0.00178	0.00576	1	09/29/2019 02:01	WG1354017
Carbon disulfide	U			0.00467	0.0144	1	09/29/2019 02:01	WG1354017
Carbon tetrachloride	U			0.00124	0.00576	1	09/29/2019 02:01	WG1354017
Chlorobenzene	U			0.000660	0.00288	1	09/29/2019 02:01	WG1354017
Chlorodibromomethane	U			0.000518	0.00288	1	09/29/2019 02:01	WG1354017
Chloroethane	U			0.00124	0.00576	1	09/29/2019 02:01	WG1354017
Chloroform	U			0.000478	0.00288	1	09/29/2019 02:01	WG1354017
Chloromethane	U			0.00160	0.0144	1	09/29/2019 02:01	WG1354017
2-Chlorotoluene	U			0.00106	0.00288	1	09/29/2019 02:01	WG1354017
4-Chlorotoluene	U			0.00130	0.00576	1	09/29/2019 02:01	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00587	0.0288	1	09/29/2019 02:01	WG1354017
1,2-Dibromoethane	U			0.000604	0.00288	1	09/29/2019 02:01	WG1354017
Dibromomethane	U			0.00115	0.00576	1	09/29/2019 02:01	WG1354017
1,2-Dichlorobenzene	U			0.00167	0.00576	1	09/29/2019 02:01	WG1354017
1,3-Dichlorobenzene	U			0.00196	0.00576	1	09/29/2019 02:01	WG1354017
1,4-Dichlorobenzene	U			0.00227	0.00576	1	09/29/2019 02:01	WG1354017
Dichlorodifluoromethane	U			0.000942	0.00288	1	09/29/2019 02:01	WG1354017
1,1-Dichloroethane	U			0.000662	0.00288	1	09/29/2019 02:01	WG1354017
1,2-Dichloroethane	U			0.000547	0.00288	1	09/29/2019 02:01	WG1354017
1,1-Dichloroethene	U			0.000576	0.00288	1	09/29/2019 02:01	WG1354017
cis-1,2-Dichloroethene	U			0.000794	0.00288	1	09/29/2019 02:01	WG1354017
trans-1,2-Dichloroethene	U			0.00165	0.00576	1	09/29/2019 02:01	WG1354017
1,2-Dichloropropane	U			0.00146	0.00576	1	09/29/2019 02:01	WG1354017
1,1-Dichloropropene	U			0.000806	0.00288	1	09/29/2019 02:01	WG1354017
1,3-Dichloropropane	U			0.00201	0.00576	1	09/29/2019 02:01	WG1354017
cis-1,3-Dichloropropene	U			0.000780	0.00288	1	09/29/2019 02:01	WG1354017
trans-1,3-Dichloropropene	U			0.00176	0.00576	1	09/29/2019 02:01	WG1354017
trans-1,4-Dichloro-2-butene	U			0.00161	0.00576	1	09/29/2019 02:01	WG1354017
2,2-Dichloropropane	U			0.000913	0.00288	1	09/29/2019 02:01	WG1354017
Di-isopropyl ether	U			0.000403	0.00115	1	09/29/2019 02:01	WG1354017
Ethylbenzene	U			0.000610	0.00288	1	09/29/2019 02:01	WG1354017
Hexachloro-1,3-butadiene	U			0.0146	0.0288	1	09/29/2019 02:01	WG1354017
2-Hexanone	U			0.0115	0.0288	1	09/29/2019 02:01	WG1354017
n-Hexane	0.00437	J	J J0	0.00122	0.00576	1	09/29/2019 02:01	WG1354017
Iodomethane	U			0.00696	0.0144	1	09/29/2019 02:01	WG1354017
Isopropylbenzene	U			0.000993	0.00288	1	09/29/2019 02:01	WG1354017
p-Isopropyltoluene	U			0.00268	0.00576	1	09/29/2019 02:01	WG1354017
2-Butanone (MEK)	U			0.0144	0.0288	1	09/29/2019 02:01	WG1354017
Methylene Chloride	0.0113	U	B J	0.00764	0.0288	1	09/29/2019 02:01	WG1354017
4-Methyl-2-pentanone (MIBK)	U			0.0115	0.0288	1	09/29/2019 02:01	WG1354017

JC 11/11/19

MW-311-10

SAMPLE RESULTS - 02

Collected date/time: 09/18/19 09:43

L1141887

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000340	0.00115	1	09/29/2019 02:01	WG1354017
Naphthalene	U		0.00359	0.0144	1	09/29/2019 02:01	WG1354017
n-Propylbenzene	U		0.00136	0.00576	1	09/29/2019 02:01	WG1354017
Styrene	U		0.00314	0.0144	1	09/29/2019 02:01	WG1354017
1,1,1,2-Tetrachloroethane	U		0.000576	0.00288	1	09/29/2019 02:01	WG1354017
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000449	0.00288	1	09/29/2019 02:01	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.000777	0.00288	1	09/29/2019 02:01	WG1354017
Tetrachloroethene	U		0.000806	0.00288	1	09/29/2019 02:01	WG1354017
Toluene	0.00875		0.00144	0.00576	1	09/29/2019 02:01	WG1354017
1,2,3-Trichlorobenzene	U		0.000719	0.00288	1	09/29/2019 02:01	WG1354017
1,2,4-Trichlorobenzene	U		0.00555	0.0144	1	09/29/2019 02:01	WG1354017
1,1,1-Trichloroethane	U		0.000317	0.00288	1	09/29/2019 02:01	WG1354017
1,1,2-Trichloroethane	U		0.00102	0.00288	1	09/29/2019 02:01	WG1354017
Trichloroethene	U		0.000460	0.00115	1	09/29/2019 02:01	WG1354017
Trichlorofluoromethane	U		0.000576	0.00288	1	09/29/2019 02:01	WG1354017
1,2,3-Trichloropropane	U		0.00587	0.0144	1	09/29/2019 02:01	WG1354017
1,2,4-Trimethylbenzene	U		0.00134	0.00576	1	09/29/2019 02:01	WG1354017
1,2,3-Trimethylbenzene	U		0.00132	0.00576	1	09/29/2019 02:01	WG1354017
1,3,5-Trimethylbenzene	U		0.00124	0.00576	1	09/29/2019 02:01	WG1354017
Vinyl acetate	U	UJ J0	0.00405	0.0144	1	09/29/2019 02:01	WG1354017
Vinyl chloride	U		0.000786	0.00288	1	09/29/2019 02:01	WG1354017
Xylenes, Total	U		0.00550	0.00748	1	09/29/2019 02:01	WG1354017
(S) Toluene-d8	*114*			*75.0-131*		*09/29/2019 02:01*	WG1354017
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*		*09/29/2019 02:01*	WG1354017
(S) 1,2-Dichloroethane-d4	*97.6*			*70.0-130*		*09/29/2019 02:01*	WG1354017

JC 11/11/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.5		1	09/27/2019 13:17	WG1352844

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0509 J	J	0.0368	0.0671	2	09/29/2019 02:22	WG1354017	
Acrylonitrile	U UJ	J0	0.00510	0.0335	2	09/29/2019 02:22	WG1354017	
Benzene	U		0.00107	0.00268	2	09/29/2019 02:22	WG1354017	
Bromobenzene	U		0.00282	0.0335	2	09/29/2019 02:22	WG1354017	
Bromodichloromethane	U		0.00212	0.00671	2	09/29/2019 02:22	WG1354017	
Bromochloromethane	U		0.00303	0.0134	2	09/29/2019 02:22	WG1354017	
Bromoform	U		0.0161	0.0671	2	09/29/2019 02:22	WG1354017	
Bromomethane	U		0.00993	0.0335	2	09/29/2019 02:22	WG1354017	
n-Butylbenzene	U		0.0103	0.0335	2	09/29/2019 02:22	WG1354017	
sec-Butylbenzene	U		0.00679	0.0335	2	09/29/2019 02:22	WG1354017	
tert-Butylbenzene	U		0.00416	0.0134	2	09/29/2019 02:22	WG1354017	
Carbon disulfide	U		0.0109	0.0335	2	09/29/2019 02:22	WG1354017	
Carbon tetrachloride	U		0.00290	0.0134	2	09/29/2019 02:22	WG1354017	
Chlorobenzene	U		0.00154	0.00671	2	09/29/2019 02:22	WG1354017	
Chlorodibromomethane	U		0.00121	0.00671	2	09/29/2019 02:22	WG1354017	
Chloroethane	U		0.00290	0.0134	2	09/29/2019 02:22	WG1354017	
Chloroform	U		0.00111	0.00671	2	09/29/2019 02:22	WG1354017	
Chloromethane	U		0.00373	0.0335	2	09/29/2019 02:22	WG1354017	
2-Chlorotoluene	U		0.00247	0.00671	2	09/29/2019 02:22	WG1354017	
4-Chlorotoluene	U		0.00303	0.0134	2	09/29/2019 02:22	WG1354017	
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.0137	0.0671	2	09/29/2019 02:22	WG1354017	
1,2-Dibromoethane	U		0.00141	0.00671	2	09/29/2019 02:22	WG1354017	
Dibromomethane	U		0.00268	0.0134	2	09/29/2019 02:22	WG1354017	
1,2-Dichlorobenzene	U		0.00389	0.0134	2	09/29/2019 02:22	WG1354017	
1,3-Dichlorobenzene	U		0.00456	0.0134	2	09/29/2019 02:22	WG1354017	
1,4-Dichlorobenzene	U		0.00529	0.0134	2	09/29/2019 02:22	WG1354017	
Dichlorodifluoromethane	U		0.00220	0.00671	2	09/29/2019 02:22	WG1354017	
1,1-Dichloroethane	U		0.00154	0.00671	2	09/29/2019 02:22	WG1354017	
1,2-Dichloroethane	U		0.00127	0.00671	2	09/29/2019 02:22	WG1354017	
1,1-Dichloroethene	U		0.00134	0.00671	2	09/29/2019 02:22	WG1354017	
cis-1,2-Dichloroethene	U		0.00185	0.00671	2	09/29/2019 02:22	WG1354017	
trans-1,2-Dichloroethene	U		0.00384	0.0134	2	09/29/2019 02:22	WG1354017	
1,2-Dichloropropane	U		0.00341	0.0134	2	09/29/2019 02:22	WG1354017	
1,1-Dichloropropene	U		0.00188	0.00671	2	09/29/2019 02:22	WG1354017	
1,3-Dichloropropane	U		0.00470	0.0134	2	09/29/2019 02:22	WG1354017	
cis-1,3-Dichloropropene	U		0.00182	0.00671	2	09/29/2019 02:22	WG1354017	
trans-1,3-Dichloropropene	U		0.00411	0.0134	2	09/29/2019 02:22	WG1354017	
trans-1,4-Dichloro-2-butene	U		0.00376	0.0134	2	09/29/2019 02:22	WG1354017	
2,2-Dichloropropane	U		0.00213	0.00671	2	09/29/2019 02:22	WG1354017	
Di-isopropyl ether	U		0.000939	0.00268	2	09/29/2019 02:22	WG1354017	
Ethylbenzene	U		0.00142	0.00671	2	09/29/2019 02:22	WG1354017	
Hexachloro-1,3-butadiene	U		0.0341	0.0671	2	09/29/2019 02:22	WG1354017	
2-Hexanone	U		0.0268	0.0671	2	09/29/2019 02:22	WG1354017	
n-Hexane	U UJ	J0	0.00284	0.0134	2	09/29/2019 02:22	WG1354017	
Iodomethane	U		0.0162	0.0335	2	09/29/2019 02:22	WG1354017	
Isopropylbenzene	U		0.00232	0.00671	2	09/29/2019 02:22	WG1354017	
p-Isopropyltoluene	U		0.00625	0.0134	2	09/29/2019 02:22	WG1354017	JC 11/11/19
2-Butanone (MEK)	U		0.0335	0.0671	2	09/29/2019 02:22	WG1354017	
Methylene Chloride	0.0273 U	B J	0.0178	0.0671	2	09/29/2019 02:22	WG1354017	
4-Methyl-2-pentanone (MIBK)	U		0.0268	0.0671	2	09/29/2019 02:22	WG1354017	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000792	0.00268	2	09/29/2019 02:22	WG1354017
Naphthalene	U		0.00837	0.0335	2	09/29/2019 02:22	WG1354017
n-Propylbenzene	U		0.00317	0.0134	2	09/29/2019 02:22	WG1354017
Styrene	U		0.00733	0.0335	2	09/29/2019 02:22	WG1354017
1,1,1,2-Tetrachloroethane	U		0.00134	0.00671	2	09/29/2019 02:22	WG1354017
1,1,2,2-Tetrachloroethane	U	UJ J0	0.00105	0.00671	2	09/29/2019 02:22	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.00181	0.00671	2	09/29/2019 02:22	WG1354017
Tetrachloroethene	U		0.00188	0.00671	2	09/29/2019 02:22	WG1354017
Toluene	0.0223		0.00335	0.0134	2	09/29/2019 02:22	WG1354017
1,2,3-Trichlorobenzene	U		0.00168	0.00671	2	09/29/2019 02:22	WG1354017
1,2,4-Trichlorobenzene	U		0.0129	0.0335	2	09/29/2019 02:22	WG1354017
1,1,1-Trichloroethane	U		0.000738	0.00671	2	09/29/2019 02:22	WG1354017
1,1,2-Trichloroethane	U		0.00237	0.00671	2	09/29/2019 02:22	WG1354017
Trichloroethene	U		0.00107	0.00268	2	09/29/2019 02:22	WG1354017
Trichlorofluoromethane	U		0.00134	0.00671	2	09/29/2019 02:22	WG1354017
1,2,3-Trichloropropane	U		0.0137	0.0335	2	09/29/2019 02:22	WG1354017
1,2,4-Trimethylbenzene	U		0.00311	0.0134	2	09/29/2019 02:22	WG1354017
1,2,3-Trimethylbenzene	U		0.00309	0.0134	2	09/29/2019 02:22	WG1354017
1,3,5-Trimethylbenzene	U		0.00290	0.0134	2	09/29/2019 02:22	WG1354017
Vinyl acetate	U	UJ J0	0.00945	0.0335	2	09/29/2019 02:22	WG1354017
Vinyl chloride	U		0.00184	0.00671	2	09/29/2019 02:22	WG1354017
Xylenes, Total	U		0.0128	0.0174	2	09/29/2019 02:22	WG1354017
(S) Toluene-d8	*112*			*75.0-131*		*09/29/2019 02:22*	WG1354017
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/29/2019 02:22*	WG1354017
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/29/2019 02:22*	WG1354017

Sample Narrative:

L1141887-03 WG1354017: Dilution due to limited sample volume.

JC 11/11/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.6		1	09/27/2019 13:17	WG1352844

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0986			0.0383	0.0700	2.06	09/29/2019 02:42	WG1354017
Acrylonitrile	U	UJ	J0	0.00531	0.0350	2.06	09/29/2019 02:42	WG1354017
Benzene	U			0.00112	0.00280	2.06	09/29/2019 02:42	WG1354017
Bromobenzene	U			0.00293	0.0350	2.06	09/29/2019 02:42	WG1354017
Bromodichloromethane	U			0.00220	0.00700	2.06	09/29/2019 02:42	WG1354017
Bromochloromethane	U			0.00317	0.0140	2.06	09/29/2019 02:42	WG1354017
Bromoform	U			0.0167	0.0700	2.06	09/29/2019 02:42	WG1354017
Bromomethane	U			0.0104	0.0350	2.06	09/29/2019 02:42	WG1354017
n-Butylbenzene	U			0.0107	0.0350	2.06	09/29/2019 02:42	WG1354017
sec-Butylbenzene	U			0.00708	0.0350	2.06	09/29/2019 02:42	WG1354017
tert-Butylbenzene	U			0.00433	0.0140	2.06	09/29/2019 02:42	WG1354017
Carbon disulfide	U			0.0114	0.0350	2.06	09/29/2019 02:42	WG1354017
Carbon tetrachloride	U			0.00302	0.0140	2.06	09/29/2019 02:42	WG1354017
Chlorobenzene	U			0.00160	0.00700	2.06	09/29/2019 02:42	WG1354017
Chlorodibromomethane	U			0.00126	0.00700	2.06	09/29/2019 02:42	WG1354017
Chloroethane	U			0.00302	0.0140	2.06	09/29/2019 02:42	WG1354017
Chloroform	U			0.00116	0.00700	2.06	09/29/2019 02:42	WG1354017
Chloromethane	U			0.00389	0.0350	2.06	09/29/2019 02:42	WG1354017
2-Chlorotoluene	U			0.00258	0.00700	2.06	09/29/2019 02:42	WG1354017
4-Chlorotoluene	U			0.00317	0.0140	2.06	09/29/2019 02:42	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.0143	0.0700	2.06	09/29/2019 02:42	WG1354017
1,2-Dibromoethane	U			0.00147	0.00700	2.06	09/29/2019 02:42	WG1354017
Dibromomethane	U			0.00280	0.0140	2.06	09/29/2019 02:42	WG1354017
1,2-Dichlorobenzene	U			0.00406	0.0140	2.06	09/29/2019 02:42	WG1354017
1,3-Dichlorobenzene	U			0.00476	0.0140	2.06	09/29/2019 02:42	WG1354017
1,4-Dichlorobenzene	U			0.00552	0.0140	2.06	09/29/2019 02:42	WG1354017
Dichlorodifluoromethane	U			0.00228	0.00700	2.06	09/29/2019 02:42	WG1354017
1,1-Dichloroethane	U			0.00160	0.00700	2.06	09/29/2019 02:42	WG1354017
1,2-Dichloroethane	U			0.00133	0.00700	2.06	09/29/2019 02:42	WG1354017
1,1-Dichloroethene	U			0.00140	0.00700	2.06	09/29/2019 02:42	WG1354017
cis-1,2-Dichloroethene	U			0.00193	0.00700	2.06	09/29/2019 02:42	WG1354017
trans-1,2-Dichloroethene	U			0.00399	0.0140	2.06	09/29/2019 02:42	WG1354017
1,2-Dichloropropane	U			0.00356	0.0140	2.06	09/29/2019 02:42	WG1354017
1,1-Dichloropropene	U			0.00196	0.00700	2.06	09/29/2019 02:42	WG1354017
1,3-Dichloropropane	U			0.00489	0.0140	2.06	09/29/2019 02:42	WG1354017
cis-1,3-Dichloropropene	U			0.00190	0.00700	2.06	09/29/2019 02:42	WG1354017
trans-1,3-Dichloropropene	U			0.00428	0.0140	2.06	09/29/2019 02:42	WG1354017
trans-1,4-Dichloro-2-butene	U			0.00391	0.0140	2.06	09/29/2019 02:42	WG1354017
2,2-Dichloropropane	U			0.00221	0.00700	2.06	09/29/2019 02:42	WG1354017
Di-isopropyl ether	U			0.000980	0.00280	2.06	09/29/2019 02:42	WG1354017
Ethylbenzene	U			0.00148	0.00700	2.06	09/29/2019 02:42	WG1354017
Hexachloro-1,3-butadiene	U			0.0356	0.0700	2.06	09/29/2019 02:42	WG1354017
2-Hexanone	U			0.0280	0.0700	2.06	09/29/2019 02:42	WG1354017
n-Hexane	0.0118	J	J J0	0.00296	0.0140	2.06	09/29/2019 02:42	WG1354017
Iodomethane	U			0.0170	0.0350	2.06	09/29/2019 02:42	WG1354017
Isopropylbenzene	U			0.00242	0.00700	2.06	09/29/2019 02:42	WG1354017
p-Isopropyltoluene	0.00774	J	J	0.00652	0.0140	2.06	09/29/2019 02:42	WG1354017
2-Butanone (MEK)	U			0.0351	0.0700	2.06	09/29/2019 02:42	WG1354017
Methylene Chloride	0.0263	U	B J	0.0186	0.0700	2.06	09/29/2019 02:42	WG1354017
4-Methyl-2-pentanone (MIBK)	U			0.0280	0.0700	2.06	09/29/2019 02:42	WG1354017

JC 11/11/19

MW-311-20

Collected date/time: 09/18/19 09:50

SAMPLE RESULTS - 04

L1141887

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000826	0.00280	2.06	09/29/2019 02:42	WG1354017
Naphthalene	U		0.00874	0.0350	2.06	09/29/2019 02:42	WG1354017
n-Propylbenzene	U		0.00330	0.0140	2.06	09/29/2019 02:42	WG1354017
Styrene	U		0.00764	0.0350	2.06	09/29/2019 02:42	WG1354017
1,1,1,2-Tetrachloroethane	U		0.00140	0.00700	2.06	09/29/2019 02:42	WG1354017
1,1,2,2-Tetrachloroethane	U	UJ J0	0.00109	0.00700	2.06	09/29/2019 02:42	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.00189	0.00700	2.06	09/29/2019 02:42	WG1354017
Tetrachloroethene	U		0.00196	0.00700	2.06	09/29/2019 02:42	WG1354017
Toluene	0.0469		0.00351	0.0140	2.06	09/29/2019 02:42	WG1354017
1,2,3-Trichlorobenzene	U		0.00175	0.00700	2.06	09/29/2019 02:42	WG1354017
1,2,4-Trichlorobenzene	U		0.0135	0.0350	2.06	09/29/2019 02:42	WG1354017
1,1,1-Trichloroethane	U		0.000769	0.00700	2.06	09/29/2019 02:42	WG1354017
1,1,2-Trichloroethane	U		0.00247	0.00700	2.06	09/29/2019 02:42	WG1354017
Trichloroethene	U		0.00112	0.00280	2.06	09/29/2019 02:42	WG1354017
Trichlorofluoromethane	U		0.00140	0.00700	2.06	09/29/2019 02:42	WG1354017
1,2,3-Trichloropropane	U		0.0143	0.0350	2.06	09/29/2019 02:42	WG1354017
1,2,4-Trimethylbenzene	U		0.00325	0.0140	2.06	09/29/2019 02:42	WG1354017
1,2,3-Trimethylbenzene	U		0.00322	0.0140	2.06	09/29/2019 02:42	WG1354017
1,3,5-Trimethylbenzene	U		0.00302	0.0140	2.06	09/29/2019 02:42	WG1354017
Vinyl acetate	U	UJ J0	0.00985	0.0350	2.06	09/29/2019 02:42	WG1354017
Vinyl chloride	U		0.00192	0.00700	2.06	09/29/2019 02:42	WG1354017
Xylenes, Total	U		0.0134	0.0182	2.06	09/29/2019 02:42	WG1354017
(S) Toluene-d8	*113*			*75.0-131*		*09/29/2019 02:42*	WG1354017
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*		*09/29/2019 02:42*	WG1354017
(S) 1,2-Dichloroethane-d4	*98.7*			*70.0-130*		*09/29/2019 02:42*	WG1354017

Sample Narrative:

L1141887-04 WG1354017: Dilution due to limited sample volume.

JC 11/11/19

MW-311-25
Collected date/time: 09/18/19 10:00

SAMPLE RESULTS - 05

L1141887

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.5		1	09/27/2019 13:17	WG1352844

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.138		0.0680	0.124	4	09/29/2019 03:03	WG1354017
Acrylonitrile	U	UJ J0	0.00944	0.0621	4	09/29/2019 03:03	WG1354017
Benzene	U		0.00199	0.00497	4	09/29/2019 03:03	WG1354017
Bromobenzene	U		0.00522	0.0621	4	09/29/2019 03:03	WG1354017
Bromodichloromethane	U		0.00391	0.0124	4	09/29/2019 03:03	WG1354017
Bromochloromethane	U		0.00561	0.0248	4	09/29/2019 03:03	WG1354017
Bromoform	U		0.0297	0.124	4	09/29/2019 03:03	WG1354017
Bromomethane	U		0.0184	0.0621	4	09/29/2019 03:03	WG1354017
n-Butylbenzene	U		0.0191	0.0621	4	09/29/2019 03:03	WG1354017
sec-Butylbenzene	U		0.0125	0.0621	4	09/29/2019 03:03	WG1354017
tert-Butylbenzene	U		0.00770	0.0248	4	09/29/2019 03:03	WG1354017
Carbon disulfide	U		0.0201	0.0621	4	09/29/2019 03:03	WG1354017
Carbon tetrachloride	U		0.00536	0.0248	4	09/29/2019 03:03	WG1354017
Chlorobenzene	U		0.00284	0.0124	4	09/29/2019 03:03	WG1354017
Chlorodibromomethane	U		0.00224	0.0124	4	09/29/2019 03:03	WG1354017
Chloroethane	U		0.00536	0.0248	4	09/29/2019 03:03	WG1354017
Chloroform	U		0.00206	0.0124	4	09/29/2019 03:03	WG1354017
Chloromethane	U		0.00690	0.0621	4	09/29/2019 03:03	WG1354017
2-Chlorotoluene	U		0.00457	0.0124	4	09/29/2019 03:03	WG1354017
4-Chlorotoluene	U		0.00561	0.0248	4	09/29/2019 03:03	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.0253	0.124	4	09/29/2019 03:03	WG1354017
1,2-Dibromoethane	U		0.00261	0.0124	4	09/29/2019 03:03	WG1354017
Dibromomethane	U		0.00497	0.0248	4	09/29/2019 03:03	WG1354017
1,2-Dichlorobenzene	U		0.00720	0.0248	4	09/29/2019 03:03	WG1354017
1,3-Dichlorobenzene	U		0.00844	0.0248	4	09/29/2019 03:03	WG1354017
1,4-Dichlorobenzene	U		0.00979	0.0248	4	09/29/2019 03:03	WG1354017
Dichlorodifluoromethane	U		0.00406	0.0124	4	09/29/2019 03:03	WG1354017
1,1-Dichloroethane	U		0.00286	0.0124	4	09/29/2019 03:03	WG1354017
1,2-Dichloroethane	U		0.00236	0.0124	4	09/29/2019 03:03	WG1354017
1,1-Dichloroethene	U		0.00248	0.0124	4	09/29/2019 03:03	WG1354017
cis-1,2-Dichloroethene	U		0.00343	0.0124	4	09/29/2019 03:03	WG1354017
trans-1,2-Dichloroethene	U		0.00710	0.0248	4	09/29/2019 03:03	WG1354017
1,2-Dichloropropane	U		0.00631	0.0248	4	09/29/2019 03:03	WG1354017
1,1-Dichloropropene	U		0.00348	0.0124	4	09/29/2019 03:03	WG1354017
1,3-Dichloropropane	U		0.00869	0.0248	4	09/29/2019 03:03	WG1354017
cis-1,3-Dichloropropene	U		0.00337	0.0124	4	09/29/2019 03:03	WG1354017
trans-1,3-Dichloropropene	U		0.00760	0.0248	4	09/29/2019 03:03	WG1354017
trans-1,4-Dichloro-2-butene	U		0.00695	0.0248	4	09/29/2019 03:03	WG1354017
2,2-Dichloropropane	U		0.00394	0.0124	4	09/29/2019 03:03	WG1354017
Di-isopropyl ether	U		0.00174	0.00497	4	09/29/2019 03:03	WG1354017
Ethylbenzene	0.00620	J J	0.00263	0.0124	4	09/29/2019 03:03	WG1354017
Hexachloro-1,3-butadiene	U		0.0631	0.124	4	09/29/2019 03:03	WG1354017
2-Hexanone	U		0.0497	0.124	4	09/29/2019 03:03	WG1354017
n-Hexane	U	UJ J0	0.00527	0.0248	4	09/29/2019 03:03	WG1354017
Iodomethane	U		0.0301	0.0621	4	09/29/2019 03:03	WG1354017
Isopropylbenzene	U		0.00428	0.0124	4	09/29/2019 03:03	WG1354017
p-Isopropyltoluene	U		0.0116	0.0248	4	09/29/2019 03:03	WG1354017
2-Butanone (MEK)	U		0.0621	0.124	4	09/29/2019 03:03	WG1354017
Methylene Chloride	0.0517	U B J	0.0330	0.124	4	09/29/2019 03:03	WG1354017
4-Methyl-2-pentanone (MIBK)	U		0.0497	0.124	4	09/29/2019 03:03	WG1354017

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00147	0.00497	4	09/29/2019 03:03	WG1354017
Naphthalene	U		0.0155	0.0621	4	09/29/2019 03:03	WG1354017
n-Propylbenzene	U		0.00586	0.0248	4	09/29/2019 03:03	WG1354017
Styrene	U		0.0135	0.0621	4	09/29/2019 03:03	WG1354017
1,1,1,2-Tetrachloroethane	U		0.00248	0.0124	4	09/29/2019 03:03	WG1354017
1,1,2,2-Tetrachloroethane	U	UJ J0	0.00194	0.0124	4	09/29/2019 03:03	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.00335	0.0124	4	09/29/2019 03:03	WG1354017
Tetrachloroethene	U		0.00348	0.0124	4	09/29/2019 03:03	WG1354017
Toluene	0.196		0.00621	0.0248	4	09/29/2019 03:03	WG1354017
1,2,3-Trichlorobenzene	U		0.00310	0.0124	4	09/29/2019 03:03	WG1354017
1,2,4-Trichlorobenzene	U		0.0240	0.0621	4	09/29/2019 03:03	WG1354017
1,1,1-Trichloroethane	U		0.00137	0.0124	4	09/29/2019 03:03	WG1354017
1,1,2-Trichloroethane	U		0.00438	0.0124	4	09/29/2019 03:03	WG1354017
Trichloroethene	U		0.00199	0.00497	4	09/29/2019 03:03	WG1354017
Trichlorofluoromethane	U		0.00248	0.0124	4	09/29/2019 03:03	WG1354017
1,2,3-Trichloropropane	U		0.0253	0.0621	4	09/29/2019 03:03	WG1354017
1,2,4-Trimethylbenzene	U		0.00576	0.0248	4	09/29/2019 03:03	WG1354017
1,2,3-Trimethylbenzene	U		0.00571	0.0248	4	09/29/2019 03:03	WG1354017
1,3,5-Trimethylbenzene	U		0.00536	0.0248	4	09/29/2019 03:03	WG1354017
Vinyl acetate	U	UJ J0	0.0175	0.0621	4	09/29/2019 03:03	WG1354017
Vinyl chloride	U		0.00339	0.0124	4	09/29/2019 03:03	WG1354017
Xylenes, Total	U		0.0237	0.0323	4	09/29/2019 03:03	WG1354017
(S) Toluene-d8	*111*			*75.0-131*		*09/29/2019 03:03*	WG1354017
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/29/2019 03:03*	WG1354017
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/29/2019 03:03*	WG1354017

Sample Narrative:

L1141887-05 WG1354017: Dilution due to limited sample volume.

JC 11/11/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.5		1	09/27/2019 13:17	WG1352844

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0360	0.0656	2.27	09/29/2019 03:23	WG1354017
Acrylonitrile	U UJ	J0	0.00498	0.0328	2.27	09/29/2019 03:23	WG1354017
Benzene	U		0.00105	0.00263	2.27	09/29/2019 03:23	WG1354017
Bromobenzene	U		0.00275	0.0328	2.27	09/29/2019 03:23	WG1354017
Bromodichloromethane	U		0.00207	0.00656	2.27	09/29/2019 03:23	WG1354017
Bromochloromethane	U		0.00296	0.0131	2.27	09/29/2019 03:23	WG1354017
Bromoform	U		0.0157	0.0656	2.27	09/29/2019 03:23	WG1354017
Bromomethane	U		0.00972	0.0328	2.27	09/29/2019 03:23	WG1354017
n-Butylbenzene	U		0.0101	0.0328	2.27	09/29/2019 03:23	WG1354017
sec-Butylbenzene	U		0.00664	0.0328	2.27	09/29/2019 03:23	WG1354017
tert-Butylbenzene	U		0.00407	0.0131	2.27	09/29/2019 03:23	WG1354017
Carbon disulfide	U		0.0107	0.0328	2.27	09/29/2019 03:23	WG1354017
Carbon tetrachloride	U		0.00283	0.0131	2.27	09/29/2019 03:23	WG1354017
Chlorobenzene	U		0.00150	0.00656	2.27	09/29/2019 03:23	WG1354017
Chlorodibromomethane	U		0.00118	0.00656	2.27	09/29/2019 03:23	WG1354017
Chloroethane	U		0.00283	0.0131	2.27	09/29/2019 03:23	WG1354017
Chloroform	U		0.00109	0.00656	2.27	09/29/2019 03:23	WG1354017
Chloromethane	U		0.00365	0.0328	2.27	09/29/2019 03:23	WG1354017
2-Chlorotoluene	U		0.00242	0.00656	2.27	09/29/2019 03:23	WG1354017
4-Chlorotoluene	U		0.00296	0.0131	2.27	09/29/2019 03:23	WG1354017
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.0134	0.0656	2.27	09/29/2019 03:23	WG1354017
1,2-Dibromoethane	U		0.00138	0.00656	2.27	09/29/2019 03:23	WG1354017
Dibromomethane	U		0.00263	0.0131	2.27	09/29/2019 03:23	WG1354017
1,2-Dichlorobenzene	U		0.00381	0.0131	2.27	09/29/2019 03:23	WG1354017
1,3-Dichlorobenzene	U		0.00446	0.0131	2.27	09/29/2019 03:23	WG1354017
1,4-Dichlorobenzene	U		0.00517	0.0131	2.27	09/29/2019 03:23	WG1354017
Dichlorodifluoromethane	U		0.00215	0.00656	2.27	09/29/2019 03:23	WG1354017
1,1-Dichloroethane	U		0.00150	0.00656	2.27	09/29/2019 03:23	WG1354017
1,2-Dichloroethane	U		0.00125	0.00656	2.27	09/29/2019 03:23	WG1354017
1,1-Dichloroethene	U		0.00132	0.00656	2.27	09/29/2019 03:23	WG1354017
cis-1,2-Dichloroethene	U		0.00182	0.00656	2.27	09/29/2019 03:23	WG1354017
trans-1,2-Dichloroethene	U		0.00376	0.0131	2.27	09/29/2019 03:23	WG1354017
1,2-Dichloropropane	U		0.00333	0.0131	2.27	09/29/2019 03:23	WG1354017
1,1-Dichloropropene	U		0.00184	0.00656	2.27	09/29/2019 03:23	WG1354017
1,3-Dichloropropane	U		0.00459	0.0131	2.27	09/29/2019 03:23	WG1354017
cis-1,3-Dichloropropene	U		0.00178	0.00656	2.27	09/29/2019 03:23	WG1354017
trans-1,3-Dichloropropene	U		0.00401	0.0131	2.27	09/29/2019 03:23	WG1354017
trans-1,4-Dichloro-2-butene	U		0.00368	0.0131	2.27	09/29/2019 03:23	WG1354017
2,2-Dichloropropane	U		0.00208	0.00656	2.27	09/29/2019 03:23	WG1354017
Di-isopropyl ether	U		0.000918	0.00263	2.27	09/29/2019 03:23	WG1354017
Ethylbenzene	0.00392 J	J	0.00139	0.00656	2.27	09/29/2019 03:23	WG1354017
Hexachloro-1,3-butadiene	U		0.0333	0.0656	2.27	09/29/2019 03:23	WG1354017
2-Hexanone	U		0.0263	0.0656	2.27	09/29/2019 03:23	WG1354017
n-Hexane	U UJ	J0	0.00279	0.0131	2.27	09/29/2019 03:23	WG1354017
Iodomethane	U		0.0158	0.0328	2.27	09/29/2019 03:23	WG1354017
Isopropylbenzene	U		0.00227	0.00656	2.27	09/29/2019 03:23	WG1354017
p-Isopropyltoluene	U		0.00612	0.0131	2.27	09/29/2019 03:23	WG1354017
2-Butanone (MEK)	U		0.0328	0.0656	2.27	09/29/2019 03:23	WG1354017
Methylene Chloride	0.0284 U	B J	0.0175	0.0656	2.27	09/29/2019 03:23	WG1354017
4-Methyl-2-pentanone (MIBK)	U		0.0263	0.0656	2.27	09/29/2019 03:23	WG1354017

JC 11/11/19

MW-311-30

Collected date/time: 09/18/19 10:05

SAMPLE RESULTS - 06

L1141887

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000775	0.00263	2.27	09/29/2019 03:23	WG1354017
Naphthalene	U		0.00819	0.0328	2.27	09/29/2019 03:23	WG1354017
n-Propylbenzene	U		0.00310	0.0131	2.27	09/29/2019 03:23	WG1354017
Styrene	U		0.00717	0.0328	2.27	09/29/2019 03:23	WG1354017
1,1,1,2-Tetrachloroethane	U		0.00132	0.00656	2.27	09/29/2019 03:23	WG1354017
1,1,2,2-Tetrachloroethane	U UJ	J0	0.00102	0.00656	2.27	09/29/2019 03:23	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.00177	0.00656	2.27	09/29/2019 03:23	WG1354017
Tetrachloroethene	U		0.00184	0.00656	2.27	09/29/2019 03:23	WG1354017
Toluene	0.0804		0.00328	0.0131	2.27	09/29/2019 03:23	WG1354017
1,2,3-Trichlorobenzene	U		0.00164	0.00656	2.27	09/29/2019 03:23	WG1354017
1,2,4-Trichlorobenzene	U		0.0126	0.0328	2.27	09/29/2019 03:23	WG1354017
1,1,1-Trichloroethane	U		0.000722	0.00656	2.27	09/29/2019 03:23	WG1354017
1,1,2-Trichloroethane	U		0.00231	0.00656	2.27	09/29/2019 03:23	WG1354017
Trichloroethene	U		0.00105	0.00263	2.27	09/29/2019 03:23	WG1354017
Trichlorofluoromethane	U		0.00132	0.00656	2.27	09/29/2019 03:23	WG1354017
1,2,3-Trichloropropane	U		0.0134	0.0328	2.27	09/29/2019 03:23	WG1354017
1,2,4-Trimethylbenzene	U		0.00304	0.0131	2.27	09/29/2019 03:23	WG1354017
1,2,3-Trimethylbenzene	U		0.00302	0.0131	2.27	09/29/2019 03:23	WG1354017
1,3,5-Trimethylbenzene	U		0.00283	0.0131	2.27	09/29/2019 03:23	WG1354017
Vinyl acetate	U UJ	J0	0.00924	0.0328	2.27	09/29/2019 03:23	WG1354017
Vinyl chloride	U		0.00179	0.00656	2.27	09/29/2019 03:23	WG1354017
Xylenes, Total	0.0180		0.0125	0.0171	2.27	09/29/2019 03:23	WG1354017
(S) Toluene-d8	*112*			*75.0-131*		*09/29/2019 03:23*	WG1354017
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*09/29/2019 03:23*	WG1354017
(S) 1,2-Dichloroethane-d4	*98.1*			*70.0-130*		*09/29/2019 03:23*	WG1354017

Sample Narrative:

L1141887-06 WG1354017: Dilution due to limited sample volume.

JC 11/11/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	09/27/2019 13:17	WG1352844

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0793		0.0320	0.0583	2	09/29/2019 03:43	WG1354017
Acrylonitrile	U	UJ J0	0.00443	0.0292	2	09/29/2019 03:43	WG1354017
Benzene	U		0.000933	0.00233	2	09/29/2019 03:43	WG1354017
Bromobenzene	U		0.00245	0.0292	2	09/29/2019 03:43	WG1354017
Bromodichloromethane	U		0.00184	0.00583	2	09/29/2019 03:43	WG1354017
Bromochloromethane	U		0.00264	0.0117	2	09/29/2019 03:43	WG1354017
Bromoform	U		0.0140	0.0583	2	09/29/2019 03:43	WG1354017
Bromomethane	U		0.00863	0.0292	2	09/29/2019 03:43	WG1354017
n-Butylbenzene	U		0.00896	0.0292	2	09/29/2019 03:43	WG1354017
sec-Butylbenzene	U		0.00590	0.0292	2	09/29/2019 03:43	WG1354017
tert-Butylbenzene	U		0.00362	0.0117	2	09/29/2019 03:43	WG1354017
Carbon disulfide	U		0.00947	0.0292	2	09/29/2019 03:43	WG1354017
Carbon tetrachloride	U		0.00252	0.0117	2	09/29/2019 03:43	WG1354017
Chlorobenzene	U		0.00134	0.00583	2	09/29/2019 03:43	WG1354017
Chlorodibromomethane	U		0.00105	0.00583	2	09/29/2019 03:43	WG1354017
Chloroethane	U		0.00252	0.0117	2	09/29/2019 03:43	WG1354017
Chloroform	U		0.000968	0.00583	2	09/29/2019 03:43	WG1354017
Chloromethane	U		0.00324	0.0292	2	09/29/2019 03:43	WG1354017
2-Chlorotoluene	U		0.00215	0.00583	2	09/29/2019 03:43	WG1354017
4-Chlorotoluene	U		0.00264	0.0117	2	09/29/2019 03:43	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.0119	0.0583	2	09/29/2019 03:43	WG1354017
1,2-Dibromoethane	U		0.00122	0.00583	2	09/29/2019 03:43	WG1354017
Dibromomethane	U		0.00233	0.0117	2	09/29/2019 03:43	WG1354017
1,2-Dichlorobenzene	U		0.00338	0.0117	2	09/29/2019 03:43	WG1354017
1,3-Dichlorobenzene	U		0.00397	0.0117	2	09/29/2019 03:43	WG1354017
1,4-Dichlorobenzene	U		0.00460	0.0117	2	09/29/2019 03:43	WG1354017
Dichlorodifluoromethane	U		0.00191	0.00583	2	09/29/2019 03:43	WG1354017
1,1-Dichloroethane	U		0.00134	0.00583	2	09/29/2019 03:43	WG1354017
1,2-Dichloroethane	U		0.00111	0.00583	2	09/29/2019 03:43	WG1354017
1,1-Dichloroethene	U		0.00117	0.00583	2	09/29/2019 03:43	WG1354017
cis-1,2-Dichloroethene	U		0.00161	0.00583	2	09/29/2019 03:43	WG1354017
trans-1,2-Dichloroethene	U		0.00334	0.0117	2	09/29/2019 03:43	WG1354017
1,2-Dichloropropane	U		0.00296	0.0117	2	09/29/2019 03:43	WG1354017
1,1-Dichloropropene	U		0.00163	0.00583	2	09/29/2019 03:43	WG1354017
1,3-Dichloropropane	U		0.00408	0.0117	2	09/29/2019 03:43	WG1354017
cis-1,3-Dichloropropene	U		0.00159	0.00583	2	09/29/2019 03:43	WG1354017
trans-1,3-Dichloropropene	U		0.00357	0.0117	2	09/29/2019 03:43	WG1354017
trans-1,4-Dichloro-2-butene	U		0.00327	0.0117	2	09/29/2019 03:43	WG1354017
2,2-Dichloropropane	U		0.00185	0.00583	2	09/29/2019 03:43	WG1354017
Di-isopropyl ether	U		0.000816	0.00233	2	09/29/2019 03:43	WG1354017
Ethylbenzene	0.00252	J J	0.00124	0.00583	2	09/29/2019 03:43	WG1354017
Hexachloro-1,3-butadiene	U		0.0296	0.0583	2	09/29/2019 03:43	WG1354017
2-Hexanone	U		0.0233	0.0583	2	09/29/2019 03:43	WG1354017
n-Hexane	U	UJ J0	0.00247	0.0117	2	09/29/2019 03:43	WG1354017
Iodomethane	U		0.0141	0.0292	2	09/29/2019 03:43	WG1354017
Isopropylbenzene	U		0.00202	0.00583	2	09/29/2019 03:43	WG1354017
p-Isopropyltoluene	U		0.00544	0.0117	2	09/29/2019 03:43	WG1354017
2-Butanone (MEK)	U		0.0292	0.0583	2	09/29/2019 03:43	WG1354017
Methylene Chloride	0.0250	U B J	0.0155	0.0583	2	09/29/2019 03:43	WG1354017
4-Methyl-2-pentanone (MIBK)	U		0.0233	0.0583	2	09/29/2019 03:43	WG1354017

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000688	0.00233	2	09/29/2019 03:43	WG1354017
Naphthalene	U		0.00728	0.0292	2	09/29/2019 03:43	WG1354017
n-Propylbenzene	U		0.00275	0.0117	2	09/29/2019 03:43	WG1354017
Styrene	U		0.00637	0.0292	2	09/29/2019 03:43	WG1354017
1,1,1,2-Tetrachloroethane	U		0.00117	0.00583	2	09/29/2019 03:43	WG1354017
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000910	0.00583	2	09/29/2019 03:43	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.00157	0.00583	2	09/29/2019 03:43	WG1354017
Tetrachloroethene	U		0.00163	0.00583	2	09/29/2019 03:43	WG1354017
Toluene	0.0325		0.00292	0.0117	2	09/29/2019 03:43	WG1354017
1,2,3-Trichlorobenzene	U		0.00146	0.00583	2	09/29/2019 03:43	WG1354017
1,2,4-Trichlorobenzene	U		0.0112	0.0292	2	09/29/2019 03:43	WG1354017
1,1,1-Trichloroethane	U		0.000642	0.00583	2	09/29/2019 03:43	WG1354017
1,1,2-Trichloroethane	U		0.00206	0.00583	2	09/29/2019 03:43	WG1354017
Trichloroethene	U		0.000933	0.00233	2	09/29/2019 03:43	WG1354017
Trichlorofluoromethane	U		0.00117	0.00583	2	09/29/2019 03:43	WG1354017
1,2,3-Trichloropropane	U		0.0119	0.0292	2	09/29/2019 03:43	WG1354017
1,2,4-Trimethylbenzene	U		0.00271	0.0117	2	09/29/2019 03:43	WG1354017
1,2,3-Trimethylbenzene	U		0.00268	0.0117	2	09/29/2019 03:43	WG1354017
1,3,5-Trimethylbenzene	U		0.00252	0.0117	2	09/29/2019 03:43	WG1354017
Vinyl acetate	U	UJ J0	0.00821	0.0292	2	09/29/2019 03:43	WG1354017
Vinyl chloride	U		0.00160	0.00583	2	09/29/2019 03:43	WG1354017
Xylenes, Total	U		0.0112	0.0152	2	09/29/2019 03:43	WG1354017
(S) Toluene-d8	*109*			*75.0-131*		*09/29/2019 03:43*	WG1354017
(S) 4-Bromofluorobenzene	*98.7*			*67.0-138*		*09/29/2019 03:43*	WG1354017
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/29/2019 03:43*	WG1354017

Sample Narrative:

L1141887-07 WG1354017: Dilution due to limited sample volume.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.3		1	09/27/2019 13:17	WG1352844

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0604		0.0161	0.0293	1	09/29/2019 04:04	WG1354017
Acrylonitrile	U	UJ J0	0.00223	0.0146	1	09/29/2019 04:04	WG1354017
Benzene	0.000752	J J	0.000469	0.00117	1	09/29/2019 04:04	WG1354017
Bromobenzene	U		0.00123	0.0146	1	09/29/2019 04:04	WG1354017
Bromodichloromethane	U		0.000924	0.00293	1	09/29/2019 04:04	WG1354017
Bromochloromethane	U		0.00132	0.00586	1	09/29/2019 04:04	WG1354017
Bromoform	U		0.00701	0.0293	1	09/29/2019 04:04	WG1354017
Bromomethane	U		0.00434	0.0146	1	09/29/2019 04:04	WG1354017
n-Butylbenzene	U		0.00450	0.0146	1	09/29/2019 04:04	WG1354017
sec-Butylbenzene	U		0.00297	0.0146	1	09/29/2019 04:04	WG1354017
tert-Butylbenzene	U		0.00182	0.00586	1	09/29/2019 04:04	WG1354017
Carbon disulfide	U		0.00476	0.0146	1	09/29/2019 04:04	WG1354017
Carbon tetrachloride	U		0.00127	0.00586	1	09/29/2019 04:04	WG1354017
Chlorobenzene	U		0.000672	0.00293	1	09/29/2019 04:04	WG1354017
Chlorodibromomethane	U		0.000527	0.00293	1	09/29/2019 04:04	WG1354017
Chloroethane	U		0.00127	0.00586	1	09/29/2019 04:04	WG1354017
Chloroform	U		0.000486	0.00293	1	09/29/2019 04:04	WG1354017
Chloromethane	U		0.00163	0.0146	1	09/29/2019 04:04	WG1354017
2-Chlorotoluene	U		0.00108	0.00293	1	09/29/2019 04:04	WG1354017
4-Chlorotoluene	U		0.00132	0.00586	1	09/29/2019 04:04	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00598	0.0293	1	09/29/2019 04:04	WG1354017
1,2-Dibromoethane	U		0.000615	0.00293	1	09/29/2019 04:04	WG1354017
Dibromomethane	U		0.00117	0.00586	1	09/29/2019 04:04	WG1354017
1,2-Dichlorobenzene	U		0.00170	0.00586	1	09/29/2019 04:04	WG1354017
1,3-Dichlorobenzene	U		0.00199	0.00586	1	09/29/2019 04:04	WG1354017
1,4-Dichlorobenzene	U		0.00231	0.00586	1	09/29/2019 04:04	WG1354017
Dichlorodifluoromethane	U		0.000959	0.00293	1	09/29/2019 04:04	WG1354017
1,1-Dichloroethane	U		0.000674	0.00293	1	09/29/2019 04:04	WG1354017
1,2-Dichloroethane	U		0.000557	0.00293	1	09/29/2019 04:04	WG1354017
1,1-Dichloroethene	U		0.000586	0.00293	1	09/29/2019 04:04	WG1354017
cis-1,2-Dichloroethene	0.00613		0.000809	0.00293	1	09/29/2019 04:04	WG1354017
trans-1,2-Dichloroethene	U		0.00168	0.00586	1	09/29/2019 04:04	WG1354017
1,2-Dichloropropane	U		0.00149	0.00586	1	09/29/2019 04:04	WG1354017
1,1-Dichloropropene	U		0.000820	0.00293	1	09/29/2019 04:04	WG1354017
1,3-Dichloropropane	U		0.00205	0.00586	1	09/29/2019 04:04	WG1354017
cis-1,3-Dichloropropene	U		0.000795	0.00293	1	09/29/2019 04:04	WG1354017
trans-1,3-Dichloropropene	U		0.00179	0.00586	1	09/29/2019 04:04	WG1354017
trans-1,4-Dichloro-2-butene	U		0.00164	0.00586	1	09/29/2019 04:04	WG1354017
2,2-Dichloropropane	U		0.000929	0.00293	1	09/29/2019 04:04	WG1354017
Di-isopropyl ether	U		0.000410	0.00117	1	09/29/2019 04:04	WG1354017
Ethylbenzene	0.000683	J J	0.000621	0.00293	1	09/29/2019 04:04	WG1354017
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1	09/29/2019 04:04	WG1354017
2-Hexanone	U		0.0117	0.0293	1	09/29/2019 04:04	WG1354017
n-Hexane	0.00799	J J0	0.00124	0.00586	1	09/29/2019 04:04	WG1354017
Iodomethane	U		0.00709	0.0146	1	09/29/2019 04:04	WG1354017
Isopropylbenzene	U		0.00101	0.00293	1	09/29/2019 04:04	WG1354017
p-Isopropyltoluene	U		0.00273	0.00586	1	09/29/2019 04:04	WG1354017
2-Butanone (MEK)	U		0.0146	0.0293	1	09/29/2019 04:04	WG1354017
Methylene Chloride	0.0153	U B J	0.00778	0.0293	1	09/29/2019 04:04	WG1354017
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1	09/29/2019 04:04	WG1354017

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000346	0.00117	1	09/29/2019 04:04	WG1354017
Naphthalene	U			0.00366	0.0146	1	09/29/2019 04:04	WG1354017
n-Propylbenzene	U			0.00138	0.00586	1	09/29/2019 04:04	WG1354017
Styrene	U			0.00320	0.0146	1	09/29/2019 04:04	WG1354017
1,1,1,2-Tetrachloroethane	U			0.000586	0.00293	1	09/29/2019 04:04	WG1354017
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.000457	0.00293	1	09/29/2019 04:04	WG1354017
1,1,2-Trichlorotrifluoroethane	U			0.000791	0.00293	1	09/29/2019 04:04	WG1354017
Tetrachloroethene	0.00251	J	J	0.000820	0.00293	1	09/29/2019 04:04	WG1354017
Toluene	0.0152			0.00146	0.00586	1	09/29/2019 04:04	WG1354017
1,2,3-Trichlorobenzene	U			0.000732	0.00293	1	09/29/2019 04:04	WG1354017
1,2,4-Trichlorobenzene	U			0.00565	0.0146	1	09/29/2019 04:04	WG1354017
1,1,1-Trichloroethane	U			0.000322	0.00293	1	09/29/2019 04:04	WG1354017
1,1,2-Trichloroethane	U			0.00103	0.00293	1	09/29/2019 04:04	WG1354017
Trichloroethene	0.00304			0.000469	0.00117	1	09/29/2019 04:04	WG1354017
Trichlorofluoromethane	U			0.000586	0.00293	1	09/29/2019 04:04	WG1354017
1,2,3-Trichloropropane	U			0.00598	0.0146	1	09/29/2019 04:04	WG1354017
1,2,4-Trimethylbenzene	U			0.00136	0.00586	1	09/29/2019 04:04	WG1354017
1,2,3-Trimethylbenzene	U			0.00135	0.00586	1	09/29/2019 04:04	WG1354017
1,3,5-Trimethylbenzene	U			0.00127	0.00586	1	09/29/2019 04:04	WG1354017
Vinyl acetate	U	UJ	J0	0.00413	0.0146	1	09/29/2019 04:04	WG1354017
Vinyl chloride	U			0.000800	0.00293	1	09/29/2019 04:04	WG1354017
Xylenes, Total	U			0.00560	0.00762	1	09/29/2019 04:04	WG1354017
(S) Toluene-d8	*111*				*75.0-131*		*09/29/2019 04:04*	WG1354017
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/29/2019 04:04*	WG1354017
(S) 1,2-Dichloroethane-d4	*103*				*70.0-130*		*09/29/2019 04:04*	WG1354017

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.7		1	09/27/2019 13:17	WG1352844

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0437			0.0172	0.0314	1	09/29/2019 04:24	WG1354017
Acrylonitrile	U	UJ	J0	0.00238	0.0157	1	09/29/2019 04:24	WG1354017
Benzene	U			0.000502	0.00126	1	09/29/2019 04:24	WG1354017
Bromobenzene	U			0.00132	0.0157	1	09/29/2019 04:24	WG1354017
Bromodichloromethane	U			0.000989	0.00314	1	09/29/2019 04:24	WG1354017
Bromochloromethane	U			0.00142	0.00628	1	09/29/2019 04:24	WG1354017
Bromoform	U			0.00751	0.0314	1	09/29/2019 04:24	WG1354017
Bromomethane	U			0.00464	0.0157	1	09/29/2019 04:24	WG1354017
n-Butylbenzene	U			0.00482	0.0157	1	09/29/2019 04:24	WG1354017
sec-Butylbenzene	U			0.00318	0.0157	1	09/29/2019 04:24	WG1354017
tert-Butylbenzene	U			0.00195	0.00628	1	09/29/2019 04:24	WG1354017
Carbon disulfide	U			0.00510	0.0157	1	09/29/2019 04:24	WG1354017
Carbon tetrachloride	U			0.00136	0.00628	1	09/29/2019 04:24	WG1354017
Chlorobenzene	U			0.000719	0.00314	1	09/29/2019 04:24	WG1354017
Chlorodibromomethane	U			0.000565	0.00314	1	09/29/2019 04:24	WG1354017
Chloroethane	U			0.00136	0.00628	1	09/29/2019 04:24	WG1354017
Chloroform	U			0.000521	0.00314	1	09/29/2019 04:24	WG1354017
Chloromethane	U			0.00174	0.0157	1	09/29/2019 04:24	WG1354017
2-Chlorotoluene	U			0.00115	0.00314	1	09/29/2019 04:24	WG1354017
4-Chlorotoluene	U			0.00142	0.00628	1	09/29/2019 04:24	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00640	0.0314	1	09/29/2019 04:24	WG1354017
1,2-Dibromoethane	U			0.000659	0.00314	1	09/29/2019 04:24	WG1354017
Dibromomethane	U			0.00126	0.00628	1	09/29/2019 04:24	WG1354017
1,2-Dichlorobenzene	U			0.00182	0.00628	1	09/29/2019 04:24	WG1354017
1,3-Dichlorobenzene	U			0.00213	0.00628	1	09/29/2019 04:24	WG1354017
1,4-Dichlorobenzene	U			0.00247	0.00628	1	09/29/2019 04:24	WG1354017
Dichlorodifluoromethane	U			0.00103	0.00314	1	09/29/2019 04:24	WG1354017
1,1-Dichloroethane	U			0.000722	0.00314	1	09/29/2019 04:24	WG1354017
1,2-Dichloroethane	U			0.000596	0.00314	1	09/29/2019 04:24	WG1354017
1,1-Dichloroethene	0.000838	J	J	0.000628	0.00314	1	09/29/2019 04:24	WG1354017
cis-1,2-Dichloroethene	0.265			0.000866	0.00314	1	09/29/2019 04:24	WG1354017
trans-1,2-Dichloroethene	0.00184	J	J	0.00179	0.00628	1	09/29/2019 04:24	WG1354017
1,2-Dichloropropane	U			0.00159	0.00628	1	09/29/2019 04:24	WG1354017
1,1-Dichloropropene	U			0.000879	0.00314	1	09/29/2019 04:24	WG1354017
1,3-Dichloropropane	U			0.00220	0.00628	1	09/29/2019 04:24	WG1354017
cis-1,3-Dichloropropene	U			0.000851	0.00314	1	09/29/2019 04:24	WG1354017
trans-1,3-Dichloropropene	U			0.00192	0.00628	1	09/29/2019 04:24	WG1354017
trans-1,4-Dichloro-2-butene	U			0.00176	0.00628	1	09/29/2019 04:24	WG1354017
2,2-Dichloropropane	U			0.000995	0.00314	1	09/29/2019 04:24	WG1354017
Di-isopropyl ether	U			0.000439	0.00126	1	09/29/2019 04:24	WG1354017
Ethylbenzene	U			0.000665	0.00314	1	09/29/2019 04:24	WG1354017
Hexachloro-1,3-butadiene	U			0.0159	0.0314	1	09/29/2019 04:24	WG1354017
2-Hexanone	U			0.0126	0.0314	1	09/29/2019 04:24	WG1354017
n-Hexane	U	UJ	J0	0.00133	0.00628	1	09/29/2019 04:24	WG1354017
Iodomethane	U			0.00759	0.0157	1	09/29/2019 04:24	WG1354017
Isopropylbenzene	U			0.00108	0.00314	1	09/29/2019 04:24	WG1354017
p-Isopropyltoluene	U			0.00292	0.00628	1	09/29/2019 04:24	WG1354017
2-Butanone (MEK)	U			0.0157	0.0314	1	09/29/2019 04:24	WG1354017
Methylene Chloride	0.0116	U	B J	0.00833	0.0314	1	09/29/2019 04:24	WG1354017
4-Methyl-2-pentanone (MIBK)	U			0.0126	0.0314	1	09/29/2019 04:24	WG1354017

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MW-311-45

Collected date/time: 09/18/19 10:50

SAMPLE RESULTS - 09

L1141887

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000370	0.00126	1	09/29/2019 04:24	WG1354017
Naphthalene	U		0.00392	0.0157	1	09/29/2019 04:24	WG1354017
n-Propylbenzene	U		0.00148	0.00628	1	09/29/2019 04:24	WG1354017
Styrene	U		0.00343	0.0157	1	09/29/2019 04:24	WG1354017
1,1,1,2-Tetrachloroethane	U		0.000628	0.00314	1	09/29/2019 04:24	WG1354017
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000490	0.00314	1	09/29/2019 04:24	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.000847	0.00314	1	09/29/2019 04:24	WG1354017
Tetrachloroethene	1.25		0.000879	0.00314	1	09/29/2019 04:24	WG1354017
Toluene	0.00613	J J	0.00157	0.00628	1	09/29/2019 04:24	WG1354017
1,2,3-Trichlorobenzene	U		0.000784	0.00314	1	09/29/2019 04:24	WG1354017
1,2,4-Trichlorobenzene	U		0.00605	0.0157	1	09/29/2019 04:24	WG1354017
1,1,1-Trichloroethane	U		0.000345	0.00314	1	09/29/2019 04:24	WG1354017
1,1,2-Trichloroethane	U		0.00111	0.00314	1	09/29/2019 04:24	WG1354017
Trichloroethene	0.169		0.000502	0.00126	1	09/29/2019 04:24	WG1354017
Trichlorofluoromethane	U		0.000628	0.00314	1	09/29/2019 04:24	WG1354017
1,2,3-Trichloropropane	U		0.00640	0.0157	1	09/29/2019 04:24	WG1354017
1,2,4-Trimethylbenzene	U		0.00146	0.00628	1	09/29/2019 04:24	WG1354017
1,2,3-Trimethylbenzene	U		0.00144	0.00628	1	09/29/2019 04:24	WG1354017
1,3,5-Trimethylbenzene	U		0.00136	0.00628	1	09/29/2019 04:24	WG1354017
Vinyl acetate	U	UJ J0	0.00442	0.0157	1	09/29/2019 04:24	WG1354017
Vinyl chloride	U		0.000857	0.00314	1	09/29/2019 04:24	WG1354017
Xylenes, Total	U		0.00600	0.00816	1	09/29/2019 04:24	WG1354017
(S) Toluene-d8	*110*			*75.0-131*		*09/29/2019 04:24*	WG1354017
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*09/29/2019 04:24*	WG1354017
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/29/2019 04:24*	WG1354017

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.6		1	09/27/2019 13:17	WG1352844

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0416		0.0160	0.0292	1	09/29/2019 04:44	WG1354017
Acrylonitrile	U	UJ J0	0.00222	0.0146	1	09/29/2019 04:44	WG1354017
Benzene	0.000485	J J	0.000467	0.00117	1	09/29/2019 04:44	WG1354017
Bromobenzene	U		0.00123	0.0146	1	09/29/2019 04:44	WG1354017
Bromodichloromethane	U		0.000920	0.00292	1	09/29/2019 04:44	WG1354017
Bromochloromethane	U		0.00132	0.00584	1	09/29/2019 04:44	WG1354017
Bromoform	U		0.00698	0.0292	1	09/29/2019 04:44	WG1354017
Bromomethane	U		0.00432	0.0146	1	09/29/2019 04:44	WG1354017
n-Butylbenzene	U		0.00448	0.0146	1	09/29/2019 04:44	WG1354017
sec-Butylbenzene	U		0.00295	0.0146	1	09/29/2019 04:44	WG1354017
tert-Butylbenzene	U		0.00181	0.00584	1	09/29/2019 04:44	WG1354017
Carbon disulfide	U		0.00474	0.0146	1	09/29/2019 04:44	WG1354017
Carbon tetrachloride	U		0.00126	0.00584	1	09/29/2019 04:44	WG1354017
Chlorobenzene	U		0.000669	0.00292	1	09/29/2019 04:44	WG1354017
Chlorodibromomethane	U		0.000525	0.00292	1	09/29/2019 04:44	WG1354017
Chloroethane	U		0.00126	0.00584	1	09/29/2019 04:44	WG1354017
Chloroform	U		0.000485	0.00292	1	09/29/2019 04:44	WG1354017
Chloromethane	U		0.00162	0.0146	1	09/29/2019 04:44	WG1354017
2-Chlorotoluene	U		0.00107	0.00292	1	09/29/2019 04:44	WG1354017
4-Chlorotoluene	U		0.00132	0.00584	1	09/29/2019 04:44	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00595	0.0292	1	09/29/2019 04:44	WG1354017
1,2-Dibromoethane	U		0.000613	0.00292	1	09/29/2019 04:44	WG1354017
Dibromomethane	U		0.00117	0.00584	1	09/29/2019 04:44	WG1354017
1,2-Dichlorobenzene	U		0.00169	0.00584	1	09/29/2019 04:44	WG1354017
1,3-Dichlorobenzene	U		0.00198	0.00584	1	09/29/2019 04:44	WG1354017
1,4-Dichlorobenzene	U		0.00230	0.00584	1	09/29/2019 04:44	WG1354017
Dichlorodifluoromethane	U		0.000955	0.00292	1	09/29/2019 04:44	WG1354017
1,1-Dichloroethane	U		0.000671	0.00292	1	09/29/2019 04:44	WG1354017
1,2-Dichloroethane	U		0.000555	0.00292	1	09/29/2019 04:44	WG1354017
1,1-Dichloroethene	0.000999	J J	0.000584	0.00292	1	09/29/2019 04:44	WG1354017
cis-1,2-Dichloroethene	0.232		0.000806	0.00292	1	09/29/2019 04:44	WG1354017
trans-1,2-Dichloroethene	0.00195	J J	0.00167	0.00584	1	09/29/2019 04:44	WG1354017
1,2-Dichloropropane	U		0.00148	0.00584	1	09/29/2019 04:44	WG1354017
1,1-Dichloropropene	U		0.000817	0.00292	1	09/29/2019 04:44	WG1354017
1,3-Dichloropropane	U		0.00204	0.00584	1	09/29/2019 04:44	WG1354017
cis-1,3-Dichloropropene	U		0.000792	0.00292	1	09/29/2019 04:44	WG1354017
trans-1,3-Dichloropropene	U		0.00179	0.00584	1	09/29/2019 04:44	WG1354017
trans-1,4-Dichloro-2-butene	U		0.00163	0.00584	1	09/29/2019 04:44	WG1354017
2,2-Dichloropropane	U		0.000926	0.00292	1	09/29/2019 04:44	WG1354017
Di-isopropyl ether	U		0.000409	0.00117	1	09/29/2019 04:44	WG1354017
Ethylbenzene	U		0.000619	0.00292	1	09/29/2019 04:44	WG1354017
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	09/29/2019 04:44	WG1354017
2-Hexanone	U		0.0117	0.0292	1	09/29/2019 04:44	WG1354017
n-Hexane	0.00800	UJ J0	0.00124	0.00584	1	09/29/2019 04:44	WG1354017
Iodomethane	U		0.00706	0.0146	1	09/29/2019 04:44	WG1354017
Isopropylbenzene	U		0.00101	0.00292	1	09/29/2019 04:44	WG1354017
p-Isopropyltoluene	U		0.00272	0.00584	1	09/29/2019 04:44	WG1354017
2-Butanone (MEK)	U		0.0146	0.0292	1	09/29/2019 04:44	WG1354017
Methylene Chloride	0.0130	U B J	0.00775	0.0292	1	09/29/2019 04:44	WG1354017
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	09/29/2019 04:44	WG1354017

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	09/29/2019 04:44	WG1354017
Naphthalene	U		0.00364	0.0146	1	09/29/2019 04:44	WG1354017
n-Propylbenzene	U		0.00138	0.00584	1	09/29/2019 04:44	WG1354017
Styrene	U		0.00319	0.0146	1	09/29/2019 04:44	WG1354017
1,1,1,2-Tetrachloroethane	U		0.000584	0.00292	1	09/29/2019 04:44	WG1354017
1,1,2,2-Tetrachloroethane	U UJ	J0	0.000455	0.00292	1	09/29/2019 04:44	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.000788	0.00292	1	09/29/2019 04:44	WG1354017
Tetrachloroethene	1.31		0.000817	0.00292	1	09/29/2019 04:44	WG1354017
Toluene	0.0181		0.00146	0.00584	1	09/29/2019 04:44	WG1354017
1,2,3-Trichlorobenzene	U		0.000730	0.00292	1	09/29/2019 04:44	WG1354017
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1	09/29/2019 04:44	WG1354017
1,1,1-Trichloroethane	U		0.000321	0.00292	1	09/29/2019 04:44	WG1354017
1,1,2-Trichloroethane	U		0.00103	0.00292	1	09/29/2019 04:44	WG1354017
Trichloroethene	0.151		0.000467	0.00117	1	09/29/2019 04:44	WG1354017
Trichlorofluoromethane	U		0.000584	0.00292	1	09/29/2019 04:44	WG1354017
1,2,3-Trichloropropane	U		0.00595	0.0146	1	09/29/2019 04:44	WG1354017
1,2,4-Trimethylbenzene	U		0.00135	0.00584	1	09/29/2019 04:44	WG1354017
1,2,3-Trimethylbenzene	U		0.00134	0.00584	1	09/29/2019 04:44	WG1354017
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1	09/29/2019 04:44	WG1354017
Vinyl acetate	U UJ	J0	0.00411	0.0146	1	09/29/2019 04:44	WG1354017
Vinyl chloride	U		0.000797	0.00292	1	09/29/2019 04:44	WG1354017
Xylenes, Total	U		0.00558	0.00759	1	09/29/2019 04:44	WG1354017
(S) Toluene-d8	*111*			*75.0-131*		*09/29/2019 04:44*	WG1354017
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*09/29/2019 04:44*	WG1354017
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/29/2019 04:44*	WG1354017

JC 11/11/19

MW-311-55

Collected date/time: 09/18/19 11:00

SAMPLE RESULTS - 11

L1141887

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.5		1	09/27/2019 11:08	WG1352847

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0466			0.0151	0.0276	1	09/29/2019 05:04	WG1354017
Acrylonitrile	U	UJ	J0	0.00210	0.0138	1	09/29/2019 05:04	WG1354017
Benzene	0.000690	J	J	0.000442	0.00111	1	09/29/2019 05:04	WG1354017
Bromobenzene	U			0.00116	0.0138	1	09/29/2019 05:04	WG1354017
Bromodichloromethane	U			0.000871	0.00276	1	09/29/2019 05:04	WG1354017
Bromochloromethane	U			0.00125	0.00553	1	09/29/2019 05:04	WG1354017
Bromoform	U			0.00661	0.0276	1	09/29/2019 05:04	WG1354017
Bromomethane	U			0.00409	0.0138	1	09/29/2019 05:04	WG1354017
n-Butylbenzene	U			0.00425	0.0138	1	09/29/2019 05:04	WG1354017
sec-Butylbenzene	U			0.00280	0.0138	1	09/29/2019 05:04	WG1354017
tert-Butylbenzene	U			0.00171	0.00553	1	09/29/2019 05:04	WG1354017
Carbon disulfide	U			0.00449	0.0138	1	09/29/2019 05:04	WG1354017
Carbon tetrachloride	U			0.00119	0.00553	1	09/29/2019 05:04	WG1354017
Chlorobenzene	U			0.000633	0.00276	1	09/29/2019 05:04	WG1354017
Chlorodibromomethane	U			0.000498	0.00276	1	09/29/2019 05:04	WG1354017
Chloroethane	U			0.00119	0.00553	1	09/29/2019 05:04	WG1354017
Chloroform	U			0.000459	0.00276	1	09/29/2019 05:04	WG1354017
Chloromethane	U			0.00154	0.0138	1	09/29/2019 05:04	WG1354017
2-Chlorotoluene	U			0.00102	0.00276	1	09/29/2019 05:04	WG1354017
4-Chlorotoluene	U			0.00125	0.00553	1	09/29/2019 05:04	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00564	0.0276	1	09/29/2019 05:04	WG1354017
1,2-Dibromoethane	U			0.000580	0.00276	1	09/29/2019 05:04	WG1354017
Dibromomethane	U			0.00111	0.00553	1	09/29/2019 05:04	WG1354017
1,2-Dichlorobenzene	U			0.00160	0.00553	1	09/29/2019 05:04	WG1354017
1,3-Dichlorobenzene	U			0.00188	0.00553	1	09/29/2019 05:04	WG1354017
1,4-Dichlorobenzene	U			0.00218	0.00553	1	09/29/2019 05:04	WG1354017
Dichlorodifluoromethane	U			0.000904	0.00276	1	09/29/2019 05:04	WG1354017
1,1-Dichloroethane	U			0.000636	0.00276	1	09/29/2019 05:04	WG1354017
1,2-Dichloroethane	U			0.000525	0.00276	1	09/29/2019 05:04	WG1354017
1,1-Dichloroethene	0.00508			0.000553	0.00276	1	09/29/2019 05:04	WG1354017
cis-1,2-Dichloroethene	0.545			0.000763	0.00276	1	09/29/2019 05:04	WG1354017
trans-1,2-Dichloroethene	0.00191	J	J	0.00158	0.00553	1	09/29/2019 05:04	WG1354017
1,2-Dichloropropane	U			0.00140	0.00553	1	09/29/2019 05:04	WG1354017
1,1-Dichloropropene	U			0.000774	0.00276	1	09/29/2019 05:04	WG1354017
1,3-Dichloropropane	U			0.00193	0.00553	1	09/29/2019 05:04	WG1354017
cis-1,3-Dichloropropene	U			0.000750	0.00276	1	09/29/2019 05:04	WG1354017
trans-1,3-Dichloropropene	U			0.00169	0.00553	1	09/29/2019 05:04	WG1354017
trans-1,4-Dichloro-2-butene	U			0.00155	0.00553	1	09/29/2019 05:04	WG1354017
2,2-Dichloropropane	U			0.000877	0.00276	1	09/29/2019 05:04	WG1354017
Di-isopropyl ether	U			0.000387	0.00111	1	09/29/2019 05:04	WG1354017
Ethylbenzene	U			0.000586	0.00276	1	09/29/2019 05:04	WG1354017
Hexachloro-1,3-butadiene	U			0.0140	0.0276	1	09/29/2019 05:04	WG1354017
2-Hexanone	U			0.0111	0.0276	1	09/29/2019 05:04	WG1354017
n-Hexane	0.00470	J	J J0	0.00117	0.00553	1	09/29/2019 05:04	WG1354017
Iodomethane	U			0.00669	0.0138	1	09/29/2019 05:04	WG1354017
Isopropylbenzene	U			0.000954	0.00276	1	09/29/2019 05:04	WG1354017
p-Isopropyltoluene	U			0.00258	0.00553	1	09/29/2019 05:04	WG1354017
2-Butanone (MEK)	U			0.0138	0.0276	1	09/29/2019 05:04	WG1354017
Methylene Chloride	0.00939	U	B J	0.00734	0.0276	1	09/29/2019 05:04	WG1354017
4-Methyl-2-pentanone (MIBK)	U			0.0111	0.0276	1	09/29/2019 05:04	WG1354017

JC 11/11/19

MW-311-55

SAMPLE RESULTS - 11

Collected date/time: 09/18/19 11:00

L1141887

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00111	1	09/29/2019 05:04	WG1354017
Naphthalene	U		0.00345	0.0138	1	09/29/2019 05:04	WG1354017
n-Propylbenzene	U		0.00130	0.00553	1	09/29/2019 05:04	WG1354017
Styrene	U		0.00302	0.0138	1	09/29/2019 05:04	WG1354017
1,1,1,2-Tetrachloroethane	U		0.000553	0.00276	1	09/29/2019 05:04	WG1354017
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000431	0.00276	1	09/29/2019 05:04	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.000746	0.00276	1	09/29/2019 05:04	WG1354017
Tetrachloroethene	2.31		0.0155	0.0553	20	10/01/2019 21:06	WG1354779
Toluene	0.0106		0.00138	0.00553	1	09/29/2019 05:04	WG1354017
1,2,3-Trichlorobenzene	U		0.000691	0.00276	1	09/29/2019 05:04	WG1354017
1,2,4-Trichlorobenzene	U		0.00533	0.0138	1	09/29/2019 05:04	WG1354017
1,1,1-Trichloroethane	U		0.000304	0.00276	1	09/29/2019 05:04	WG1354017
1,1,2-Trichloroethane	U		0.000976	0.00276	1	09/29/2019 05:04	WG1354017
Trichloroethene	0.895		0.000442	0.00111	1	09/29/2019 05:04	WG1354017
Trichlorofluoromethane	U		0.000553	0.00276	1	09/29/2019 05:04	WG1354017
1,2,3-Trichloropropane	U		0.00564	0.0138	1	09/29/2019 05:04	WG1354017
1,2,4-Trimethylbenzene	U		0.00128	0.00553	1	09/29/2019 05:04	WG1354017
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	09/29/2019 05:04	WG1354017
1,3,5-Trimethylbenzene	U		0.00119	0.00553	1	09/29/2019 05:04	WG1354017
Vinyl acetate	U	UJ J0	0.00389	0.0138	1	09/29/2019 05:04	WG1354017
Vinyl chloride	0.0235		0.000755	0.00276	1	09/29/2019 05:04	WG1354017
Xylenes, Total	U		0.00528	0.00719	1	09/29/2019 05:04	WG1354017
(S) Toluene-d8	*109*			*75.0-131*		*09/29/2019 05:04*	WG1354017
(S) Toluene-d8	*109*			*75.0-131*		*10/01/2019 21:06*	WG1354779
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/29/2019 05:04*	WG1354017
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*10/01/2019 21:06*	WG1354779
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/29/2019 05:04*	WG1354017
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/01/2019 21:06*	WG1354779

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.3		1	09/27/2019 11:08	WG1352847

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0887		0.0300	0.0548	2	09/29/2019 05:25	WG1354017	
Acrylonitrile	U	UJ J0	0.00416	0.0274	2	09/29/2019 05:25	WG1354017	
Benzene	U		0.000877	0.00219	2	09/29/2019 05:25	WG1354017	
Bromobenzene	U		0.00230	0.0274	2	09/29/2019 05:25	WG1354017	
Bromodichloromethane	U		0.00173	0.00548	2	09/29/2019 05:25	WG1354017	
Bromochloromethane	U		0.00248	0.0110	2	09/29/2019 05:25	WG1354017	
Bromoform	U		0.0131	0.0548	2	09/29/2019 05:25	WG1354017	
Bromomethane	U		0.00811	0.0274	2	09/29/2019 05:25	WG1354017	
n-Butylbenzene	U		0.00842	0.0274	2	09/29/2019 05:25	WG1354017	
sec-Butylbenzene	U		0.00554	0.0274	2	09/29/2019 05:25	WG1354017	
tert-Butylbenzene	U		0.00340	0.0110	2	09/29/2019 05:25	WG1354017	
Carbon disulfide	U		0.00890	0.0274	2	09/29/2019 05:25	WG1354017	
Carbon tetrachloride	U		0.00237	0.0110	2	09/29/2019 05:25	WG1354017	
Chlorobenzene	U		0.00126	0.00548	2	09/29/2019 05:25	WG1354017	
Chlorodibromomethane	U		0.000986	0.00548	2	09/29/2019 05:25	WG1354017	
Chloroethane	U		0.00237	0.0110	2	09/29/2019 05:25	WG1354017	
Chloroform	U		0.000910	0.00548	2	09/29/2019 05:25	WG1354017	
Chloromethane	U		0.00305	0.0274	2	09/29/2019 05:25	WG1354017	
2-Chlorotoluene	U		0.00202	0.00548	2	09/29/2019 05:25	WG1354017	
4-Chlorotoluene	U		0.00248	0.0110	2	09/29/2019 05:25	WG1354017	
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.0112	0.0548	2	09/29/2019 05:25	WG1354017	
1,2-Dibromoethane	U		0.00115	0.00548	2	09/29/2019 05:25	WG1354017	
Dibromomethane	U		0.00219	0.0110	2	09/29/2019 05:25	WG1354017	
1,2-Dichlorobenzene	U		0.00318	0.0110	2	09/29/2019 05:25	WG1354017	
1,3-Dichlorobenzene	U		0.00373	0.0110	2	09/29/2019 05:25	WG1354017	
1,4-Dichlorobenzene	U		0.00432	0.0110	2	09/29/2019 05:25	WG1354017	
Dichlorodifluoromethane	U		0.00180	0.00548	2	09/29/2019 05:25	WG1354017	
1,1-Dichloroethane	U		0.00126	0.00548	2	09/29/2019 05:25	WG1354017	
1,2-Dichloroethane	U		0.00104	0.00548	2	09/29/2019 05:25	WG1354017	
1,1-Dichloroethene	U		0.00110	0.00548	2	09/29/2019 05:25	WG1354017	
cis-1,2-Dichloroethene	0.141		0.00151	0.00548	2	09/29/2019 05:25	WG1354017	
trans-1,2-Dichloroethene	U		0.00313	0.0110	2	09/29/2019 05:25	WG1354017	
1,2-Dichloropropane	U		0.00278	0.0110	2	09/29/2019 05:25	WG1354017	
1,1-Dichloropropene	U		0.00153	0.00548	2	09/29/2019 05:25	WG1354017	
1,3-Dichloropropane	U		0.00384	0.0110	2	09/29/2019 05:25	WG1354017	
cis-1,3-Dichloropropene	U		0.00149	0.00548	2	09/29/2019 05:25	WG1354017	JC 11/11/19
trans-1,3-Dichloropropene	U		0.00335	0.0110	2	09/29/2019 05:25	WG1354017	
trans-1,4-Dichloro-2-butene	U		0.00307	0.0110	2	09/29/2019 05:25	WG1354017	
2,2-Dichloropropane	U		0.00174	0.00548	2	09/29/2019 05:25	WG1354017	
Di-isopropyl ether	U		0.000767	0.00219	2	09/29/2019 05:25	WG1354017	
Ethylbenzene	0.00131	J J	0.00116	0.00548	2	09/29/2019 05:25	WG1354017	
Hexachloro-1,3-butadiene	U		0.0278	0.0548	2	09/29/2019 05:25	WG1354017	
2-Hexanone	U		0.0219	0.0548	2	09/29/2019 05:25	WG1354017	
n-Hexane	U	UJ J0	0.00232	0.0110	2	09/29/2019 05:25	WG1354017	
Iodomethane	U		0.0133	0.0274	2	09/29/2019 05:25	WG1354017	
Isopropylbenzene	U		0.00190	0.00548	2	09/29/2019 05:25	WG1354017	
p-Isopropyltoluene	U		0.00511	0.0110	2	09/29/2019 05:25	WG1354017	
2-Butanone (MEK)	U		0.0274	0.0548	2	09/29/2019 05:25	WG1354017	
Methylene Chloride	0.0261	U B J	0.0146	0.0548	2	09/29/2019 05:25	WG1354017	
4-Methyl-2-pentanone (MIBK)	U		0.0219	0.0548	2	09/29/2019 05:25	WG1354017	

MW-311-60

Collected date/time: 09/18/19 11:05

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000647	0.00219	2	09/29/2019 05:25	WG1354017
Naphthalene	U		0.00684	0.0274	2	09/29/2019 05:25	WG1354017
n-Propylbenzene	U		0.00259	0.0110	2	09/29/2019 05:25	WG1354017
Styrene	U		0.00598	0.0274	2	09/29/2019 05:25	WG1354017
1,1,1,2-Tetrachloroethane	U		0.00110	0.00548	2	09/29/2019 05:25	WG1354017
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000855	0.00548	2	09/29/2019 05:25	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.00148	0.00548	2	09/29/2019 05:25	WG1354017
Tetrachloroethene	0.00274	J J	0.00153	0.00548	2	10/01/2019 18:23	WG1354779
Toluene	0.0290		0.00274	0.0110	2	09/29/2019 05:25	WG1354017
1,2,3-Trichlorobenzene	U		0.00137	0.00548	2	09/29/2019 05:25	WG1354017
1,2,4-Trichlorobenzene	U		0.0106	0.0274	2	09/29/2019 05:25	WG1354017
1,1,1-Trichloroethane	U		0.000603	0.00548	2	09/29/2019 05:25	WG1354017
1,1,2-Trichloroethane	U		0.00194	0.00548	2	09/29/2019 05:25	WG1354017
Trichloroethene	0.0106		0.000877	0.00219	2	09/29/2019 05:25	WG1354017
Trichlorofluoromethane	U		0.00110	0.00548	2	09/29/2019 05:25	WG1354017
1,2,3-Trichloropropane	U		0.0112	0.0274	2	09/29/2019 05:25	WG1354017
1,2,4-Trimethylbenzene	U		0.00254	0.0110	2	09/29/2019 05:25	WG1354017
1,2,3-Trimethylbenzene	U		0.00252	0.0110	2	09/29/2019 05:25	WG1354017
1,3,5-Trimethylbenzene	U		0.00237	0.0110	2	09/29/2019 05:25	WG1354017
Vinyl acetate	U	UJ J0	0.00771	0.0274	2	09/29/2019 05:25	WG1354017
Vinyl chloride	0.0232		0.00150	0.00548	2	09/29/2019 05:25	WG1354017
Xylenes, Total	U		0.0105	0.0142	2	09/29/2019 05:25	WG1354017
(S) Toluene-d8	*111*			*75.0-131*		*09/29/2019 05:25*	WG1354017
(S) Toluene-d8	*110*			*75.0-131*		*10/01/2019 18:23*	WG1354779
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*09/29/2019 05:25*	WG1354017
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/01/2019 18:23*	WG1354779
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/29/2019 05:25*	WG1354017
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/01/2019 18:23*	WG1354779

Sample Narrative:

L1141887-12 WG1354017, WG1354779: Dilution due to limited sample volume.

L1141887-12 WG1354017, WG1354779: Lowest possible dilution due to low sample volume.

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	09/27/2019 11:08	WG1352847

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0265			0.0145	0.0265	1	09/29/2019 05:45	WG1354017
Acrylonitrile	U	UJ	J0	0.00201	0.0132	1	09/29/2019 05:45	WG1354017
Benzene	U			0.000424	0.00106	1	09/29/2019 05:45	WG1354017
Bromobenzene	U			0.00111	0.0132	1	09/29/2019 05:45	WG1354017
Bromodichloromethane	U			0.000835	0.00265	1	09/29/2019 05:45	WG1354017
Bromochloromethane	U			0.00120	0.00530	1	09/29/2019 05:45	WG1354017
Bromoform	U			0.00634	0.0265	1	09/29/2019 05:45	WG1354017
Bromomethane	U			0.00392	0.0132	1	09/29/2019 05:45	WG1354017
n-Butylbenzene	U			0.00407	0.0132	1	09/29/2019 05:45	WG1354017
sec-Butylbenzene	U			0.00268	0.0132	1	09/29/2019 05:45	WG1354017
tert-Butylbenzene	U			0.00164	0.00530	1	09/29/2019 05:45	WG1354017
Carbon disulfide	U			0.00430	0.0132	1	09/29/2019 05:45	WG1354017
Carbon tetrachloride	U			0.00114	0.00530	1	09/29/2019 05:45	WG1354017
Chlorobenzene	U			0.000607	0.00265	1	09/29/2019 05:45	WG1354017
Chlorodibromomethane	U			0.000477	0.00265	1	09/29/2019 05:45	WG1354017
Chloroethane	U			0.00114	0.00530	1	09/29/2019 05:45	WG1354017
Chloroform	U			0.000440	0.00265	1	09/29/2019 05:45	WG1354017
Chloromethane	U			0.00147	0.0132	1	09/29/2019 05:45	WG1354017
2-Chlorotoluene	U			0.000975	0.00265	1	09/29/2019 05:45	WG1354017
4-Chlorotoluene	U			0.00120	0.00530	1	09/29/2019 05:45	WG1354017
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00541	0.0265	1	09/29/2019 05:45	WG1354017
1,2-Dibromoethane	U			0.000556	0.00265	1	09/29/2019 05:45	WG1354017
Dibromomethane	U			0.00106	0.00530	1	09/29/2019 05:45	WG1354017
1,2-Dichlorobenzene	U			0.00154	0.00530	1	09/29/2019 05:45	WG1354017
1,3-Dichlorobenzene	U			0.00180	0.00530	1	09/29/2019 05:45	WG1354017
1,4-Dichlorobenzene	U			0.00209	0.00530	1	09/29/2019 05:45	WG1354017
Dichlorodifluoromethane	U			0.000867	0.00265	1	09/29/2019 05:45	WG1354017
1,1-Dichloroethane	U			0.000609	0.00265	1	09/29/2019 05:45	WG1354017
1,2-Dichloroethane	U			0.000503	0.00265	1	09/29/2019 05:45	WG1354017
1,1-Dichloroethene	U			0.000530	0.00265	1	09/29/2019 05:45	WG1354017
cis-1,2-Dichloroethene	0.00153	J	J	0.000731	0.00265	1	09/29/2019 05:45	WG1354017
trans-1,2-Dichloroethene	U			0.00152	0.00530	1	09/29/2019 05:45	WG1354017
1,2-Dichloropropane	U			0.00135	0.00530	1	09/29/2019 05:45	WG1354017
1,1-Dichloropropene	U			0.000742	0.00265	1	09/29/2019 05:45	WG1354017
1,3-Dichloropropane	U			0.00185	0.00530	1	09/29/2019 05:45	WG1354017
cis-1,3-Dichloropropene	U			0.000719	0.00265	1	09/29/2019 05:45	WG1354017
trans-1,3-Dichloropropene	U			0.00162	0.00530	1	09/29/2019 05:45	WG1354017
trans-1,4-Dichloro-2-butene	U			0.00148	0.00530	1	09/29/2019 05:45	WG1354017
2,2-Dichloropropane	U			0.000840	0.00265	1	09/29/2019 05:45	WG1354017
Di-isopropyl ether	U			0.000371	0.00106	1	09/29/2019 05:45	WG1354017
Ethylbenzene	U			0.000562	0.00265	1	09/29/2019 05:45	WG1354017
Hexachloro-1,3-butadiene	U			0.0135	0.0265	1	09/29/2019 05:45	WG1354017
2-Hexanone	U			0.0106	0.0265	1	09/29/2019 05:45	WG1354017
n-Hexane	0.00513	J	J J0	0.00112	0.00530	1	09/29/2019 05:45	WG1354017
Iodomethane	U			0.00641	0.0132	1	09/29/2019 05:45	WG1354017
Isopropylbenzene	U			0.000915	0.00265	1	09/29/2019 05:45	WG1354017
p-Isopropyltoluene	U			0.00247	0.00530	1	09/29/2019 05:45	WG1354017
2-Butanone (MEK)	U			0.0132	0.0265	1	09/29/2019 05:45	WG1354017
Methylene Chloride	0.00862	U	B J	0.00704	0.0265	1	09/29/2019 05:45	WG1354017
4-Methyl-2-pentanone (MIBK)	U			0.0106	0.0265	1	09/29/2019 05:45	WG1354017

JC 11/11/19

MW-311-65

SAMPLE RESULTS - 13

Collected date/time: 09/18/19 12:35

L1141887

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000313	0.00106	1	09/29/2019 05:45	WG1354017
Naphthalene	U		0.00331	0.0132	1	09/29/2019 05:45	WG1354017
n-Propylbenzene	U		0.00125	0.00530	1	09/29/2019 05:45	WG1354017
Styrene	U		0.00289	0.0132	1	09/29/2019 05:45	WG1354017
1,1,1,2-Tetrachloroethane	U		0.000530	0.00265	1	09/29/2019 05:45	WG1354017
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000413	0.00265	1	09/29/2019 05:45	WG1354017
1,1,2-Trichlorotrifluoroethane	U		0.000715	0.00265	1	09/29/2019 05:45	WG1354017
Tetrachloroethene	U		0.000742	0.00265	1	10/01/2019 18:43	WG1354779
Toluene	0.0112		0.00132	0.00530	1	09/29/2019 05:45	WG1354017
1,2,3-Trichlorobenzene	U		0.000662	0.00265	1	09/29/2019 05:45	WG1354017
1,2,4-Trichlorobenzene	U		0.00511	0.0132	1	09/29/2019 05:45	WG1354017
1,1,1-Trichloroethane	U		0.000291	0.00265	1	09/29/2019 05:45	WG1354017
1,1,2-Trichloroethane	U		0.000936	0.00265	1	09/29/2019 05:45	WG1354017
Trichloroethene	0.000817	J J	0.000424	0.00106	1	09/29/2019 05:45	WG1354017
Trichlorofluoromethane	U		0.000530	0.00265	1	09/29/2019 05:45	WG1354017
1,2,3-Trichloropropane	U		0.00541	0.0132	1	09/29/2019 05:45	WG1354017
1,2,4-Trimethylbenzene	U		0.00123	0.00530	1	09/29/2019 05:45	WG1354017
1,2,3-Trimethylbenzene	U		0.00122	0.00530	1	09/29/2019 05:45	WG1354017
1,3,5-Trimethylbenzene	U		0.00114	0.00530	1	09/29/2019 05:45	WG1354017
Vinyl acetate	U	UJ J0	0.00373	0.0132	1	09/29/2019 05:45	WG1354017
Vinyl chloride	0.00565		0.000724	0.00265	1	09/29/2019 05:45	WG1354017
Xylenes, Total	U		0.00507	0.00689	1	09/29/2019 05:45	WG1354017
(S) Toluene-d8	*114*			*75.0-131*		*09/29/2019 05:45*	WG1354017
(S) Toluene-d8	*109*			*75.0-131*		*10/01/2019 18:43*	WG1354779
(S) 4-Bromofluorobenzene	*98.7*			*67.0-138*		*09/29/2019 05:45*	WG1354017
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*		*10/01/2019 18:43*	WG1354779
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*09/29/2019 05:45*	WG1354017
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/01/2019 18:43*	WG1354779

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.8		1	09/27/2019 11:08	WG1352847

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0230	J	J	0.0151	0.0275	1	10/01/2019 19:03	WG1354779
Acrylonitrile	U	UJ	J0	0.00209	0.0138	1	10/01/2019 19:03	WG1354779
Benzene	U			0.000441	0.00110	1	10/01/2019 19:03	WG1354779
Bromobenzene	U			0.00116	0.0138	1	10/01/2019 19:03	WG1354779
Bromodichloromethane	U			0.000868	0.00275	1	10/01/2019 19:03	WG1354779
Bromochloromethane	U			0.00125	0.00551	1	10/01/2019 19:03	WG1354779
Bromoform	U			0.00659	0.0275	1	10/01/2019 19:03	WG1354779
Bromomethane	U			0.00408	0.0138	1	10/01/2019 19:03	WG1354779
n-Butylbenzene	U			0.00423	0.0138	1	10/01/2019 19:03	WG1354779
sec-Butylbenzene	U			0.00279	0.0138	1	10/01/2019 19:03	WG1354779
tert-Butylbenzene	U			0.00171	0.00551	1	10/01/2019 19:03	WG1354779
Carbon disulfide	U			0.00447	0.0138	1	10/01/2019 19:03	WG1354779
Carbon tetrachloride	U			0.00119	0.00551	1	10/01/2019 19:03	WG1354779
Chlorobenzene	U			0.000631	0.00275	1	10/01/2019 19:03	WG1354779
Chlorodibromomethane	U			0.000496	0.00275	1	10/01/2019 19:03	WG1354779
Chloroethane	U			0.00119	0.00551	1	10/01/2019 19:03	WG1354779
Chloroform	0.000674	U	B J	0.000457	0.00275	1	10/01/2019 19:03	WG1354779
Chloromethane	U			0.00153	0.0138	1	10/01/2019 19:03	WG1354779
2-Chlorotoluene	U			0.00101	0.00275	1	10/01/2019 19:03	WG1354779
4-Chlorotoluene	U			0.00125	0.00551	1	10/01/2019 19:03	WG1354779
1,2-Dibromo-3-Chloropropane	U			0.00562	0.0275	1	10/01/2019 19:03	WG1354779
1,2-Dibromoethane	U			0.000578	0.00275	1	10/01/2019 19:03	WG1354779
Dibromomethane	U			0.00110	0.00551	1	10/01/2019 19:03	WG1354779
1,2-Dichlorobenzene	U			0.00160	0.00551	1	10/01/2019 19:03	WG1354779
1,3-Dichlorobenzene	U			0.00187	0.00551	1	10/01/2019 19:03	WG1354779
1,4-Dichlorobenzene	U			0.00217	0.00551	1	10/01/2019 19:03	WG1354779
Dichlorodifluoromethane	U			0.000901	0.00275	1	10/01/2019 19:03	WG1354779
1,1-Dichloroethane	U			0.000634	0.00275	1	10/01/2019 19:03	WG1354779
1,2-Dichloroethane	U			0.000523	0.00275	1	10/01/2019 19:03	WG1354779
1,1-Dichloroethene	U			0.000551	0.00275	1	10/01/2019 19:03	WG1354779
cis-1,2-Dichloroethene	U			0.000760	0.00275	1	10/01/2019 19:03	WG1354779
trans-1,2-Dichloroethene	U			0.00158	0.00551	1	10/01/2019 19:03	WG1354779
1,2-Dichloropropane	U			0.00140	0.00551	1	10/01/2019 19:03	WG1354779
1,1-Dichloropropene	U			0.000771	0.00275	1	10/01/2019 19:03	WG1354779
1,3-Dichloropropane	U			0.00193	0.00551	1	10/01/2019 19:03	WG1354779
cis-1,3-Dichloropropene	U			0.000747	0.00275	1	10/01/2019 19:03	WG1354779
trans-1,3-Dichloropropene	U			0.00169	0.00551	1	10/01/2019 19:03	WG1354779
trans-1,4-Dichloro-2-butene	U			0.00154	0.00551	1	10/01/2019 19:03	WG1354779
2,2-Dichloropropane	U			0.000874	0.00275	1	10/01/2019 19:03	WG1354779
Di-isopropyl ether	U			0.000386	0.00110	1	10/01/2019 19:03	WG1354779
Ethylbenzene	U			0.000584	0.00275	1	10/01/2019 19:03	WG1354779
Hexachloro-1,3-butadiene	U			0.0140	0.0275	1	10/01/2019 19:03	WG1354779
2-Hexanone	U			0.0110	0.0275	1	10/01/2019 19:03	WG1354779
n-Hexane	U			0.00117	0.00551	1	10/01/2019 19:03	WG1354779
Iodomethane	U			0.00667	0.0138	1	10/01/2019 19:03	WG1354779
Isopropylbenzene	U			0.000951	0.00275	1	10/01/2019 19:03	WG1354779
p-Isopropyltoluene	U			0.00257	0.00551	1	10/01/2019 19:03	WG1354779
2-Butanone (MEK)	U			0.0138	0.0275	1	10/01/2019 19:03	WG1354779
Methylene Chloride	0.00961	J	J	0.00732	0.0275	1	10/01/2019 19:03	WG1354779
4-Methyl-2-pentanone (MIBK)	U			0.0110	0.0275	1	10/01/2019 19:03	WG1354779

JC 11/11/19

MW-311-70

Collected date/time: 09/18/19 12:40

SAMPLE RESULTS - 14

L1141887

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000325	0.00110	1	10/01/2019 19:03	WG1354779
Naphthalene	U			0.00344	0.0138	1	10/01/2019 19:03	WG1354779
n-Propylbenzene	U			0.00130	0.00551	1	10/01/2019 19:03	WG1354779
Styrene	U			0.00301	0.0138	1	10/01/2019 19:03	WG1354779
1,1,1,2-Tetrachloroethane	U			0.000551	0.00275	1	10/01/2019 19:03	WG1354779
1,1,2,2-Tetrachloroethane	U			0.000430	0.00275	1	10/01/2019 19:03	WG1354779
1,1,2-Trichlorotrifluoroethane	U			0.000744	0.00275	1	10/01/2019 19:03	WG1354779
Tetrachloroethene	0.00142	J	J	0.000771	0.00275	1	10/01/2019 19:03	WG1354779
Toluene	0.00420	J	J	0.00138	0.00551	1	10/01/2019 19:03	WG1354779
1,2,3-Trichlorobenzene	U			0.000689	0.00275	1	10/01/2019 19:03	WG1354779
1,2,4-Trichlorobenzene	U			0.00531	0.0138	1	10/01/2019 19:03	WG1354779
1,1,1-Trichloroethane	U			0.000303	0.00275	1	10/01/2019 19:03	WG1354779
1,1,2-Trichloroethane	U			0.000973	0.00275	1	10/01/2019 19:03	WG1354779
Trichloroethene	0.000483	J	J	0.000441	0.00110	1	10/01/2019 19:03	WG1354779
Trichlorofluoromethane	U			0.000551	0.00275	1	10/01/2019 19:03	WG1354779
1,2,3-Trichloropropane	U			0.00562	0.0138	1	10/01/2019 19:03	WG1354779
1,2,4-Trimethylbenzene	U			0.00128	0.00551	1	10/01/2019 19:03	WG1354779
1,2,3-Trimethylbenzene	U			0.00127	0.00551	1	10/01/2019 19:03	WG1354779
1,3,5-Trimethylbenzene	U			0.00119	0.00551	1	10/01/2019 19:03	WG1354779
Vinyl acetate	U	UJ	J0	0.00388	0.0138	1	10/01/2019 19:03	WG1354779
Vinyl chloride	U			0.000753	0.00275	1	10/01/2019 19:03	WG1354779
Xylenes, Total	U			0.00527	0.00716	1	10/01/2019 19:03	WG1354779
(S) Toluene-d8	*105*				*75.0-131*		*10/01/2019 19:03*	WG1354779
(S) 4-Bromofluorobenzene	*98.2*				*67.0-138*		*10/01/2019 19:03*	WG1354779
(S) 1,2-Dichloroethane-d4	*105*				*70.0-130*		*10/01/2019 19:03*	WG1354779

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.2		1	09/27/2019 11:08	WG1352847

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0422	B	0.0150	0.0274	1	09/29/2019 02:02	WG1354025
Acrylonitrile	U		0.00208	0.0137	1	09/29/2019 02:02	WG1354025
Benzene	0.000507 J	J	0.000439	0.00110	1	09/29/2019 02:02	WG1354025
Bromobenzene	U		0.00115	0.0137	1	09/29/2019 02:02	WG1354025
Bromodichloromethane	U		0.000864	0.00274	1	09/29/2019 02:02	WG1354025
Bromochloromethane	U		0.00124	0.00549	1	09/29/2019 02:02	WG1354025
Bromoform	U		0.00656	0.0274	1	09/29/2019 02:02	WG1354025
Bromomethane	U		0.00406	0.0137	1	09/29/2019 02:02	WG1354025
n-Butylbenzene	U		0.00421	0.0137	1	09/29/2019 02:02	WG1354025
sec-Butylbenzene	U		0.00278	0.0137	1	09/29/2019 02:02	WG1354025
tert-Butylbenzene	U		0.00170	0.00549	1	09/29/2019 02:02	WG1354025
Carbon disulfide	U		0.00445	0.0137	1	09/29/2019 02:02	WG1354025
Carbon tetrachloride	U		0.00118	0.00549	1	09/29/2019 02:02	WG1354025
Chlorobenzene	U		0.000629	0.00274	1	09/29/2019 02:02	WG1354025
Chlorodibromomethane	U		0.000494	0.00274	1	09/29/2019 02:02	WG1354025
Chloroethane	U		0.00118	0.00549	1	09/29/2019 02:02	WG1354025
Chloroform	0.000755 U	B J	0.000455	0.00274	1	09/29/2019 02:02	WG1354025
Chloromethane	U		0.00152	0.0137	1	09/29/2019 02:02	WG1354025
2-Chlorotoluene	U		0.00101	0.00274	1	09/29/2019 02:02	WG1354025
4-Chlorotoluene	U		0.00124	0.00549	1	09/29/2019 02:02	WG1354025
1,2-Dibromo-3-Chloropropane	U		0.00559	0.0274	1	09/29/2019 02:02	WG1354025
1,2-Dibromoethane	U		0.000576	0.00274	1	09/29/2019 02:02	WG1354025
Dibromomethane	U		0.00110	0.00549	1	09/29/2019 02:02	WG1354025
1,2-Dichlorobenzene	U		0.00159	0.00549	1	09/29/2019 02:02	WG1354025
1,3-Dichlorobenzene	U		0.00186	0.00549	1	09/29/2019 02:02	WG1354025
1,4-Dichlorobenzene	U		0.00216	0.00549	1	09/29/2019 02:02	WG1354025
Dichlorodifluoromethane	U		0.000897	0.00274	1	09/29/2019 02:02	WG1354025
1,1-Dichloroethane	U		0.000631	0.00274	1	09/29/2019 02:02	WG1354025
1,2-Dichloroethane	U		0.000521	0.00274	1	09/29/2019 02:02	WG1354025
1,1-Dichloroethene	U		0.000549	0.00274	1	09/29/2019 02:02	WG1354025
cis-1,2-Dichloroethene	U		0.000757	0.00274	1	09/29/2019 02:02	WG1354025
trans-1,2-Dichloroethene	U		0.00157	0.00549	1	09/29/2019 02:02	WG1354025
1,2-Dichloropropane	U		0.00139	0.00549	1	09/29/2019 02:02	WG1354025
1,1-Dichloropropene	U		0.000768	0.00274	1	09/29/2019 02:02	WG1354025
1,3-Dichloropropane	U		0.00192	0.00549	1	09/29/2019 02:02	WG1354025
cis-1,3-Dichloropropene	U		0.000744	0.00274	1	09/29/2019 02:02	WG1354025
trans-1,3-Dichloropropene	U		0.00168	0.00549	1	09/29/2019 02:02	WG1354025
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	09/29/2019 02:02	WG1354025
2,2-Dichloropropane	U		0.000870	0.00274	1	09/29/2019 02:02	WG1354025
Di-isopropyl ether	U		0.000384	0.00110	1	09/29/2019 02:02	WG1354025
Ethylbenzene	0.000641 J	J	0.000581	0.00274	1	09/29/2019 02:02	WG1354025
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	09/29/2019 02:02	WG1354025
2-Hexanone	U		0.0110	0.0274	1	09/29/2019 02:02	WG1354025
n-Hexane	U		0.00116	0.00549	1	09/29/2019 02:02	WG1354025
Iodomethane	U		0.00664	0.0137	1	09/29/2019 02:02	WG1354025
Isopropylbenzene	U		0.000947	0.00274	1	09/29/2019 02:02	WG1354025
p-Isopropyltoluene	U		0.00256	0.00549	1	09/29/2019 02:02	WG1354025
2-Butanone (MEK)	0.0153 U	B J	0.0137	0.0274	1	09/29/2019 02:02	WG1354025
Methylene Chloride	U		0.00728	0.0274	1	09/29/2019 02:02	WG1354025
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	09/29/2019 02:02	WG1354025

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	09/29/2019 02:02	WG1354025
Naphthalene	U		0.00342	0.0137	1	09/29/2019 02:02	WG1354025
n-Propylbenzene	U		0.00129	0.00549	1	09/29/2019 02:02	WG1354025
Styrene	U		0.00299	0.0137	1	09/29/2019 02:02	WG1354025
1,1,1,2-Tetrachloroethane	U		0.000549	0.00274	1	09/29/2019 02:02	WG1354025
1,1,2,2-Tetrachloroethane	U		0.000428	0.00274	1	09/29/2019 02:02	WG1354025
1,1,2-Trichlorotrifluoroethane	U		0.000740	0.00274	1	09/29/2019 02:02	WG1354025
Tetrachloroethene	0.00113 J	J J0	0.000768	0.00274	1	09/29/2019 02:02	WG1354025
Toluene	0.0123		0.00137	0.00549	1	09/29/2019 02:02	WG1354025
1,2,3-Trichlorobenzene	U		0.000686	0.00274	1	09/29/2019 02:02	WG1354025
1,2,4-Trichlorobenzene	U		0.00529	0.0137	1	09/29/2019 02:02	WG1354025
1,1,1-Trichloroethane	U		0.000302	0.00274	1	09/29/2019 02:02	WG1354025
1,1,2-Trichloroethane	U		0.000969	0.00274	1	09/29/2019 02:02	WG1354025
Trichloroethene	U		0.000439	0.00110	1	09/29/2019 02:02	WG1354025
Trichlorofluoromethane	U		0.000549	0.00274	1	09/29/2019 02:02	WG1354025
1,2,3-Trichloropropane	U		0.00559	0.0137	1	09/29/2019 02:02	WG1354025
1,2,4-Trimethylbenzene	U		0.00127	0.00549	1	09/29/2019 02:02	WG1354025
1,2,3-Trimethylbenzene	U		0.00126	0.00549	1	09/29/2019 02:02	WG1354025
1,3,5-Trimethylbenzene	U		0.00118	0.00549	1	09/29/2019 02:02	WG1354025
Vinyl acetate	U		0.00386	0.0137	1	09/29/2019 02:02	WG1354025
Vinyl chloride	0.00442		0.000749	0.00274	1	09/29/2019 02:02	WG1354025
Xylenes, Total	U		0.00524	0.00713	1	09/29/2019 02:02	WG1354025
(S) Toluene-d8	*106*			*75.0-131*		*09/29/2019 02:02*	WG1354025
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*09/29/2019 02:02*	WG1354025
(S) 1,2-Dichloroethane-d4	*96.3*			*70.0-130*		*09/29/2019 02:02*	WG1354025

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MW-2007-70
Collected date/time: 09/18/19 00:00

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.9		1	09/27/2019 11:08	WG1352847

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0828	B	0.0292	0.0533	2	09/29/2019 02:23	WG1354025
Acrylonitrile	U		0.00405	0.0266	2	09/29/2019 02:23	WG1354025
Benzene	0.00100 J	J	0.000852	0.00213	2	09/29/2019 02:23	WG1354025
Bromobenzene	U		0.00224	0.0266	2	09/29/2019 02:23	WG1354025
Bromodichloromethane	U		0.00168	0.00533	2	09/29/2019 02:23	WG1354025
Bromochloromethane	U		0.00241	0.0107	2	09/29/2019 02:23	WG1354025
Bromoform	U		0.0128	0.0533	2	09/29/2019 02:23	WG1354025
Bromomethane	U		0.00788	0.0266	2	09/29/2019 02:23	WG1354025
n-Butylbenzene	U		0.00818	0.0266	2	09/29/2019 02:23	WG1354025
sec-Butylbenzene	U		0.00539	0.0266	2	09/29/2019 02:23	WG1354025
tert-Butylbenzene	U		0.00330	0.0107	2	09/29/2019 02:23	WG1354025
Carbon disulfide	U		0.00865	0.0266	2	09/29/2019 02:23	WG1354025
Carbon tetrachloride	U		0.00230	0.0107	2	09/29/2019 02:23	WG1354025
Chlorobenzene	U		0.00123	0.00533	2	09/29/2019 02:23	WG1354025
Chlorodibromomethane	U		0.000959	0.00533	2	09/29/2019 02:23	WG1354025
Chloroethane	U		0.00230	0.0107	2	09/29/2019 02:23	WG1354025
Chloroform	0.00158 U	B J	0.000884	0.00533	2	09/29/2019 02:23	WG1354025
Chloromethane	U		0.00296	0.0266	2	09/29/2019 02:23	WG1354025
2-Chlorotoluene	U		0.00196	0.00533	2	09/29/2019 02:23	WG1354025
4-Chlorotoluene	U		0.00241	0.0107	2	09/29/2019 02:23	WG1354025
1,2-Dibromo-3-Chloropropane	U		0.0109	0.0533	2	09/29/2019 02:23	WG1354025
1,2-Dibromoethane	U		0.00112	0.00533	2	09/29/2019 02:23	WG1354025
Dibromomethane	U		0.00213	0.0107	2	09/29/2019 02:23	WG1354025
1,2-Dichlorobenzene	U		0.00309	0.0107	2	09/29/2019 02:23	WG1354025
1,3-Dichlorobenzene	U		0.00362	0.0107	2	09/29/2019 02:23	WG1354025
1,4-Dichlorobenzene	U		0.00420	0.0107	2	09/29/2019 02:23	WG1354025
Dichlorodifluoromethane	U		0.00175	0.00533	2	09/29/2019 02:23	WG1354025
1,1-Dichloroethane	U		0.00123	0.00533	2	09/29/2019 02:23	WG1354025
1,2-Dichloroethane	U		0.00101	0.00533	2	09/29/2019 02:23	WG1354025
1,1-Dichloroethene	U		0.00107	0.00533	2	09/29/2019 02:23	WG1354025
cis-1,2-Dichloroethene	U		0.00147	0.00533	2	09/29/2019 02:23	WG1354025
trans-1,2-Dichloroethene	U		0.00305	0.0107	2	09/29/2019 02:23	WG1354025
1,2-Dichloropropane	U		0.00271	0.0107	2	09/29/2019 02:23	WG1354025
1,1-Dichloropropene	U		0.00149	0.00533	2	09/29/2019 02:23	WG1354025
1,3-Dichloropropane	U		0.00373	0.0107	2	09/29/2019 02:23	WG1354025
cis-1,3-Dichloropropene	U		0.00145	0.00533	2	09/29/2019 02:23	WG1354025
trans-1,3-Dichloropropene	U		0.00326	0.0107	2	09/29/2019 02:23	WG1354025
trans-1,4-Dichloro-2-butene	U		0.00298	0.0107	2	09/29/2019 02:23	WG1354025
2,2-Dichloropropane	U		0.00169	0.00533	2	09/29/2019 02:23	WG1354025
Di-isopropyl ether	U		0.000746	0.00213	2	09/29/2019 02:23	WG1354025
Ethylbenzene	0.00168 J	J	0.00113	0.00533	2	09/29/2019 02:23	WG1354025
Hexachloro-1,3-butadiene	U		0.0271	0.0533	2	09/29/2019 02:23	WG1354025
2-Hexanone	U		0.0213	0.0533	2	09/29/2019 02:23	WG1354025
n-Hexane	U		0.00226	0.0107	2	09/29/2019 02:23	WG1354025
Iodomethane	U		0.0129	0.0266	2	09/29/2019 02:23	WG1354025
Isopropylbenzene	U		0.00184	0.00533	2	09/29/2019 02:23	WG1354025
p-Isopropyltoluene	U		0.00496	0.0107	2	09/29/2019 02:23	WG1354025
2-Butanone (MEK)	U		0.0266	0.0533	2	09/29/2019 02:23	WG1354025
Methylene Chloride	0.0185 J	J	0.0142	0.0533	2	09/29/2019 02:23	WG1354025
4-Methyl-2-pentanone (MIBK)	U		0.0213	0.0533	2	09/29/2019 02:23	WG1354025

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000629	0.00213	2	09/29/2019 02:23	WG1354025
Naphthalene	U		0.00665	0.0266	2	09/29/2019 02:23	WG1354025
n-Propylbenzene	U		0.00251	0.0107	2	09/29/2019 02:23	WG1354025
Styrene	U		0.00582	0.0266	2	09/29/2019 02:23	WG1354025
1,1,1,2-Tetrachloroethane	U		0.00107	0.00533	2	09/29/2019 02:23	WG1354025
1,1,2,2-Tetrachloroethane	U		0.000831	0.00533	2	09/29/2019 02:23	WG1354025
1,1,2-Trichlorotrifluoroethane	U		0.00144	0.00533	2	09/29/2019 02:23	WG1354025
Tetrachloroethene	0.00375 J	J J0	0.00149	0.00533	2	09/29/2019 02:23	WG1354025
Toluene	0.0366		0.00266	0.0107	2	09/29/2019 02:23	WG1354025
1,2,3-Trichlorobenzene	U		0.00133	0.00533	2	09/29/2019 02:23	WG1354025
1,2,4-Trichlorobenzene	U		0.0103	0.0266	2	09/29/2019 02:23	WG1354025
1,1,1-Trichloroethane	U		0.000586	0.00533	2	09/29/2019 02:23	WG1354025
1,1,2-Trichloroethane	U		0.00189	0.00533	2	09/29/2019 02:23	WG1354025
Trichloroethene	U		0.000852	0.00213	2	09/29/2019 02:23	WG1354025
Trichlorofluoromethane	U		0.00107	0.00533	2	09/29/2019 02:23	WG1354025
1,2,3-Trichloropropane	U		0.0109	0.0266	2	09/29/2019 02:23	WG1354025
1,2,4-Trimethylbenzene	U		0.00247	0.0107	2	09/29/2019 02:23	WG1354025
1,2,3-Trimethylbenzene	U		0.00245	0.0107	2	09/29/2019 02:23	WG1354025
1,3,5-Trimethylbenzene	U		0.00230	0.0107	2	09/29/2019 02:23	WG1354025
Vinyl acetate	U		0.00750	0.0266	2	09/29/2019 02:23	WG1354025
Vinyl chloride	U		0.00146	0.00533	2	09/29/2019 02:23	WG1354025
Xylenes, Total	U		0.0102	0.0138	2	09/29/2019 02:23	WG1354025
(S) Toluene-d8	*104*			*75.0-131*		*09/29/2019 02:23*	WG1354025
(S) 4-Bromofluorobenzene	*95.2*			*67.0-138*		*09/29/2019 02:23*	WG1354025
(S) 1,2-Dichloroethane-d4	*97.5*			*70.0-130*		*09/29/2019 02:23*	WG1354025

Sample Narrative:

L1141887-16 WG1354025: Dilution due to low sample volume.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.3		1	09/27/2019 15:31	WG1352853

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0409	B	0.0161	0.0293	1	09/29/2019 02:53	WG1354025
Acrylonitrile	U		0.00223	0.0146	1	09/29/2019 02:53	WG1354025
Benzene	U		0.000469	0.00117	1	09/29/2019 02:53	WG1354025
Bromobenzene	U		0.00123	0.0146	1	09/29/2019 02:53	WG1354025
Bromodichloromethane	U		0.000923	0.00293	1	09/29/2019 02:53	WG1354025
Bromochloromethane	U		0.00132	0.00586	1	09/29/2019 02:53	WG1354025
Bromoform	U		0.00701	0.0293	1	09/29/2019 02:53	WG1354025
Bromomethane	U		0.00434	0.0146	1	09/29/2019 02:53	WG1354025
n-Butylbenzene	U		0.00450	0.0146	1	09/29/2019 02:53	WG1354025
sec-Butylbenzene	U		0.00296	0.0146	1	09/29/2019 02:53	WG1354025
tert-Butylbenzene	U		0.00182	0.00586	1	09/29/2019 02:53	WG1354025
Carbon disulfide	U		0.00476	0.0146	1	09/29/2019 02:53	WG1354025
Carbon tetrachloride	U		0.00127	0.00586	1	09/29/2019 02:53	WG1354025
Chlorobenzene	U		0.000671	0.00293	1	09/29/2019 02:53	WG1354025
Chlorodibromomethane	U		0.000527	0.00293	1	09/29/2019 02:53	WG1354025
Chloroethane	U		0.00127	0.00586	1	09/29/2019 02:53	WG1354025
Chloroform	0.000796 U	B J	0.000486	0.00293	1	09/29/2019 02:53	WG1354025
Chloromethane	U		0.00163	0.0146	1	09/29/2019 02:53	WG1354025
2-Chlorotoluene	U		0.00108	0.00293	1	09/29/2019 02:53	WG1354025
4-Chlorotoluene	U		0.00132	0.00586	1	09/29/2019 02:53	WG1354025
1,2-Dibromo-3-Chloropropane	U		0.00598	0.0293	1	09/29/2019 02:53	WG1354025
1,2-Dibromoethane	U		0.000615	0.00293	1	09/29/2019 02:53	WG1354025
Dibromomethane	U		0.00117	0.00586	1	09/29/2019 02:53	WG1354025
1,2-Dichlorobenzene	U		0.00170	0.00586	1	09/29/2019 02:53	WG1354025
1,3-Dichlorobenzene	U		0.00199	0.00586	1	09/29/2019 02:53	WG1354025
1,4-Dichlorobenzene	U		0.00231	0.00586	1	09/29/2019 02:53	WG1354025
Dichlorodifluoromethane	U		0.000959	0.00293	1	09/29/2019 02:53	WG1354025
1,1-Dichloroethane	U		0.000674	0.00293	1	09/29/2019 02:53	WG1354025
1,2-Dichloroethane	U		0.000557	0.00293	1	09/29/2019 02:53	WG1354025
1,1-Dichloroethene	U		0.000586	0.00293	1	09/29/2019 02:53	WG1354025
cis-1,2-Dichloroethene	U		0.000809	0.00293	1	09/29/2019 02:53	WG1354025
trans-1,2-Dichloroethene	U		0.00168	0.00586	1	09/29/2019 02:53	WG1354025
1,2-Dichloropropane	U		0.00149	0.00586	1	09/29/2019 02:53	WG1354025
1,1-Dichloropropene	U		0.000820	0.00293	1	09/29/2019 02:53	WG1354025
1,3-Dichloropropane	U		0.00205	0.00586	1	09/29/2019 02:53	WG1354025
cis-1,3-Dichloropropene	U		0.000794	0.00293	1	09/29/2019 02:53	WG1354025
trans-1,3-Dichloropropene	U		0.00179	0.00586	1	09/29/2019 02:53	WG1354025
trans-1,4-Dichloro-2-butene	U		0.00164	0.00586	1	09/29/2019 02:53	WG1354025
2,2-Dichloropropane	U		0.000929	0.00293	1	09/29/2019 02:53	WG1354025
Di-isopropyl ether	U		0.000410	0.00117	1	09/29/2019 02:53	WG1354025
Ethylbenzene	0.000628 J	J	0.000621	0.00293	1	09/29/2019 02:53	WG1354025
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1	09/29/2019 02:53	WG1354025
2-Hexanone	U		0.0117	0.0293	1	09/29/2019 02:53	WG1354025
n-Hexane	U		0.00124	0.00586	1	09/29/2019 02:53	WG1354025
Iodomethane	U		0.00709	0.0146	1	09/29/2019 02:53	WG1354025
Isopropylbenzene	U		0.00101	0.00293	1	09/29/2019 02:53	WG1354025
p-Isopropyltoluene	U		0.00273	0.00586	1	09/29/2019 02:53	WG1354025
2-Butanone (MEK)	0.0224 U	B J	0.0146	0.0293	1	09/29/2019 02:53	WG1354025
Methylene Chloride	U		0.00778	0.0293	1	09/29/2019 02:53	WG1354025
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1	09/29/2019 02:53	WG1354025

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000346	0.00117	1	09/29/2019 02:53	WG1354025
Naphthalene	U		0.00366	0.0146	1	09/29/2019 02:53	WG1354025
n-Propylbenzene	U		0.00138	0.00586	1	09/29/2019 02:53	WG1354025
Styrene	U		0.00320	0.0146	1	09/29/2019 02:53	WG1354025
1,1,1,2-Tetrachloroethane	U		0.000586	0.00293	1	09/29/2019 02:53	WG1354025
1,1,2,2-Tetrachloroethane	U		0.000457	0.00293	1	09/29/2019 02:53	WG1354025
1,1,2-Trichlorotrifluoroethane	U		0.000791	0.00293	1	09/29/2019 02:53	WG1354025
Tetrachloroethene	0.00260 J	J J0	0.000820	0.00293	1	09/29/2019 02:53	WG1354025
Toluene	0.0191		0.00146	0.00586	1	09/29/2019 02:53	WG1354025
1,2,3-Trichlorobenzene	U		0.000732	0.00293	1	09/29/2019 02:53	WG1354025
1,2,4-Trichlorobenzene	U		0.00565	0.0146	1	09/29/2019 02:53	WG1354025
1,1,1-Trichloroethane	U		0.000322	0.00293	1	09/29/2019 02:53	WG1354025
1,1,2-Trichloroethane	U		0.00103	0.00293	1	09/29/2019 02:53	WG1354025
Trichloroethene	U		0.000469	0.00117	1	09/29/2019 02:53	WG1354025
Trichlorofluoromethane	U		0.000586	0.00293	1	09/29/2019 02:53	WG1354025
1,2,3-Trichloropropane	U		0.00598	0.0146	1	09/29/2019 02:53	WG1354025
1,2,4-Trimethylbenzene	0.00137 J	J	0.00136	0.00586	1	09/29/2019 02:53	WG1354025
1,2,3-Trimethylbenzene	U		0.00135	0.00586	1	09/29/2019 02:53	WG1354025
1,3,5-Trimethylbenzene	U		0.00127	0.00586	1	09/29/2019 02:53	WG1354025
Vinyl acetate	U		0.00412	0.0146	1	09/29/2019 02:53	WG1354025
Vinyl chloride	U		0.000800	0.00293	1	09/29/2019 02:53	WG1354025
Xylenes, Total	U		0.00560	0.00762	1	09/29/2019 02:53	WG1354025
(S) Toluene-d8	*106*			*75.0-131*		*09/29/2019 02:53*	WG1354025
(S) 4-Bromofluorobenzene	*96.1*			*67.0-138*		*09/29/2019 02:53*	WG1354025
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*09/29/2019 02:53*	WG1354025

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.9		1	09/27/2019 15:31	WG1352853

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0380	B	0.0151	0.0275	1	09/29/2019 03:15	WG1354025
Acrylonitrile	U		0.00209	0.0137	1	09/29/2019 03:15	WG1354025
Benzene	U		0.000440	0.00110	1	09/29/2019 03:15	WG1354025
Bromobenzene	U		0.00115	0.0137	1	09/29/2019 03:15	WG1354025
Bromodichloromethane	U		0.000866	0.00275	1	09/29/2019 03:15	WG1354025
Bromochloromethane	U		0.00124	0.00550	1	09/29/2019 03:15	WG1354025
Bromoform	U		0.00658	0.0275	1	09/29/2019 03:15	WG1354025
Bromomethane	U		0.00407	0.0137	1	09/29/2019 03:15	WG1354025
n-Butylbenzene	U		0.00422	0.0137	1	09/29/2019 03:15	WG1354025
sec-Butylbenzene	U		0.00278	0.0137	1	09/29/2019 03:15	WG1354025
tert-Butylbenzene	U		0.00170	0.00550	1	09/29/2019 03:15	WG1354025
Carbon disulfide	U		0.00446	0.0137	1	09/29/2019 03:15	WG1354025
Carbon tetrachloride	U		0.00119	0.00550	1	09/29/2019 03:15	WG1354025
Chlorobenzene	U		0.000630	0.00275	1	09/29/2019 03:15	WG1354025
Chlorodibromomethane	U		0.000495	0.00275	1	09/29/2019 03:15	WG1354025
Chloroethane	U		0.00119	0.00550	1	09/29/2019 03:15	WG1354025
Chloroform	0.000762 U	B J	0.000456	0.00275	1	09/29/2019 03:15	WG1354025
Chloromethane	U		0.00153	0.0137	1	09/29/2019 03:15	WG1354025
2-Chlorotoluene	U		0.00101	0.00275	1	09/29/2019 03:15	WG1354025
4-Chlorotoluene	U		0.00124	0.00550	1	09/29/2019 03:15	WG1354025
1,2-Dibromo-3-Chloropropane	U		0.00561	0.0275	1	09/29/2019 03:15	WG1354025
1,2-Dibromoethane	U		0.000577	0.00275	1	09/29/2019 03:15	WG1354025
Dibromomethane	U		0.00110	0.00550	1	09/29/2019 03:15	WG1354025
1,2-Dichlorobenzene	U		0.00159	0.00550	1	09/29/2019 03:15	WG1354025
1,3-Dichlorobenzene	U		0.00187	0.00550	1	09/29/2019 03:15	WG1354025
1,4-Dichlorobenzene	U		0.00217	0.00550	1	09/29/2019 03:15	WG1354025
Dichlorodifluoromethane	U		0.000899	0.00275	1	09/29/2019 03:15	WG1354025
1,1-Dichloroethane	U		0.000632	0.00275	1	09/29/2019 03:15	WG1354025
1,2-Dichloroethane	U		0.000522	0.00275	1	09/29/2019 03:15	WG1354025
1,1-Dichloroethene	U		0.000550	0.00275	1	09/29/2019 03:15	WG1354025
cis-1,2-Dichloroethene	U		0.000759	0.00275	1	09/29/2019 03:15	WG1354025
trans-1,2-Dichloroethene	U		0.00157	0.00550	1	09/29/2019 03:15	WG1354025
1,2-Dichloropropane	U		0.00140	0.00550	1	09/29/2019 03:15	WG1354025
1,1-Dichloropropene	U		0.000770	0.00275	1	09/29/2019 03:15	WG1354025
1,3-Dichloropropane	U		0.00192	0.00550	1	09/29/2019 03:15	WG1354025
cis-1,3-Dichloropropene	U		0.000745	0.00275	1	09/29/2019 03:15	WG1354025
trans-1,3-Dichloropropene	U		0.00168	0.00550	1	09/29/2019 03:15	WG1354025
trans-1,4-Dichloro-2-butene	U		0.00154	0.00550	1	09/29/2019 03:15	WG1354025
2,2-Dichloropropane	U		0.000872	0.00275	1	09/29/2019 03:15	WG1354025
Di-isopropyl ether	U		0.000385	0.00110	1	09/29/2019 03:15	WG1354025
Ethylbenzene	U		0.000583	0.00275	1	09/29/2019 03:15	WG1354025
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	09/29/2019 03:15	WG1354025
2-Hexanone	U		0.0110	0.0275	1	09/29/2019 03:15	WG1354025
n-Hexane	U		0.00117	0.00550	1	09/29/2019 03:15	WG1354025
Iodomethane	U		0.00665	0.0137	1	09/29/2019 03:15	WG1354025
Isopropylbenzene	U		0.000949	0.00275	1	09/29/2019 03:15	WG1354025
p-Isopropyltoluene	U		0.00256	0.00550	1	09/29/2019 03:15	WG1354025
2-Butanone (MEK)	0.0226 U	B J	0.0137	0.0275	1	09/29/2019 03:15	WG1354025
Methylene Chloride	0.00866 J	J	0.00730	0.0275	1	09/29/2019 03:15	WG1354025
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	09/29/2019 03:15	WG1354025

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	09/29/2019 03:15	WG1354025
Naphthalene	U		0.00343	0.0137	1	09/29/2019 03:15	WG1354025
n-Propylbenzene	U		0.00130	0.00550	1	09/29/2019 03:15	WG1354025
Styrene	U		0.00300	0.0137	1	09/29/2019 03:15	WG1354025
1,1,1,2-Tetrachloroethane	U		0.000550	0.00275	1	09/29/2019 03:15	WG1354025
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	09/29/2019 03:15	WG1354025
1,1,2-Trichlorotrifluoroethane	U		0.000742	0.00275	1	09/29/2019 03:15	WG1354025
Tetrachloroethene	0.00463 J	J0	0.000770	0.00275	1	09/29/2019 03:15	WG1354025
Toluene	0.00321 J	J	0.00137	0.00550	1	09/29/2019 03:15	WG1354025
1,2,3-Trichlorobenzene	U		0.000687	0.00275	1	09/29/2019 03:15	WG1354025
1,2,4-Trichlorobenzene	U		0.00530	0.0137	1	09/29/2019 03:15	WG1354025
1,1,1-Trichloroethane	U		0.000302	0.00275	1	09/29/2019 03:15	WG1354025
1,1,2-Trichloroethane	U		0.000971	0.00275	1	09/29/2019 03:15	WG1354025
Trichloroethene	U		0.000440	0.00110	1	09/29/2019 03:15	WG1354025
Trichlorofluoromethane	U		0.000550	0.00275	1	09/29/2019 03:15	WG1354025
1,2,3-Trichloropropane	U		0.00561	0.0137	1	09/29/2019 03:15	WG1354025
1,2,4-Trimethylbenzene	U		0.00128	0.00550	1	09/29/2019 03:15	WG1354025
1,2,3-Trimethylbenzene	U		0.00126	0.00550	1	09/29/2019 03:15	WG1354025
1,3,5-Trimethylbenzene	U		0.00119	0.00550	1	09/29/2019 03:15	WG1354025
Vinyl acetate	U		0.00387	0.0137	1	09/29/2019 03:15	WG1354025
Vinyl chloride	U		0.000751	0.00275	1	09/29/2019 03:15	WG1354025
Xylenes, Total	U		0.00526	0.00715	1	09/29/2019 03:15	WG1354025
(S) Toluene-d8	*107*			*75.0-131*		*09/29/2019 03:15*	WG1354025
(S) 4-Bromofluorobenzene	*97.9*			*67.0-138*		*09/29/2019 03:15*	WG1354025
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*09/29/2019 03:15*	WG1354025

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.1		1	09/27/2019 15:31	WG1352853

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0512	B	0.0156	0.0284	1	09/29/2019 03:36	WG1354025
Acrylonitrile	U		0.00216	0.0142	1	09/29/2019 03:36	WG1354025
Benzene	U		0.000454	0.00114	1	09/29/2019 03:36	WG1354025
Bromobenzene	U		0.00119	0.0142	1	09/29/2019 03:36	WG1354025
Bromodichloromethane	U		0.000895	0.00284	1	09/29/2019 03:36	WG1354025
Bromochloromethane	U		0.00128	0.00568	1	09/29/2019 03:36	WG1354025
Bromoform	U		0.00679	0.0284	1	09/29/2019 03:36	WG1354025
Bromomethane	U		0.00420	0.0142	1	09/29/2019 03:36	WG1354025
n-Butylbenzene	U		0.00436	0.0142	1	09/29/2019 03:36	WG1354025
sec-Butylbenzene	U		0.00287	0.0142	1	09/29/2019 03:36	WG1354025
tert-Butylbenzene	U		0.00176	0.00568	1	09/29/2019 03:36	WG1354025
Carbon disulfide	U		0.00461	0.0142	1	09/29/2019 03:36	WG1354025
Carbon tetrachloride	U		0.00123	0.00568	1	09/29/2019 03:36	WG1354025
Chlorobenzene	U		0.000650	0.00284	1	09/29/2019 03:36	WG1354025
Chlorodibromomethane	U		0.000511	0.00284	1	09/29/2019 03:36	WG1354025
Chloroethane	U		0.00123	0.00568	1	09/29/2019 03:36	WG1354025
Chloroform	0.000848 U	B J	0.000471	0.00284	1	09/29/2019 03:36	WG1354025
Chloromethane	U		0.00158	0.0142	1	09/29/2019 03:36	WG1354025
2-Chlorotoluene	U		0.00104	0.00284	1	09/29/2019 03:36	WG1354025
4-Chlorotoluene	U		0.00128	0.00568	1	09/29/2019 03:36	WG1354025
1,2-Dibromo-3-Chloropropane	U		0.00579	0.0284	1	09/29/2019 03:36	WG1354025
1,2-Dibromoethane	U		0.000596	0.00284	1	09/29/2019 03:36	WG1354025
Dibromomethane	U		0.00114	0.00568	1	09/29/2019 03:36	WG1354025
1,2-Dichlorobenzene	U		0.00165	0.00568	1	09/29/2019 03:36	WG1354025
1,3-Dichlorobenzene	U		0.00193	0.00568	1	09/29/2019 03:36	WG1354025
1,4-Dichlorobenzene	U		0.00224	0.00568	1	09/29/2019 03:36	WG1354025
Dichlorodifluoromethane	U		0.000929	0.00284	1	09/29/2019 03:36	WG1354025
1,1-Dichloroethane	U		0.000653	0.00284	1	09/29/2019 03:36	WG1354025
1,2-Dichloroethane	U		0.000539	0.00284	1	09/29/2019 03:36	WG1354025
1,1-Dichloroethene	U		0.000568	0.00284	1	09/29/2019 03:36	WG1354025
cis-1,2-Dichloroethene	U		0.000783	0.00284	1	09/29/2019 03:36	WG1354025
trans-1,2-Dichloroethene	U		0.00162	0.00568	1	09/29/2019 03:36	WG1354025
1,2-Dichloropropane	U		0.00144	0.00568	1	09/29/2019 03:36	WG1354025
1,1-Dichloropropene	U		0.000795	0.00284	1	09/29/2019 03:36	WG1354025
1,3-Dichloropropane	U		0.00199	0.00568	1	09/29/2019 03:36	WG1354025
cis-1,3-Dichloropropene	U		0.000770	0.00284	1	09/29/2019 03:36	WG1354025
trans-1,3-Dichloropropene	U		0.00174	0.00568	1	09/29/2019 03:36	WG1354025
trans-1,4-Dichloro-2-butene	U		0.00159	0.00568	1	09/29/2019 03:36	WG1354025
2,2-Dichloropropane	U		0.000900	0.00284	1	09/29/2019 03:36	WG1354025
Di-isopropyl ether	U		0.000397	0.00114	1	09/29/2019 03:36	WG1354025
Ethylbenzene	U		0.000602	0.00284	1	09/29/2019 03:36	WG1354025
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	09/29/2019 03:36	WG1354025
2-Hexanone	U		0.0114	0.0284	1	09/29/2019 03:36	WG1354025
n-Hexane	U		0.00120	0.00568	1	09/29/2019 03:36	WG1354025
Iodomethane	U		0.00687	0.0142	1	09/29/2019 03:36	WG1354025
Isopropylbenzene	U		0.000980	0.00284	1	09/29/2019 03:36	WG1354025
p-Isopropyltoluene	U		0.00265	0.00568	1	09/29/2019 03:36	WG1354025
2-Butanone (MEK)	0.0300	B	0.0142	0.0284	1	09/29/2019 03:36	WG1354025
Methylene Chloride	0.00859 J	J	0.00754	0.0284	1	09/29/2019 03:36	WG1354025
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0284	1	09/29/2019 03:36	WG1354025

JC 11/11/19

MW-301-15

Collected date/time: 09/20/19 13:00

SAMPLE RESULTS - 04

L1141922

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000335	0.00114	1	09/29/2019 03:36	WG1354025
Naphthalene	U		0.00354	0.0142	1	09/29/2019 03:36	WG1354025
n-Propylbenzene	U		0.00134	0.00568	1	09/29/2019 03:36	WG1354025
Styrene	U		0.00310	0.0142	1	09/29/2019 03:36	WG1354025
1,1,1,2-Tetrachloroethane	U		0.000568	0.00284	1	09/29/2019 03:36	WG1354025
1,1,2,2-Tetrachloroethane	U		0.000443	0.00284	1	09/29/2019 03:36	WG1354025
1,1,2-Trichlorotrifluoroethane	U		0.000766	0.00284	1	09/29/2019 03:36	WG1354025
Tetrachloroethene	0.00396 J	J0	0.000795	0.00284	1	09/29/2019 03:36	WG1354025
Toluene	0.0258		0.00142	0.00568	1	09/29/2019 03:36	WG1354025
1,2,3-Trichlorobenzene	U		0.000710	0.00284	1	09/29/2019 03:36	WG1354025
1,2,4-Trichlorobenzene	U		0.00547	0.0142	1	09/29/2019 03:36	WG1354025
1,1,1-Trichloroethane	U		0.000312	0.00284	1	09/29/2019 03:36	WG1354025
1,1,2-Trichloroethane	U		0.00100	0.00284	1	09/29/2019 03:36	WG1354025
Trichloroethene	U		0.000454	0.00114	1	09/29/2019 03:36	WG1354025
Trichlorofluoromethane	U		0.000568	0.00284	1	09/29/2019 03:36	WG1354025
1,2,3-Trichloropropane	U		0.00579	0.0142	1	09/29/2019 03:36	WG1354025
1,2,4-Trimethylbenzene	U		0.00132	0.00568	1	09/29/2019 03:36	WG1354025
1,2,3-Trimethylbenzene	U		0.00131	0.00568	1	09/29/2019 03:36	WG1354025
1,3,5-Trimethylbenzene	U		0.00123	0.00568	1	09/29/2019 03:36	WG1354025
Vinyl acetate	U		0.00400	0.0142	1	09/29/2019 03:36	WG1354025
Vinyl chloride	U		0.000775	0.00284	1	09/29/2019 03:36	WG1354025
Xylenes, Total	U		0.00543	0.00738	1	09/29/2019 03:36	WG1354025
(S) Toluene-d8	*105*			*75.0-131*		*09/29/2019 03:36*	WG1354025
(S) 4-Bromofluorobenzene	*95.8*			*67.0-138*		*09/29/2019 03:36*	WG1354025
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*		*09/29/2019 03:36*	WG1354025

JC 11/11/19

MW-301-20

Collected date/time: 09/20/19 13:05

SAMPLE RESULTS - 05

L1141922

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.5		1	09/27/2019 15:31	WG1352853

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.118	B	0.0462	0.0844	2.82	09/29/2019 03:58	WG1354025
Acrylonitrile	U		0.00642	0.0422	2.82	09/29/2019 03:58	WG1354025
Benzene	U		0.00135	0.00338	2.82	09/29/2019 03:58	WG1354025
Bromobenzene	U		0.00355	0.0422	2.82	09/29/2019 03:58	WG1354025
Bromodichloromethane	U		0.00266	0.00844	2.82	09/29/2019 03:58	WG1354025
Bromochloromethane	U		0.00382	0.0169	2.82	09/29/2019 03:58	WG1354025
Bromoform	U		0.0202	0.0844	2.82	09/29/2019 03:58	WG1354025
Bromomethane	U		0.0125	0.0422	2.82	09/29/2019 03:58	WG1354025
n-Butylbenzene	U		0.0129	0.0422	2.82	09/29/2019 03:58	WG1354025
sec-Butylbenzene	U		0.00854	0.0422	2.82	09/29/2019 03:58	WG1354025
tert-Butylbenzene	U		0.00523	0.0169	2.82	09/29/2019 03:58	WG1354025
Carbon disulfide	U		0.0137	0.0422	2.82	09/29/2019 03:58	WG1354025
Carbon tetrachloride	U		0.00364	0.0169	2.82	09/29/2019 03:58	WG1354025
Chlorobenzene	U		0.00194	0.00844	2.82	09/29/2019 03:58	WG1354025
Chlorodibromomethane	U		0.00152	0.00844	2.82	09/29/2019 03:58	WG1354025
Chloroethane	U		0.00364	0.0169	2.82	09/29/2019 03:58	WG1354025
Chloroform	0.00226 U	B J	0.00140	0.00844	2.82	09/29/2019 03:58	WG1354025
Chloromethane	U		0.00470	0.0422	2.82	09/29/2019 03:58	WG1354025
2-Chlorotoluene	U		0.00310	0.00844	2.82	09/29/2019 03:58	WG1354025
4-Chlorotoluene	U		0.00382	0.0169	2.82	09/29/2019 03:58	WG1354025
1,2-Dibromo-3-Chloropropane	U		0.0172	0.0844	2.82	09/29/2019 03:58	WG1354025
1,2-Dibromoethane	U		0.00177	0.00844	2.82	09/29/2019 03:58	WG1354025
Dibromomethane	U		0.00338	0.0169	2.82	09/29/2019 03:58	WG1354025
1,2-Dichlorobenzene	U		0.00490	0.0169	2.82	09/29/2019 03:58	WG1354025
1,3-Dichlorobenzene	U		0.00574	0.0169	2.82	09/29/2019 03:58	WG1354025
1,4-Dichlorobenzene	U		0.00666	0.0169	2.82	09/29/2019 03:58	WG1354025
Dichlorodifluoromethane	U		0.00277	0.00844	2.82	09/29/2019 03:58	WG1354025
1,1-Dichloroethane	U		0.00194	0.00844	2.82	09/29/2019 03:58	WG1354025
1,2-Dichloroethane	U		0.00161	0.00844	2.82	09/29/2019 03:58	WG1354025
1,1-Dichloroethene	U		0.00169	0.00844	2.82	09/29/2019 03:58	WG1354025
cis-1,2-Dichloroethene	U		0.00232	0.00844	2.82	09/29/2019 03:58	WG1354025
trans-1,2-Dichloroethene	U		0.00483	0.0169	2.82	09/29/2019 03:58	WG1354025
1,2-Dichloropropane	U		0.00429	0.0169	2.82	09/29/2019 03:58	WG1354025
1,1-Dichloropropene	U		0.00236	0.00844	2.82	09/29/2019 03:58	WG1354025
1,3-Dichloropropane	U		0.00592	0.0169	2.82	09/29/2019 03:58	WG1354025
cis-1,3-Dichloropropene	U		0.00229	0.00844	2.82	09/29/2019 03:58	WG1354025
trans-1,3-Dichloropropene	U		0.00516	0.0169	2.82	09/29/2019 03:58	WG1354025
trans-1,4-Dichloro-2-butene	U		0.00473	0.0169	2.82	09/29/2019 03:58	WG1354025
2,2-Dichloropropane	U		0.00268	0.00844	2.82	09/29/2019 03:58	WG1354025
Di-isopropyl ether	U		0.00118	0.00338	2.82	09/29/2019 03:58	WG1354025
Ethylbenzene	U		0.00178	0.00844	2.82	09/29/2019 03:58	WG1354025
Hexachloro-1,3-butadiene	U		0.0429	0.0844	2.82	09/29/2019 03:58	WG1354025
2-Hexanone	U		0.0338	0.0844	2.82	09/29/2019 03:58	WG1354025
n-Hexane	U		0.00358	0.0169	2.82	09/29/2019 03:58	WG1354025
Iodomethane	U		0.0205	0.0422	2.82	09/29/2019 03:58	WG1354025
Isopropylbenzene	U		0.00291	0.00844	2.82	09/29/2019 03:58	WG1354025
p-Isopropyltoluene	U		0.00787	0.0169	2.82	09/29/2019 03:58	WG1354025
2-Butanone (MEK)	0.0453 U	B J	0.0422	0.0844	2.82	09/29/2019 03:58	WG1354025
Methylene Chloride	0.0297 J	J	0.0224	0.0844	2.82	09/29/2019 03:58	WG1354025
4-Methyl-2-pentanone (MIBK)	U		0.0338	0.0844	2.82	09/29/2019 03:58	WG1354025

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000997	0.00338	2.82	09/29/2019 03:58	WG1354025
Naphthalene	U		0.0105	0.0422	2.82	09/29/2019 03:58	WG1354025
n-Propylbenzene	U		0.00399	0.0169	2.82	09/29/2019 03:58	WG1354025
Styrene	U		0.00922	0.0422	2.82	09/29/2019 03:58	WG1354025
1,1,1,2-Tetrachloroethane	U		0.00169	0.00844	2.82	09/29/2019 03:58	WG1354025
1,1,2,2-Tetrachloroethane	U		0.00132	0.00844	2.82	09/29/2019 03:58	WG1354025
1,1,2-Trichlorotrifluoroethane	U		0.00228	0.00844	2.82	09/29/2019 03:58	WG1354025
Tetrachloroethene	0.00927 J	J0	0.00236	0.00844	2.82	09/29/2019 03:58	WG1354025
Toluene	0.0402		0.00422	0.0169	2.82	09/29/2019 03:58	WG1354025
1,2,3-Trichlorobenzene	U		0.00211	0.00844	2.82	09/29/2019 03:58	WG1354025
1,2,4-Trichlorobenzene	U		0.0163	0.0422	2.82	09/29/2019 03:58	WG1354025
1,1,1-Trichloroethane	U		0.000929	0.00844	2.82	09/29/2019 03:58	WG1354025
1,1,2-Trichloroethane	U		0.00298	0.00844	2.82	09/29/2019 03:58	WG1354025
Trichloroethene	U		0.00135	0.00338	2.82	09/29/2019 03:58	WG1354025
Trichlorofluoromethane	U		0.00169	0.00844	2.82	09/29/2019 03:58	WG1354025
1,2,3-Trichloropropane	U		0.0172	0.0422	2.82	09/29/2019 03:58	WG1354025
1,2,4-Trimethylbenzene	U		0.00392	0.0169	2.82	09/29/2019 03:58	WG1354025
1,2,3-Trimethylbenzene	U		0.00388	0.0169	2.82	09/29/2019 03:58	WG1354025
1,3,5-Trimethylbenzene	U		0.00364	0.0169	2.82	09/29/2019 03:58	WG1354025
Vinyl acetate	U		0.0119	0.0422	2.82	09/29/2019 03:58	WG1354025
Vinyl chloride	U		0.00231	0.00844	2.82	09/29/2019 03:58	WG1354025
Xylenes, Total	U		0.0162	0.0220	2.82	09/29/2019 03:58	WG1354025
(S) Toluene-d8	*105*			*75.0-131*		*09/29/2019 03:58*	WG1354025
(S) 4-Bromofluorobenzene	*97.1*			*67.0-138*		*09/29/2019 03:58*	WG1354025
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*09/29/2019 03:58*	WG1354025

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.0		1	09/27/2019 15:31	WG1352853

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0408	B	0.0156	0.0284	1	09/29/2019 04:19	WG1354025
Acrylonitrile	U		0.00216	0.0142	1	09/29/2019 04:19	WG1354025
Benzene	U		0.000455	0.00114	1	09/29/2019 04:19	WG1354025
Bromobenzene	U		0.00119	0.0142	1	09/29/2019 04:19	WG1354025
Bromodichloromethane	U		0.000896	0.00284	1	09/29/2019 04:19	WG1354025
Bromochloromethane	U		0.00128	0.00568	1	09/29/2019 04:19	WG1354025
Bromoform	U		0.00680	0.0284	1	09/29/2019 04:19	WG1354025
Bromomethane	U		0.00421	0.0142	1	09/29/2019 04:19	WG1354025
n-Butylbenzene	U		0.00436	0.0142	1	09/29/2019 04:19	WG1354025
sec-Butylbenzene	U		0.00288	0.0142	1	09/29/2019 04:19	WG1354025
tert-Butylbenzene	U		0.00176	0.00568	1	09/29/2019 04:19	WG1354025
Carbon disulfide	U		0.00461	0.0142	1	09/29/2019 04:19	WG1354025
Carbon tetrachloride	U		0.00123	0.00568	1	09/29/2019 04:19	WG1354025
Chlorobenzene	U		0.000651	0.00284	1	09/29/2019 04:19	WG1354025
Chlorodibromomethane	U		0.000511	0.00284	1	09/29/2019 04:19	WG1354025
Chloroethane	U		0.00123	0.00568	1	09/29/2019 04:19	WG1354025
Chloroform	0.000822 U	B J	0.000472	0.00284	1	09/29/2019 04:19	WG1354025
Chloromethane	U		0.00158	0.0142	1	09/29/2019 04:19	WG1354025
2-Chlorotoluene	U		0.00105	0.00284	1	09/29/2019 04:19	WG1354025
4-Chlorotoluene	U		0.00128	0.00568	1	09/29/2019 04:19	WG1354025
1,2-Dibromo-3-Chloropropane	U		0.00580	0.0284	1	09/29/2019 04:19	WG1354025
1,2-Dibromoethane	U		0.000597	0.00284	1	09/29/2019 04:19	WG1354025
Dibromomethane	U		0.00114	0.00568	1	09/29/2019 04:19	WG1354025
1,2-Dichlorobenzene	U		0.00165	0.00568	1	09/29/2019 04:19	WG1354025
1,3-Dichlorobenzene	U		0.00193	0.00568	1	09/29/2019 04:19	WG1354025
1,4-Dichlorobenzene	U		0.00224	0.00568	1	09/29/2019 04:19	WG1354025
Dichlorodifluoromethane	U		0.000930	0.00284	1	09/29/2019 04:19	WG1354025
1,1-Dichloroethane	U		0.000654	0.00284	1	09/29/2019 04:19	WG1354025
1,2-Dichloroethane	U		0.000540	0.00284	1	09/29/2019 04:19	WG1354025
1,1-Dichloroethene	U		0.000568	0.00284	1	09/29/2019 04:19	WG1354025
cis-1,2-Dichloroethene	U		0.000784	0.00284	1	09/29/2019 04:19	WG1354025
trans-1,2-Dichloroethene	U		0.00163	0.00568	1	09/29/2019 04:19	WG1354025
1,2-Dichloropropane	U		0.00144	0.00568	1	09/29/2019 04:19	WG1354025
1,1-Dichloropropene	U		0.000796	0.00284	1	09/29/2019 04:19	WG1354025
1,3-Dichloropropane	U		0.00199	0.00568	1	09/29/2019 04:19	WG1354025
cis-1,3-Dichloropropene	U		0.000771	0.00284	1	09/29/2019 04:19	WG1354025
trans-1,3-Dichloropropene	U		0.00174	0.00568	1	09/29/2019 04:19	WG1354025
trans-1,4-Dichloro-2-butene	U		0.00159	0.00568	1	09/29/2019 04:19	WG1354025
2,2-Dichloropropane	U		0.000901	0.00284	1	09/29/2019 04:19	WG1354025
Di-isopropyl ether	U		0.000398	0.00114	1	09/29/2019 04:19	WG1354025
Ethylbenzene	0.00121 J	J	0.000602	0.00284	1	09/29/2019 04:19	WG1354025
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	09/29/2019 04:19	WG1354025
2-Hexanone	U		0.0114	0.0284	1	09/29/2019 04:19	WG1354025
n-Hexane	U		0.00120	0.00568	1	09/29/2019 04:19	WG1354025
Iodomethane	U		0.00688	0.0142	1	09/29/2019 04:19	WG1354025
Isopropylbenzene	U		0.000981	0.00284	1	09/29/2019 04:19	WG1354025
p-Isopropyltoluene	U		0.00265	0.00568	1	09/29/2019 04:19	WG1354025
2-Butanone (MEK)	0.0291	B	0.0142	0.0284	1	09/29/2019 04:19	WG1354025
Methylene Chloride	0.00891 J	J	0.00755	0.0284	1	09/29/2019 04:19	WG1354025
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0284	1	09/29/2019 04:19	WG1354025

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.000532 J	J	0.000335	0.00114	1	09/29/2019 04:19	WG1354025
Naphthalene	U		0.00355	0.0142	1	09/29/2019 04:19	WG1354025
n-Propylbenzene	U		0.00134	0.00568	1	09/29/2019 04:19	WG1354025
Styrene	U		0.00310	0.0142	1	09/29/2019 04:19	WG1354025
1,1,1,2-Tetrachloroethane	U		0.000568	0.00284	1	09/29/2019 04:19	WG1354025
1,1,2,2-Tetrachloroethane	U		0.000443	0.00284	1	09/29/2019 04:19	WG1354025
1,1,2-Trichlorotrifluoroethane	U		0.000767	0.00284	1	09/29/2019 04:19	WG1354025
Tetrachloroethene	0.0326 J	J0	0.000796	0.00284	1	09/29/2019 04:19	WG1354025
Toluene	0.0329		0.00142	0.00568	1	09/29/2019 04:19	WG1354025
1,2,3-Trichlorobenzene	U		0.000710	0.00284	1	09/29/2019 04:19	WG1354025
1,2,4-Trichlorobenzene	U		0.00548	0.0142	1	09/29/2019 04:19	WG1354025
1,1,1-Trichloroethane	U		0.000313	0.00284	1	09/29/2019 04:19	WG1354025
1,1,2-Trichloroethane	U		0.00100	0.00284	1	09/29/2019 04:19	WG1354025
Trichloroethene	0.00173		0.000455	0.00114	1	09/29/2019 04:19	WG1354025
Trichlorofluoromethane	U		0.000568	0.00284	1	09/29/2019 04:19	WG1354025
1,2,3-Trichloropropane	U		0.00580	0.0142	1	09/29/2019 04:19	WG1354025
1,2,4-Trimethylbenzene	U		0.00132	0.00568	1	09/29/2019 04:19	WG1354025
1,2,3-Trimethylbenzene	U		0.00131	0.00568	1	09/29/2019 04:19	WG1354025
1,3,5-Trimethylbenzene	U		0.00123	0.00568	1	09/29/2019 04:19	WG1354025
Vinyl acetate	U		0.00400	0.0142	1	09/29/2019 04:19	WG1354025
Vinyl chloride	U		0.000776	0.00284	1	09/29/2019 04:19	WG1354025
Xylenes, Total	U		0.00543	0.00739	1	09/29/2019 04:19	WG1354025
(S) Toluene-d8	*107*			*75.0-131*		*09/29/2019 04:19*	WG1354025
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*09/29/2019 04:19*	WG1354025
(S) 1,2-Dichloroethane-d4	*98.0*			*70.0-130*		*09/29/2019 04:19*	WG1354025

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.2		1	09/27/2019 15:31	WG1352853

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0652		B	0.0170	0.0309	1.19	09/29/2019 04:40	WG1354025
Acrylonitrile	U			0.00235	0.0155	1.19	09/29/2019 04:40	WG1354025
Benzene	U			0.000495	0.00124	1.19	09/29/2019 04:40	WG1354025
Bromobenzene	U			0.00130	0.0155	1.19	09/29/2019 04:40	WG1354025
Bromodichloromethane	U			0.000975	0.00309	1.19	09/29/2019 04:40	WG1354025
Bromochloromethane	U			0.00139	0.00619	1.19	09/29/2019 04:40	WG1354025
Bromoform	U			0.00740	0.0309	1.19	09/29/2019 04:40	WG1354025
Bromomethane	U			0.00458	0.0155	1.19	09/29/2019 04:40	WG1354025
n-Butylbenzene	U			0.00475	0.0155	1.19	09/29/2019 04:40	WG1354025
sec-Butylbenzene	U			0.00313	0.0155	1.19	09/29/2019 04:40	WG1354025
tert-Butylbenzene	U			0.00191	0.00619	1.19	09/29/2019 04:40	WG1354025
Carbon disulfide	U			0.00502	0.0155	1.19	09/29/2019 04:40	WG1354025
Carbon tetrachloride	U			0.00133	0.00619	1.19	09/29/2019 04:40	WG1354025
Chlorobenzene	U			0.000709	0.00309	1.19	09/29/2019 04:40	WG1354025
Chlorodibromomethane	U			0.000557	0.00309	1.19	09/29/2019 04:40	WG1354025
Chloroethane	U			0.00133	0.00619	1.19	09/29/2019 04:40	WG1354025
Chloroform	0.00122	U	B J	0.000514	0.00309	1.19	09/29/2019 04:40	WG1354025
Chloromethane	U			0.00172	0.0155	1.19	09/29/2019 04:40	WG1354025
2-Chlorotoluene	U			0.00113	0.00309	1.19	09/29/2019 04:40	WG1354025
4-Chlorotoluene	U			0.00139	0.00619	1.19	09/29/2019 04:40	WG1354025
1,2-Dibromo-3-Chloropropane	U			0.00631	0.0309	1.19	09/29/2019 04:40	WG1354025
1,2-Dibromoethane	U			0.000650	0.00309	1.19	09/29/2019 04:40	WG1354025
Dibromomethane	U			0.00124	0.00619	1.19	09/29/2019 04:40	WG1354025
1,2-Dichlorobenzene	U			0.00179	0.00619	1.19	09/29/2019 04:40	WG1354025
1,3-Dichlorobenzene	U			0.00210	0.00619	1.19	09/29/2019 04:40	WG1354025
1,4-Dichlorobenzene	U			0.00243	0.00619	1.19	09/29/2019 04:40	WG1354025
Dichlorodifluoromethane	U			0.00101	0.00309	1.19	09/29/2019 04:40	WG1354025
1,1-Dichloroethane	U			0.000711	0.00309	1.19	09/29/2019 04:40	WG1354025
1,2-Dichloroethane	U			0.000588	0.00309	1.19	09/29/2019 04:40	WG1354025
1,1-Dichloroethene	U			0.000619	0.00309	1.19	09/29/2019 04:40	WG1354025
cis-1,2-Dichloroethene	U			0.000854	0.00309	1.19	09/29/2019 04:40	WG1354025
trans-1,2-Dichloroethene	U			0.00177	0.00619	1.19	09/29/2019 04:40	WG1354025
1,2-Dichloropropane	U			0.00157	0.00619	1.19	09/29/2019 04:40	WG1354025
1,1-Dichloropropene	U			0.000866	0.00309	1.19	09/29/2019 04:40	WG1354025
1,3-Dichloropropane	U			0.00216	0.00619	1.19	09/29/2019 04:40	WG1354025
cis-1,3-Dichloropropene	U			0.000839	0.00309	1.19	09/29/2019 04:40	WG1354025
trans-1,3-Dichloropropene	U			0.00189	0.00619	1.19	09/29/2019 04:40	WG1354025
trans-1,4-Dichloro-2-butene	U			0.00174	0.00619	1.19	09/29/2019 04:40	WG1354025
2,2-Dichloropropane	U			0.000982	0.00309	1.19	09/29/2019 04:40	WG1354025
Di-isopropyl ether	U			0.000433	0.00124	1.19	09/29/2019 04:40	WG1354025
Ethylbenzene	0.00111	J	J	0.000656	0.00309	1.19	09/29/2019 04:40	WG1354025
Hexachloro-1,3-butadiene	U			0.0157	0.0309	1.19	09/29/2019 04:40	WG1354025
2-Hexanone	U			0.0124	0.0309	1.19	09/29/2019 04:40	WG1354025
n-Hexane	U			0.00131	0.00619	1.19	09/29/2019 04:40	WG1354025
Iodomethane	U			0.00749	0.0155	1.19	09/29/2019 04:40	WG1354025
Isopropylbenzene	U			0.00107	0.00309	1.19	09/29/2019 04:40	WG1354025
p-Isopropyltoluene	U			0.00288	0.00619	1.19	09/29/2019 04:40	WG1354025
2-Butanone (MEK)	0.0301	U	B J	0.0155	0.0309	1.19	09/29/2019 04:40	WG1354025
Methylene Chloride	0.0124	J	J	0.00822	0.0309	1.19	09/29/2019 04:40	WG1354025
4-Methyl-2-pentanone (MIBK)	U			0.0124	0.0309	1.19	09/29/2019 04:40	WG1354025

JC 11/11/19

MW-301-30

Collected date/time: 09/20/19 13:37

SAMPLE RESULTS - 07

L1141922

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000365	0.00124	1.19	09/29/2019 04:40	WG1354025
Naphthalene	U		0.00386	0.0155	1.19	09/29/2019 04:40	WG1354025
n-Propylbenzene	U		0.00146	0.00619	1.19	09/29/2019 04:40	WG1354025
Styrene	U		0.00338	0.0155	1.19	09/29/2019 04:40	WG1354025
1,1,1,2-Tetrachloroethane	U		0.000619	0.00309	1.19	09/29/2019 04:40	WG1354025
1,1,2,2-Tetrachloroethane	U		0.000483	0.00309	1.19	09/29/2019 04:40	WG1354025
1,1,2-Trichlorotrifluoroethane	U		0.000835	0.00309	1.19	09/29/2019 04:40	WG1354025
Tetrachloroethene	0.0141 J	J0	0.000866	0.00309	1.19	09/29/2019 04:40	WG1354025
Toluene	0.0376		0.00155	0.00619	1.19	09/29/2019 04:40	WG1354025
1,2,3-Trichlorobenzene	U		0.000774	0.00309	1.19	09/29/2019 04:40	WG1354025
1,2,4-Trichlorobenzene	U		0.00597	0.0155	1.19	09/29/2019 04:40	WG1354025
1,1,1-Trichloroethane	U		0.000340	0.00309	1.19	09/29/2019 04:40	WG1354025
1,1,2-Trichloroethane	U		0.00109	0.00309	1.19	09/29/2019 04:40	WG1354025
Trichloroethene	U		0.000495	0.00124	1.19	09/29/2019 04:40	WG1354025
Trichlorofluoromethane	U		0.000619	0.00309	1.19	09/29/2019 04:40	WG1354025
1,2,3-Trichloropropane	U		0.00631	0.0155	1.19	09/29/2019 04:40	WG1354025
1,2,4-Trimethylbenzene	U		0.00144	0.00619	1.19	09/29/2019 04:40	WG1354025
1,2,3-Trimethylbenzene	U		0.00142	0.00619	1.19	09/29/2019 04:40	WG1354025
1,3,5-Trimethylbenzene	U		0.00133	0.00619	1.19	09/29/2019 04:40	WG1354025
Vinyl acetate	U		0.00436	0.0155	1.19	09/29/2019 04:40	WG1354025
Vinyl chloride	U		0.000845	0.00309	1.19	09/29/2019 04:40	WG1354025
Xylenes, Total	U		0.00592	0.00804	1.19	09/29/2019 04:40	WG1354025
(S) Toluene-d8	*106*			*75.0-131*		*09/29/2019 04:40*	WG1354025
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*09/29/2019 04:40*	WG1354025
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*09/29/2019 04:40*	WG1354025

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.8		1	10/12/2019 13:04	WG1361905

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0154	0.0282	1	10/14/2019 16:20	WG1362682	
Acrylonitrile	U		0.00214	0.0141	1	10/14/2019 16:20	WG1362682	
Benzene	U		0.000451	0.00113	1	10/14/2019 16:20	WG1362682	
Bromobenzene	U		0.00118	0.0141	1	10/14/2019 16:20	WG1362682	
Bromodichloromethane	U		0.000888	0.00282	1	10/14/2019 16:20	WG1362682	
Bromochloromethane	U		0.00127	0.00563	1	10/14/2019 16:20	WG1362682	
Bromoform	U		0.00674	0.0282	1	10/14/2019 16:20	WG1362682	
Bromomethane	U		0.00417	0.0141	1	10/14/2019 16:20	WG1362682	
n-Butylbenzene	U		0.00433	0.0141	1	10/14/2019 16:20	WG1362682	
sec-Butylbenzene	U		0.00285	0.0141	1	10/14/2019 16:20	WG1362682	
tert-Butylbenzene	U		0.00175	0.00563	1	10/14/2019 16:20	WG1362682	
Carbon disulfide	U		0.00457	0.0141	1	10/14/2019 16:20	WG1362682	
Carbon tetrachloride	U		0.00122	0.00563	1	10/14/2019 16:20	WG1362682	
Chlorobenzene	U		0.000645	0.00282	1	10/14/2019 16:20	WG1362682	
Chlorodibromomethane	U		0.000507	0.00282	1	10/14/2019 16:20	WG1362682	
Chloroethane	U		0.00122	0.00563	1	10/14/2019 16:20	WG1362682	
Chloroform	U		0.000467	0.00282	1	10/14/2019 16:20	WG1362682	
Chloromethane	U		0.00157	0.0141	1	10/14/2019 16:20	WG1362682	
2-Chlorotoluene	U		0.00104	0.00282	1	10/14/2019 16:20	WG1362682	
4-Chlorotoluene	U		0.00127	0.00563	1	10/14/2019 16:20	WG1362682	
1,2-Dibromo-3-Chloropropane	U		0.00574	0.0282	1	10/14/2019 16:20	WG1362682	
1,2-Dibromoethane	U		0.000591	0.00282	1	10/14/2019 16:20	WG1362682	
Dibromomethane	U		0.00113	0.00563	1	10/14/2019 16:20	WG1362682	
1,2-Dichlorobenzene	U		0.00163	0.00563	1	10/14/2019 16:20	WG1362682	
1,3-Dichlorobenzene	U		0.00191	0.00563	1	10/14/2019 16:20	WG1362682	
1,4-Dichlorobenzene	U		0.00222	0.00563	1	10/14/2019 16:20	WG1362682	
Dichlorodifluoromethane	U		0.000921	0.00282	1	10/14/2019 16:20	WG1362682	
1,1-Dichloroethane	U		0.000648	0.00282	1	10/14/2019 16:20	WG1362682	
1,2-Dichloroethane	U		0.000535	0.00282	1	10/14/2019 16:20	WG1362682	
1,1-Dichloroethene	U		0.000563	0.00282	1	10/14/2019 16:20	WG1362682	
cis-1,2-Dichloroethene	U		0.000777	0.00282	1	10/14/2019 16:20	WG1362682	
trans-1,2-Dichloroethene	U		0.00161	0.00563	1	10/14/2019 16:20	WG1362682	
1,2-Dichloropropane	U		0.00143	0.00563	1	10/14/2019 16:20	WG1362682	
1,1-Dichloropropene	U		0.000788	0.00282	1	10/14/2019 16:20	WG1362682	
1,3-Dichloropropane	U		0.00197	0.00563	1	10/14/2019 16:20	WG1362682	
cis-1,3-Dichloropropene	U		0.000764	0.00282	1	10/14/2019 16:20	WG1362682	
trans-1,3-Dichloropropene	U		0.00172	0.00563	1	10/14/2019 16:20	WG1362682	
trans-1,4-Dichloro-2-butene	U		0.00158	0.00563	1	10/14/2019 16:20	WG1362682	
2,2-Dichloropropane	U		0.000893	0.00282	1	10/14/2019 16:20	WG1362682	
Di-isopropyl ether	U		0.000394	0.00113	1	10/14/2019 16:20	WG1362682	
Ethylbenzene	U		0.000597	0.00282	1	10/14/2019 16:20	WG1362682	
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	10/14/2019 16:20	WG1362682	
2-Hexanone	U		0.0113	0.0282	1	10/14/2019 16:20	WG1362682	
n-Hexane	U		0.00119	0.00563	1	10/14/2019 16:20	WG1362682	
Iodomethane	U		0.00681	0.0141	1	10/14/2019 16:20	WG1362682	
Isopropylbenzene	U		0.000972	0.00282	1	10/14/2019 16:20	WG1362682	
p-Isopropyltoluene	U		0.00262	0.00563	1	10/14/2019 16:20	WG1362682	
2-Butanone (MEK)	0.0178 U	B J J0	0.0141	0.0282	1	10/14/2019 16:20	WG1362682	JC 11/11/19
Methylene Chloride	U		0.00748	0.0282	1	10/14/2019 16:20	WG1362682	
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	10/14/2019 16:20	WG1362682	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000332	0.00113	1	10/14/2019 16:20	WG1362682
Naphthalene	0.00560	J	J	0.00351	0.0141	1	10/14/2019 16:20	WG1362682
n-Propylbenzene	U			0.00133	0.00563	1	10/14/2019 16:20	WG1362682
Styrene	U			0.00307	0.0141	1	10/14/2019 16:20	WG1362682
1,1,1,2-Tetrachloroethane	U			0.000563	0.00282	1	10/14/2019 16:20	WG1362682
1,1,2,2-Tetrachloroethane	U			0.000439	0.00282	1	10/14/2019 16:20	WG1362682
1,1,2-Trichlorotrifluoroethane	U			0.000760	0.00282	1	10/14/2019 16:20	WG1362682
Tetrachloroethene	0.0250			0.000788	0.00282	1	10/14/2019 16:20	WG1362682
Toluene	0.00212	J	J	0.00141	0.00563	1	10/14/2019 16:20	WG1362682
1,2,3-Trichlorobenzene	0.00121	J	J	0.000704	0.00282	1	10/14/2019 16:20	WG1362682
1,2,4-Trichlorobenzene	0.0199			0.00543	0.0141	1	10/14/2019 16:20	WG1362682
1,1,1-Trichloroethane	U			0.000310	0.00282	1	10/14/2019 16:20	WG1362682
1,1,2-Trichloroethane	U			0.000995	0.00282	1	10/14/2019 16:20	WG1362682
Trichloroethene	U			0.000451	0.00113	1	10/14/2019 16:20	WG1362682
Trichlorofluoromethane	U			0.000563	0.00282	1	10/14/2019 16:20	WG1362682
1,2,3-Trichloropropane	U			0.00574	0.0141	1	10/14/2019 16:20	WG1362682
1,2,4-Trimethylbenzene	U			0.00131	0.00563	1	10/14/2019 16:20	WG1362682
1,2,3-Trimethylbenzene	U			0.00130	0.00563	1	10/14/2019 16:20	WG1362682
1,3,5-Trimethylbenzene	U			0.00122	0.00563	1	10/14/2019 16:20	WG1362682
Vinyl acetate	U			0.00396	0.0141	1	10/14/2019 16:20	WG1362682
Vinyl chloride	U			0.000769	0.00282	1	10/14/2019 16:20	WG1362682
Xylenes, Total	U			0.00538	0.00732	1	10/14/2019 16:20	WG1362682
(S) Toluene-d8	*99.5*				*75.0-131*		*10/14/2019 16:20*	WG1362682
(S) 4-Bromofluorobenzene	*98.9*				*67.0-138*		*10/14/2019 16:20*	WG1362682
(S) 1,2-Dichloroethane-d4	*98.4*				*70.0-130*		*10/14/2019 16:20*	WG1362682

JC 11/11/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.8		1	10/12/2019 13:04	WG1361905

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0156	0.0285	1	10/14/2019 16:41	WG1362682
Acrylonitrile	U		0.00216	0.0142	1	10/14/2019 16:41	WG1362682
Benzene	U		0.000456	0.00114	1	10/14/2019 16:41	WG1362682
Bromobenzene	U		0.00120	0.0142	1	10/14/2019 16:41	WG1362682
Bromodichloromethane	U		0.000898	0.00285	1	10/14/2019 16:41	WG1362682
Bromochloromethane	U		0.00129	0.00570	1	10/14/2019 16:41	WG1362682
Bromoform	U		0.00681	0.0285	1	10/14/2019 16:41	WG1362682
Bromomethane	U		0.00422	0.0142	1	10/14/2019 16:41	WG1362682
n-Butylbenzene	U		0.00438	0.0142	1	10/14/2019 16:41	WG1362682
sec-Butylbenzene	U		0.00288	0.0142	1	10/14/2019 16:41	WG1362682
tert-Butylbenzene	U		0.00177	0.00570	1	10/14/2019 16:41	WG1362682
Carbon disulfide	U		0.00463	0.0142	1	10/14/2019 16:41	WG1362682
Carbon tetrachloride	U		0.00123	0.00570	1	10/14/2019 16:41	WG1362682
Chlorobenzene	U		0.000653	0.00285	1	10/14/2019 16:41	WG1362682
Chlorodibromomethane	U		0.000513	0.00285	1	10/14/2019 16:41	WG1362682
Chloroethane	U		0.00123	0.00570	1	10/14/2019 16:41	WG1362682
Chloroform	0.000522 U	B J	0.000473	0.00285	1	10/14/2019 16:41	WG1362682
Chloromethane	U		0.00158	0.0142	1	10/14/2019 16:41	WG1362682
2-Chlorotoluene	U		0.00105	0.00285	1	10/14/2019 16:41	WG1362682
4-Chlorotoluene	U		0.00129	0.00570	1	10/14/2019 16:41	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00581	0.0285	1	10/14/2019 16:41	WG1362682
1,2-Dibromoethane	U		0.000598	0.00285	1	10/14/2019 16:41	WG1362682
Dibromomethane	U		0.00114	0.00570	1	10/14/2019 16:41	WG1362682
1,2-Dichlorobenzene	U		0.00165	0.00570	1	10/14/2019 16:41	WG1362682
1,3-Dichlorobenzene	U		0.00194	0.00570	1	10/14/2019 16:41	WG1362682
1,4-Dichlorobenzene	U		0.00224	0.00570	1	10/14/2019 16:41	WG1362682
Dichlorodifluoromethane	U		0.000932	0.00285	1	10/14/2019 16:41	WG1362682
1,1-Dichloroethane	U		0.000655	0.00285	1	10/14/2019 16:41	WG1362682
1,2-Dichloroethane	U		0.000541	0.00285	1	10/14/2019 16:41	WG1362682
1,1-Dichloroethene	U		0.000570	0.00285	1	10/14/2019 16:41	WG1362682
cis-1,2-Dichloroethene	U		0.000786	0.00285	1	10/14/2019 16:41	WG1362682
trans-1,2-Dichloroethene	U		0.00163	0.00570	1	10/14/2019 16:41	WG1362682
1,2-Dichloropropane	U		0.00145	0.00570	1	10/14/2019 16:41	WG1362682
1,1-Dichloropropene	U		0.000798	0.00285	1	10/14/2019 16:41	WG1362682
1,3-Dichloropropane	U		0.00199	0.00570	1	10/14/2019 16:41	WG1362682
cis-1,3-Dichloropropene	U		0.000773	0.00285	1	10/14/2019 16:41	WG1362682
trans-1,3-Dichloropropene	U		0.00174	0.00570	1	10/14/2019 16:41	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00160	0.00570	1	10/14/2019 16:41	WG1362682
2,2-Dichloropropane	U		0.000904	0.00285	1	10/14/2019 16:41	WG1362682
Di-isopropyl ether	U		0.000399	0.00114	1	10/14/2019 16:41	WG1362682
Ethylbenzene	U		0.000604	0.00285	1	10/14/2019 16:41	WG1362682
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	10/14/2019 16:41	WG1362682
2-Hexanone	U		0.0114	0.0285	1	10/14/2019 16:41	WG1362682
n-Hexane	U		0.00121	0.00570	1	10/14/2019 16:41	WG1362682
Iodomethane	U		0.00689	0.0142	1	10/14/2019 16:41	WG1362682
Isopropylbenzene	U		0.000983	0.00285	1	10/14/2019 16:41	WG1362682
p-Isopropyltoluene	U		0.00265	0.00570	1	10/14/2019 16:41	WG1362682
2-Butanone (MEK)	0.0216 U	B J J0	0.0142	0.0285	1	10/14/2019 16:41	WG1362682
Methylene Chloride	U		0.00757	0.0285	1	10/14/2019 16:41	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	10/14/2019 16:41	WG1362682

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000336	0.00114	1	10/14/2019 16:41	WG1362682
Naphthalene	U		0.00356	0.0142	1	10/14/2019 16:41	WG1362682
n-Propylbenzene	U		0.00134	0.00570	1	10/14/2019 16:41	WG1362682
Styrene	U		0.00311	0.0142	1	10/14/2019 16:41	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000570	0.00285	1	10/14/2019 16:41	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000444	0.00285	1	10/14/2019 16:41	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000769	0.00285	1	10/14/2019 16:41	WG1362682
Tetrachloroethene	0.0198		0.000798	0.00285	1	10/14/2019 16:41	WG1362682
Toluene	0.00202 J	J	0.00142	0.00570	1	10/14/2019 16:41	WG1362682
1,2,3-Trichlorobenzene	U		0.000712	0.00285	1	10/14/2019 16:41	WG1362682
1,2,4-Trichlorobenzene	U		0.00549	0.0142	1	10/14/2019 16:41	WG1362682
1,1,1-Trichloroethane	U		0.000313	0.00285	1	10/14/2019 16:41	WG1362682
1,1,2-Trichloroethane	U		0.00101	0.00285	1	10/14/2019 16:41	WG1362682
Trichloroethene	U		0.000456	0.00114	1	10/14/2019 16:41	WG1362682
Trichlorofluoromethane	U		0.000570	0.00285	1	10/14/2019 16:41	WG1362682
1,2,3-Trichloropropane	U		0.00581	0.0142	1	10/14/2019 16:41	WG1362682
1,2,4-Trimethylbenzene	U		0.00132	0.00570	1	10/14/2019 16:41	WG1362682
1,2,3-Trimethylbenzene	U		0.00131	0.00570	1	10/14/2019 16:41	WG1362682
1,3,5-Trimethylbenzene	U		0.00123	0.00570	1	10/14/2019 16:41	WG1362682
Vinyl acetate	U		0.00401	0.0142	1	10/14/2019 16:41	WG1362682
Vinyl chloride	U		0.000778	0.00285	1	10/14/2019 16:41	WG1362682
Xylenes, Total	U		0.00545	0.00741	1	10/14/2019 16:41	WG1362682
(S) Toluene-d8	*102*			*75.0-131*		*10/14/2019 16:41*	WG1362682
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/14/2019 16:41*	WG1362682
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*10/14/2019 16:41*	WG1362682

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.1		1	10/12/2019 13:04	WG1361905

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0163	0.0297	1	10/14/2019 17:01	WG1362682
Acrylonitrile	U		0.00226	0.0149	1	10/14/2019 17:01	WG1362682
Benzene	U		0.000476	0.00119	1	10/14/2019 17:01	WG1362682
Bromobenzene	U		0.00125	0.0149	1	10/14/2019 17:01	WG1362682
Bromodichloromethane	U		0.000937	0.00297	1	10/14/2019 17:01	WG1362682
Bromochloromethane	U		0.00134	0.00595	1	10/14/2019 17:01	WG1362682
Bromoform	U		0.00711	0.0297	1	10/14/2019 17:01	WG1362682
Bromomethane	U		0.00440	0.0149	1	10/14/2019 17:01	WG1362682
n-Butylbenzene	U		0.00457	0.0149	1	10/14/2019 17:01	WG1362682
sec-Butylbenzene	U		0.00301	0.0149	1	10/14/2019 17:01	WG1362682
tert-Butylbenzene	U		0.00184	0.00595	1	10/14/2019 17:01	WG1362682
Carbon disulfide	U		0.00483	0.0149	1	10/14/2019 17:01	WG1362682
Carbon tetrachloride	U		0.00128	0.00595	1	10/14/2019 17:01	WG1362682
Chlorobenzene	U		0.000681	0.00297	1	10/14/2019 17:01	WG1362682
Chlorodibromomethane	U		0.000535	0.00297	1	10/14/2019 17:01	WG1362682
Chloroethane	U		0.00128	0.00595	1	10/14/2019 17:01	WG1362682
Chloroform	U		0.000493	0.00297	1	10/14/2019 17:01	WG1362682
Chloromethane	U		0.00165	0.0149	1	10/14/2019 17:01	WG1362682
2-Chlorotoluene	U		0.00109	0.00297	1	10/14/2019 17:01	WG1362682
4-Chlorotoluene	U		0.00134	0.00595	1	10/14/2019 17:01	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00606	0.0297	1	10/14/2019 17:01	WG1362682
1,2-Dibromoethane	U		0.000624	0.00297	1	10/14/2019 17:01	WG1362682
Dibromomethane	U		0.00119	0.00595	1	10/14/2019 17:01	WG1362682
1,2-Dichlorobenzene	U		0.00172	0.00595	1	10/14/2019 17:01	WG1362682
1,3-Dichlorobenzene	U		0.00202	0.00595	1	10/14/2019 17:01	WG1362682
1,4-Dichlorobenzene	U		0.00234	0.00595	1	10/14/2019 17:01	WG1362682
Dichlorodifluoromethane	U		0.000973	0.00297	1	10/14/2019 17:01	WG1362682
1,1-Dichloroethane	U		0.000684	0.00297	1	10/14/2019 17:01	WG1362682
1,2-Dichloroethane	U		0.000565	0.00297	1	10/14/2019 17:01	WG1362682
1,1-Dichloroethene	U		0.000595	0.00297	1	10/14/2019 17:01	WG1362682
cis-1,2-Dichloroethene	U		0.000820	0.00297	1	10/14/2019 17:01	WG1362682
trans-1,2-Dichloroethene	U		0.00170	0.00595	1	10/14/2019 17:01	WG1362682
1,2-Dichloropropane	U		0.00151	0.00595	1	10/14/2019 17:01	WG1362682
1,1-Dichloropropene	U		0.000832	0.00297	1	10/14/2019 17:01	WG1362682
1,3-Dichloropropane	U		0.00208	0.00595	1	10/14/2019 17:01	WG1362682
cis-1,3-Dichloropropene	U		0.000806	0.00297	1	10/14/2019 17:01	WG1362682
trans-1,3-Dichloropropene	U		0.00182	0.00595	1	10/14/2019 17:01	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00166	0.00595	1	10/14/2019 17:01	WG1362682
2,2-Dichloropropane	U		0.000943	0.00297	1	10/14/2019 17:01	WG1362682
Di-isopropyl ether	U		0.000416	0.00119	1	10/14/2019 17:01	WG1362682
Ethylbenzene	U		0.000630	0.00297	1	10/14/2019 17:01	WG1362682
Hexachloro-1,3-butadiene	U		0.0151	0.0297	1	10/14/2019 17:01	WG1362682
2-Hexanone	U		0.0119	0.0297	1	10/14/2019 17:01	WG1362682
n-Hexane	U		0.00126	0.00595	1	10/14/2019 17:01	WG1362682
Iodomethane	U		0.00719	0.0149	1	10/14/2019 17:01	WG1362682
Isopropylbenzene	U		0.00103	0.00297	1	10/14/2019 17:01	WG1362682
p-Isopropyltoluene	U		0.00277	0.00595	1	10/14/2019 17:01	WG1362682
2-Butanone (MEK)	0.0241 U	B J J0	0.0149	0.0297	1	10/14/2019 17:01	WG1362682
Methylene Chloride	U		0.00790	0.0297	1	10/14/2019 17:01	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0297	1	10/14/2019 17:01	WG1362682

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000351	0.00119	1	10/14/2019 17:01	WG1362682
Naphthalene	U		0.00371	0.0149	1	10/14/2019 17:01	WG1362682
n-Propylbenzene	U		0.00140	0.00595	1	10/14/2019 17:01	WG1362682
Styrene	U		0.00325	0.0149	1	10/14/2019 17:01	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000595	0.00297	1	10/14/2019 17:01	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000464	0.00297	1	10/14/2019 17:01	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000803	0.00297	1	10/14/2019 17:01	WG1362682
Tetrachloroethene	0.00806		0.000832	0.00297	1	10/14/2019 17:01	WG1362682
Toluene	U		0.00149	0.00595	1	10/14/2019 17:01	WG1362682
1,2,3-Trichlorobenzene	U		0.000743	0.00297	1	10/14/2019 17:01	WG1362682
1,2,4-Trichlorobenzene	U		0.00573	0.0149	1	10/14/2019 17:01	WG1362682
1,1,1-Trichloroethane	U		0.000327	0.00297	1	10/14/2019 17:01	WG1362682
1,1,2-Trichloroethane	U		0.00105	0.00297	1	10/14/2019 17:01	WG1362682
Trichloroethene	U		0.000476	0.00119	1	10/14/2019 17:01	WG1362682
Trichlorofluoromethane	U		0.000595	0.00297	1	10/14/2019 17:01	WG1362682
1,2,3-Trichloropropane	U		0.00606	0.0149	1	10/14/2019 17:01	WG1362682
1,2,4-Trimethylbenzene	U		0.00138	0.00595	1	10/14/2019 17:01	WG1362682
1,2,3-Trimethylbenzene	U		0.00137	0.00595	1	10/14/2019 17:01	WG1362682
1,3,5-Trimethylbenzene	U		0.00128	0.00595	1	10/14/2019 17:01	WG1362682
Vinyl acetate	U		0.00419	0.0149	1	10/14/2019 17:01	WG1362682
Vinyl chloride	U		0.000812	0.00297	1	10/14/2019 17:01	WG1362682
Xylenes, Total	U		0.00568	0.00773	1	10/14/2019 17:01	WG1362682
(S) Toluene-d8	*105*			*75.0-131*		*10/14/2019 17:01*	WG1362682
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/14/2019 17:01*	WG1362682
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/14/2019 17:01*	WG1362682

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.9		1	10/12/2019 13:04	WG1361905

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0333		0.0161	0.0294	1	10/14/2019 17:22	WG1362682
Acrylonitrile	U		0.00224	0.0147	1	10/14/2019 17:22	WG1362682
Benzene	0.00166	B	0.000471	0.00118	1	10/14/2019 17:22	WG1362682
Bromobenzene	U		0.00124	0.0147	1	10/14/2019 17:22	WG1362682
Bromodichloromethane	U		0.000928	0.00294	1	10/14/2019 17:22	WG1362682
Bromochloromethane	U		0.00133	0.00589	1	10/14/2019 17:22	WG1362682
Bromoform	U		0.00704	0.0294	1	10/14/2019 17:22	WG1362682
Bromomethane	U		0.00436	0.0147	1	10/14/2019 17:22	WG1362682
n-Butylbenzene	U		0.00452	0.0147	1	10/14/2019 17:22	WG1362682
sec-Butylbenzene	U		0.00298	0.0147	1	10/14/2019 17:22	WG1362682
tert-Butylbenzene	U		0.00183	0.00589	1	10/14/2019 17:22	WG1362682
Carbon disulfide	U		0.00478	0.0147	1	10/14/2019 17:22	WG1362682
Carbon tetrachloride	U		0.00127	0.00589	1	10/14/2019 17:22	WG1362682
Chlorobenzene	U		0.000675	0.00294	1	10/14/2019 17:22	WG1362682
Chlorodibromomethane	U		0.000530	0.00294	1	10/14/2019 17:22	WG1362682
Chloroethane	U		0.00127	0.00589	1	10/14/2019 17:22	WG1362682
Chloroform	0.000674 U	B J	0.000489	0.00294	1	10/14/2019 17:22	WG1362682
Chloromethane	U		0.00164	0.0147	1	10/14/2019 17:22	WG1362682
2-Chlorotoluene	U		0.00108	0.00294	1	10/14/2019 17:22	WG1362682
4-Chlorotoluene	U		0.00133	0.00589	1	10/14/2019 17:22	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00601	0.0294	1	10/14/2019 17:22	WG1362682
1,2-Dibromoethane	U		0.000618	0.00294	1	10/14/2019 17:22	WG1362682
Dibromomethane	U		0.00118	0.00589	1	10/14/2019 17:22	WG1362682
1,2-Dichlorobenzene	U		0.00171	0.00589	1	10/14/2019 17:22	WG1362682
1,3-Dichlorobenzene	U		0.00200	0.00589	1	10/14/2019 17:22	WG1362682
1,4-Dichlorobenzene	U		0.00232	0.00589	1	10/14/2019 17:22	WG1362682
Dichlorodifluoromethane	U		0.000963	0.00294	1	10/14/2019 17:22	WG1362682
1,1-Dichloroethane	U		0.000677	0.00294	1	10/14/2019 17:22	WG1362682
1,2-Dichloroethane	U		0.000559	0.00294	1	10/14/2019 17:22	WG1362682
1,1-Dichloroethene	U		0.000589	0.00294	1	10/14/2019 17:22	WG1362682
cis-1,2-Dichloroethene	U		0.000813	0.00294	1	10/14/2019 17:22	WG1362682
trans-1,2-Dichloroethene	U		0.00168	0.00589	1	10/14/2019 17:22	WG1362682
1,2-Dichloropropane	U		0.00150	0.00589	1	10/14/2019 17:22	WG1362682
1,1-Dichloropropene	U		0.000824	0.00294	1	10/14/2019 17:22	WG1362682
1,3-Dichloropropane	U		0.00206	0.00589	1	10/14/2019 17:22	WG1362682
cis-1,3-Dichloropropene	U		0.000799	0.00294	1	10/14/2019 17:22	WG1362682
trans-1,3-Dichloropropene	U		0.00180	0.00589	1	10/14/2019 17:22	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00165	0.00589	1	10/14/2019 17:22	WG1362682
2,2-Dichloropropane	U		0.000934	0.00294	1	10/14/2019 17:22	WG1362682
Di-isopropyl ether	U		0.000412	0.00118	1	10/14/2019 17:22	WG1362682
Ethylbenzene	U		0.000624	0.00294	1	10/14/2019 17:22	WG1362682
Hexachloro-1,3-butadiene	U		0.0150	0.0294	1	10/14/2019 17:22	WG1362682
2-Hexanone	U		0.0118	0.0294	1	10/14/2019 17:22	WG1362682
n-Hexane	U		0.00125	0.00589	1	10/14/2019 17:22	WG1362682
Iodomethane	U		0.00713	0.0147	1	10/14/2019 17:22	WG1362682
Isopropylbenzene	U		0.00102	0.00294	1	10/14/2019 17:22	WG1362682
p-Isopropyltoluene	0.00579 J	J	0.00274	0.00589	1	10/14/2019 17:22	WG1362682
2-Butanone (MEK)	0.0364 U	B J0	0.0147	0.0294	1	10/14/2019 17:22	WG1362682
Methylene Chloride	U		0.00782	0.0294	1	10/14/2019 17:22	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0294	1	10/14/2019 17:22	WG1362682

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000347	0.00118	1	10/14/2019 17:22	WG1362682
Naphthalene	U		0.00367	0.0147	1	10/14/2019 17:22	WG1362682
n-Propylbenzene	U		0.00139	0.00589	1	10/14/2019 17:22	WG1362682
Styrene	U		0.00322	0.0147	1	10/14/2019 17:22	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000589	0.00294	1	10/14/2019 17:22	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000459	0.00294	1	10/14/2019 17:22	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000795	0.00294	1	10/14/2019 17:22	WG1362682
Tetrachloroethene	U		0.000824	0.00294	1	10/14/2019 17:22	WG1362682
Toluene	0.00496 J	J	0.00147	0.00589	1	10/14/2019 17:22	WG1362682
1,2,3-Trichlorobenzene	U		0.000736	0.00294	1	10/14/2019 17:22	WG1362682
1,2,4-Trichlorobenzene	U		0.00568	0.0147	1	10/14/2019 17:22	WG1362682
1,1,1-Trichloroethane	U		0.000324	0.00294	1	10/14/2019 17:22	WG1362682
1,1,2-Trichloroethane	U		0.00104	0.00294	1	10/14/2019 17:22	WG1362682
Trichloroethene	U		0.000471	0.00118	1	10/14/2019 17:22	WG1362682
Trichlorofluoromethane	U		0.000589	0.00294	1	10/14/2019 17:22	WG1362682
1,2,3-Trichloropropane	U		0.00601	0.0147	1	10/14/2019 17:22	WG1362682
1,2,4-Trimethylbenzene	U		0.00137	0.00589	1	10/14/2019 17:22	WG1362682
1,2,3-Trimethylbenzene	U		0.00135	0.00589	1	10/14/2019 17:22	WG1362682
1,3,5-Trimethylbenzene	U		0.00127	0.00589	1	10/14/2019 17:22	WG1362682
Vinyl acetate	U		0.00415	0.0147	1	10/14/2019 17:22	WG1362682
Vinyl chloride	U		0.000804	0.00294	1	10/14/2019 17:22	WG1362682
Xylenes, Total	U		0.00563	0.00766	1	10/14/2019 17:22	WG1362682
(S) Toluene-d8	*102*			*75.0-131*		*10/14/2019 17:22*	WG1362682
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/14/2019 17:22*	WG1362682
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/14/2019 17:22*	WG1362682

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.4		1	10/12/2019 13:04	WG1361905

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0273	1	10/14/2019 17:43	WG1362682
Acrylonitrile	U		0.00208	0.0137	1	10/14/2019 17:43	WG1362682
Benzene	U		0.000438	0.00109	1	10/14/2019 17:43	WG1362682
Bromobenzene	U		0.00115	0.0137	1	10/14/2019 17:43	WG1362682
Bromodichloromethane	U		0.000862	0.00273	1	10/14/2019 17:43	WG1362682
Bromochloromethane	U		0.00124	0.00547	1	10/14/2019 17:43	WG1362682
Bromoform	U		0.00654	0.0273	1	10/14/2019 17:43	WG1362682
Bromomethane	U		0.00405	0.0137	1	10/14/2019 17:43	WG1362682
n-Butylbenzene	U		0.00420	0.0137	1	10/14/2019 17:43	WG1362682
sec-Butylbenzene	U		0.00277	0.0137	1	10/14/2019 17:43	WG1362682
tert-Butylbenzene	U		0.00170	0.00547	1	10/14/2019 17:43	WG1362682
Carbon disulfide	U		0.00444	0.0137	1	10/14/2019 17:43	WG1362682
Carbon tetrachloride	U		0.00118	0.00547	1	10/14/2019 17:43	WG1362682
Chlorobenzene	U		0.000627	0.00273	1	10/14/2019 17:43	WG1362682
Chlorodibromomethane	U		0.000492	0.00273	1	10/14/2019 17:43	WG1362682
Chloroethane	U		0.00118	0.00547	1	10/14/2019 17:43	WG1362682
Chloroform	U		0.000454	0.00273	1	10/14/2019 17:43	WG1362682
Chloromethane	U		0.00152	0.0137	1	10/14/2019 17:43	WG1362682
2-Chlorotoluene	U		0.00101	0.00273	1	10/14/2019 17:43	WG1362682
4-Chlorotoluene	U		0.00124	0.00547	1	10/14/2019 17:43	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00558	0.0273	1	10/14/2019 17:43	WG1362682
1,2-Dibromoethane	U		0.000574	0.00273	1	10/14/2019 17:43	WG1362682
Dibromomethane	U		0.00109	0.00547	1	10/14/2019 17:43	WG1362682
1,2-Dichlorobenzene	U		0.00159	0.00547	1	10/14/2019 17:43	WG1362682
1,3-Dichlorobenzene	U		0.00186	0.00547	1	10/14/2019 17:43	WG1362682
1,4-Dichlorobenzene	U		0.00215	0.00547	1	10/14/2019 17:43	WG1362682
Dichlorodifluoromethane	U		0.000895	0.00273	1	10/14/2019 17:43	WG1362682
1,1-Dichloroethane	U		0.000629	0.00273	1	10/14/2019 17:43	WG1362682
1,2-Dichloroethane	U		0.000520	0.00273	1	10/14/2019 17:43	WG1362682
1,1-Dichloroethene	U		0.000547	0.00273	1	10/14/2019 17:43	WG1362682
cis-1,2-Dichloroethene	U		0.000755	0.00273	1	10/14/2019 17:43	WG1362682
trans-1,2-Dichloroethene	U		0.00156	0.00547	1	10/14/2019 17:43	WG1362682
1,2-Dichloropropane	U		0.00139	0.00547	1	10/14/2019 17:43	WG1362682
1,1-Dichloropropene	U		0.000766	0.00273	1	10/14/2019 17:43	WG1362682
1,3-Dichloropropane	U		0.00191	0.00547	1	10/14/2019 17:43	WG1362682
cis-1,3-Dichloropropene	U		0.000742	0.00273	1	10/14/2019 17:43	WG1362682
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	10/14/2019 17:43	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	10/14/2019 17:43	WG1362682
2,2-Dichloropropane	U		0.000867	0.00273	1	10/14/2019 17:43	WG1362682
Di-isopropyl ether	U		0.000383	0.00109	1	10/14/2019 17:43	WG1362682
Ethylbenzene	U		0.000580	0.00273	1	10/14/2019 17:43	WG1362682
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	10/14/2019 17:43	WG1362682
2-Hexanone	U		0.0109	0.0273	1	10/14/2019 17:43	WG1362682
n-Hexane	U		0.00116	0.00547	1	10/14/2019 17:43	WG1362682
Iodomethane	U		0.00662	0.0137	1	10/14/2019 17:43	WG1362682
Isopropylbenzene	U		0.000944	0.00273	1	10/14/2019 17:43	WG1362682
p-Isopropyltoluene	U		0.00255	0.00547	1	10/14/2019 17:43	WG1362682
2-Butanone (MEK)	0.0254 U	B J J0	0.0137	0.0273	1	10/14/2019 17:43	WG1362682
Methylene Chloride	U		0.00726	0.0273	1	10/14/2019 17:43	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/14/2019 17:43	WG1362682

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00109	1	10/14/2019 17:43	WG1362682
Naphthalene	U		0.00341	0.0137	1	10/14/2019 17:43	WG1362682
n-Propylbenzene	U		0.00129	0.00547	1	10/14/2019 17:43	WG1362682
Styrene	U		0.00299	0.0137	1	10/14/2019 17:43	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000547	0.00273	1	10/14/2019 17:43	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000427	0.00273	1	10/14/2019 17:43	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000738	0.00273	1	10/14/2019 17:43	WG1362682
Tetrachloroethene	U		0.000766	0.00273	1	10/14/2019 17:43	WG1362682
Toluene	U		0.00137	0.00547	1	10/14/2019 17:43	WG1362682
1,2,3-Trichlorobenzene	U		0.000684	0.00273	1	10/14/2019 17:43	WG1362682
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	10/14/2019 17:43	WG1362682
1,1,1-Trichloroethane	U		0.000301	0.00273	1	10/14/2019 17:43	WG1362682
1,1,2-Trichloroethane	U		0.000966	0.00273	1	10/14/2019 17:43	WG1362682
Trichloroethene	U		0.000438	0.00109	1	10/14/2019 17:43	WG1362682
Trichlorofluoromethane	U		0.000547	0.00273	1	10/14/2019 17:43	WG1362682
1,2,3-Trichloropropane	U		0.00558	0.0137	1	10/14/2019 17:43	WG1362682
1,2,4-Trimethylbenzene	U		0.00127	0.00547	1	10/14/2019 17:43	WG1362682
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	10/14/2019 17:43	WG1362682
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	10/14/2019 17:43	WG1362682
Vinyl acetate	U		0.00385	0.0137	1	10/14/2019 17:43	WG1362682
Vinyl chloride	U		0.000747	0.00273	1	10/14/2019 17:43	WG1362682
Xylenes, Total	U		0.00523	0.00711	1	10/14/2019 17:43	WG1362682
(S) Toluene-d8	*104*			*75.0-131*		*10/14/2019 17:43*	WG1362682
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/14/2019 17:43*	WG1362682
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/14/2019 17:43*	WG1362682

JC 11/11/19

MW-304-30

Collected date/time: 10/01/19 10:25

SAMPLE RESULTS - 06

L1147020

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.0		1	10/12/2019 13:04	WG1361905

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0161	0.0294	1	10/14/2019 18:04	WG1362682
Acrylonitrile	U		0.00223	0.0147	1	10/14/2019 18:04	WG1362682
Benzene	U		0.000470	0.00118	1	10/14/2019 18:04	WG1362682
Bromobenzene	U		0.00124	0.0147	1	10/14/2019 18:04	WG1362682
Bromodichloromethane	U		0.000927	0.00294	1	10/14/2019 18:04	WG1362682
Bromochloromethane	U		0.00133	0.00588	1	10/14/2019 18:04	WG1362682
Bromoform	U		0.00703	0.0294	1	10/14/2019 18:04	WG1362682
Bromomethane	U		0.00435	0.0147	1	10/14/2019 18:04	WG1362682
n-Butylbenzene	U		0.00452	0.0147	1	10/14/2019 18:04	WG1362682
sec-Butylbenzene	U		0.00298	0.0147	1	10/14/2019 18:04	WG1362682
tert-Butylbenzene	U		0.00182	0.00588	1	10/14/2019 18:04	WG1362682
Carbon disulfide	U		0.00478	0.0147	1	10/14/2019 18:04	WG1362682
Carbon tetrachloride	U		0.00127	0.00588	1	10/14/2019 18:04	WG1362682
Chlorobenzene	U		0.000674	0.00294	1	10/14/2019 18:04	WG1362682
Chlorodibromomethane	U		0.000529	0.00294	1	10/14/2019 18:04	WG1362682
Chloroethane	U		0.00127	0.00588	1	10/14/2019 18:04	WG1362682
Chloroform	U		0.000488	0.00294	1	10/14/2019 18:04	WG1362682
Chloromethane	U		0.00163	0.0147	1	10/14/2019 18:04	WG1362682
2-Chlorotoluene	U		0.00108	0.00294	1	10/14/2019 18:04	WG1362682
4-Chlorotoluene	U		0.00133	0.00588	1	10/14/2019 18:04	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00600	0.0294	1	10/14/2019 18:04	WG1362682
1,2-Dibromoethane	U		0.000618	0.00294	1	10/14/2019 18:04	WG1362682
Dibromomethane	U		0.00118	0.00588	1	10/14/2019 18:04	WG1362682
1,2-Dichlorobenzene	U		0.00171	0.00588	1	10/14/2019 18:04	WG1362682
1,3-Dichlorobenzene	U		0.00200	0.00588	1	10/14/2019 18:04	WG1362682
1,4-Dichlorobenzene	U		0.00232	0.00588	1	10/14/2019 18:04	WG1362682
Dichlorodifluoromethane	U		0.000962	0.00294	1	10/14/2019 18:04	WG1362682
1,1-Dichloroethane	U		0.000676	0.00294	1	10/14/2019 18:04	WG1362682
1,2-Dichloroethane	U		0.000559	0.00294	1	10/14/2019 18:04	WG1362682
1,1-Dichloroethene	U		0.000588	0.00294	1	10/14/2019 18:04	WG1362682
cis-1,2-Dichloroethene	U		0.000812	0.00294	1	10/14/2019 18:04	WG1362682
trans-1,2-Dichloroethene	U		0.00168	0.00588	1	10/14/2019 18:04	WG1362682
1,2-Dichloropropane	U		0.00149	0.00588	1	10/14/2019 18:04	WG1362682
1,1-Dichloropropene	U		0.000823	0.00294	1	10/14/2019 18:04	WG1362682
1,3-Dichloropropane	U		0.00206	0.00588	1	10/14/2019 18:04	WG1362682
cis-1,3-Dichloropropene	U		0.000797	0.00294	1	10/14/2019 18:04	WG1362682
trans-1,3-Dichloropropene	U		0.00180	0.00588	1	10/14/2019 18:04	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00165	0.00588	1	10/14/2019 18:04	WG1362682
2,2-Dichloropropane	U		0.000933	0.00294	1	10/14/2019 18:04	WG1362682
Di-isopropyl ether	U		0.000412	0.00118	1	10/14/2019 18:04	WG1362682
Ethylbenzene	U		0.000623	0.00294	1	10/14/2019 18:04	WG1362682
Hexachloro-1,3-butadiene	U		0.0149	0.0294	1	10/14/2019 18:04	WG1362682
2-Hexanone	U		0.0118	0.0294	1	10/14/2019 18:04	WG1362682
n-Hexane	U		0.00125	0.00588	1	10/14/2019 18:04	WG1362682
Iodomethane	U		0.00712	0.0147	1	10/14/2019 18:04	WG1362682
Isopropylbenzene	U		0.00102	0.00294	1	10/14/2019 18:04	WG1362682
p-Isopropyltoluene	U		0.00274	0.00588	1	10/14/2019 18:04	WG1362682
2-Butanone (MEK)	0.0222 U	B J J0	0.0147	0.0294	1	10/14/2019 18:04	WG1362682
Methylene Chloride	U		0.00781	0.0294	1	10/14/2019 18:04	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0294	1	10/14/2019 18:04	WG1362682

JC 11/11/19

MW-304-30

Collected date/time: 10/01/19 10:25

SAMPLE RESULTS - 06

L1147020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000347	0.00118	1	10/14/2019 18:04	WG1362682
Naphthalene	U		0.00367	0.0147	1	10/14/2019 18:04	WG1362682
n-Propylbenzene	U		0.00139	0.00588	1	10/14/2019 18:04	WG1362682
Styrene	U		0.00321	0.0147	1	10/14/2019 18:04	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000588	0.00294	1	10/14/2019 18:04	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000459	0.00294	1	10/14/2019 18:04	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000794	0.00294	1	10/14/2019 18:04	WG1362682
Tetrachloroethene	U		0.000823	0.00294	1	10/14/2019 18:04	WG1362682
Toluene	U		0.00147	0.00588	1	10/14/2019 18:04	WG1362682
1,2,3-Trichlorobenzene	U		0.000735	0.00294	1	10/14/2019 18:04	WG1362682
1,2,4-Trichlorobenzene	U		0.00567	0.0147	1	10/14/2019 18:04	WG1362682
1,1,1-Trichloroethane	U		0.000323	0.00294	1	10/14/2019 18:04	WG1362682
1,1,2-Trichloroethane	U		0.00104	0.00294	1	10/14/2019 18:04	WG1362682
Trichloroethene	U		0.000470	0.00118	1	10/14/2019 18:04	WG1362682
Trichlorofluoromethane	U		0.000588	0.00294	1	10/14/2019 18:04	WG1362682
1,2,3-Trichloropropane	U		0.00600	0.0147	1	10/14/2019 18:04	WG1362682
1,2,4-Trimethylbenzene	U		0.00136	0.00588	1	10/14/2019 18:04	WG1362682
1,2,3-Trimethylbenzene	U		0.00135	0.00588	1	10/14/2019 18:04	WG1362682
1,3,5-Trimethylbenzene	U		0.00127	0.00588	1	10/14/2019 18:04	WG1362682
Vinyl acetate	U		0.00414	0.0147	1	10/14/2019 18:04	WG1362682
Vinyl chloride	U		0.000803	0.00294	1	10/14/2019 18:04	WG1362682
Xylenes, Total	U		0.00562	0.00765	1	10/14/2019 18:04	WG1362682
(S) Toluene-d8	*103*			*75.0-131*		*10/14/2019 18:04*	WG1362682
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/14/2019 18:04*	WG1362682
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/14/2019 18:04*	WG1362682

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.2		1	10/12/2019 13:04	WG1361905

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0149	0.0271	1	10/14/2019 18:24	WG1362682	
Acrylonitrile	U		0.00206	0.0136	1	10/14/2019 18:24	WG1362682	
Benzene	U		0.000434	0.00109	1	10/14/2019 18:24	WG1362682	
Bromobenzene	U		0.00114	0.0136	1	10/14/2019 18:24	WG1362682	
Bromodichloromethane	U		0.000855	0.00271	1	10/14/2019 18:24	WG1362682	
Bromochloromethane	U		0.00123	0.00543	1	10/14/2019 18:24	WG1362682	
Bromoform	U		0.00649	0.0271	1	10/14/2019 18:24	WG1362682	
Bromomethane	U		0.00402	0.0136	1	10/14/2019 18:24	WG1362682	
n-Butylbenzene	U		0.00417	0.0136	1	10/14/2019 18:24	WG1362682	
sec-Butylbenzene	U		0.00275	0.0136	1	10/14/2019 18:24	WG1362682	
tert-Butylbenzene	U		0.00168	0.00543	1	10/14/2019 18:24	WG1362682	
Carbon disulfide	U		0.00441	0.0136	1	10/14/2019 18:24	WG1362682	
Carbon tetrachloride	U		0.00117	0.00543	1	10/14/2019 18:24	WG1362682	
Chlorobenzene	U		0.000622	0.00271	1	10/14/2019 18:24	WG1362682	
Chlorodibromomethane	U		0.000488	0.00271	1	10/14/2019 18:24	WG1362682	
Chloroethane	U		0.00117	0.00543	1	10/14/2019 18:24	WG1362682	
Chloroform	U		0.000450	0.00271	1	10/14/2019 18:24	WG1362682	
Chloromethane	U		0.00151	0.0136	1	10/14/2019 18:24	WG1362682	
2-Chlorotoluene	U		0.000998	0.00271	1	10/14/2019 18:24	WG1362682	
4-Chlorotoluene	U		0.00123	0.00543	1	10/14/2019 18:24	WG1362682	
1,2-Dibromo-3-Chloropropane	U		0.00553	0.0271	1	10/14/2019 18:24	WG1362682	
1,2-Dibromoethane	U		0.000570	0.00271	1	10/14/2019 18:24	WG1362682	
Dibromomethane	U		0.00109	0.00543	1	10/14/2019 18:24	WG1362682	
1,2-Dichlorobenzene	U		0.00157	0.00543	1	10/14/2019 18:24	WG1362682	
1,3-Dichlorobenzene	U		0.00184	0.00543	1	10/14/2019 18:24	WG1362682	
1,4-Dichlorobenzene	U		0.00214	0.00543	1	10/14/2019 18:24	WG1362682	
Dichlorodifluoromethane	U		0.000888	0.00271	1	10/14/2019 18:24	WG1362682	
1,1-Dichloroethane	U		0.000624	0.00271	1	10/14/2019 18:24	WG1362682	
1,2-Dichloroethane	U		0.000515	0.00271	1	10/14/2019 18:24	WG1362682	
1,1-Dichloroethene	U		0.000543	0.00271	1	10/14/2019 18:24	WG1362682	
cis-1,2-Dichloroethene	U		0.000749	0.00271	1	10/14/2019 18:24	WG1362682	
trans-1,2-Dichloroethene	U		0.00155	0.00543	1	10/14/2019 18:24	WG1362682	
1,2-Dichloropropane	U		0.00138	0.00543	1	10/14/2019 18:24	WG1362682	
1,1-Dichloropropene	U		0.000760	0.00271	1	10/14/2019 18:24	WG1362682	
1,3-Dichloropropane	U		0.00190	0.00543	1	10/14/2019 18:24	WG1362682	
cis-1,3-Dichloropropene	U		0.000736	0.00271	1	10/14/2019 18:24	WG1362682	
trans-1,3-Dichloropropene	U		0.00166	0.00543	1	10/14/2019 18:24	WG1362682	
trans-1,4-Dichloro-2-butene	U		0.00152	0.00543	1	10/14/2019 18:24	WG1362682	
2,2-Dichloropropane	U		0.000861	0.00271	1	10/14/2019 18:24	WG1362682	
Di-isopropyl ether	U		0.000380	0.00109	1	10/14/2019 18:24	WG1362682	
Ethylbenzene	U		0.000575	0.00271	1	10/14/2019 18:24	WG1362682	
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	10/14/2019 18:24	WG1362682	JC 11/11/19
2-Hexanone	U		0.0109	0.0271	1	10/14/2019 18:24	WG1362682	
n-Hexane	U		0.00115	0.00543	1	10/14/2019 18:24	WG1362682	
Iodomethane	U		0.00657	0.0136	1	10/14/2019 18:24	WG1362682	
Isopropylbenzene	U		0.000936	0.00271	1	10/14/2019 18:24	WG1362682	
p-Isopropyltoluene	U		0.00253	0.00543	1	10/14/2019 18:24	WG1362682	
2-Butanone (MEK)	0.0220 U	B J J0	0.0136	0.0271	1	10/14/2019 18:24	WG1362682	
Methylene Chloride	U		0.00721	0.0271	1	10/14/2019 18:24	WG1362682	
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0271	1	10/14/2019 18:24	WG1362682	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00109	1	10/14/2019 18:24	WG1362682
Naphthalene	U		0.00339	0.0136	1	10/14/2019 18:24	WG1362682
n-Propylbenzene	U		0.00128	0.00543	1	10/14/2019 18:24	WG1362682
Styrene	U		0.00296	0.0136	1	10/14/2019 18:24	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000543	0.00271	1	10/14/2019 18:24	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	10/14/2019 18:24	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000732	0.00271	1	10/14/2019 18:24	WG1362682
Tetrachloroethene	U		0.000760	0.00271	1	10/14/2019 18:24	WG1362682
Toluene	0.00211 J	J	0.00136	0.00543	1	10/14/2019 18:24	WG1362682
1,2,3-Trichlorobenzene	U		0.000678	0.00271	1	10/14/2019 18:24	WG1362682
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	10/14/2019 18:24	WG1362682
1,1,1-Trichloroethane	U		0.000298	0.00271	1	10/14/2019 18:24	WG1362682
1,1,2-Trichloroethane	U		0.000958	0.00271	1	10/14/2019 18:24	WG1362682
Trichloroethene	U		0.000434	0.00109	1	10/14/2019 18:24	WG1362682
Trichlorofluoromethane	U		0.000543	0.00271	1	10/14/2019 18:24	WG1362682
1,2,3-Trichloropropane	U		0.00553	0.0136	1	10/14/2019 18:24	WG1362682
1,2,4-Trimethylbenzene	U		0.00126	0.00543	1	10/14/2019 18:24	WG1362682
1,2,3-Trimethylbenzene	U		0.00125	0.00543	1	10/14/2019 18:24	WG1362682
1,3,5-Trimethylbenzene	U		0.00117	0.00543	1	10/14/2019 18:24	WG1362682
Vinyl acetate	U		0.00382	0.0136	1	10/14/2019 18:24	WG1362682
Vinyl chloride	U		0.000741	0.00271	1	10/14/2019 18:24	WG1362682
Xylenes, Total	U		0.00519	0.00705	1	10/14/2019 18:24	WG1362682
(S) Toluene-d8	*103*			*75.0-131*		*10/14/2019 18:24*	WG1362682
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*10/14/2019 18:24*	WG1362682
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/14/2019 18:24*	WG1362682

JC 11/11/19

MW-304-45
Collected date/time: 10/01/19 10:35

SAMPLE RESULTS - 08

L1147020

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.4		1	10/12/2019 12:50	WG1361906

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0139	0.0254	1	10/14/2019 18:44	WG1362682
Acrylonitrile	U		0.00193	0.0127	1	10/14/2019 18:44	WG1362682
Benzene	U		0.000406	0.00102	1	10/14/2019 18:44	WG1362682
Bromobenzene	U		0.00107	0.0127	1	10/14/2019 18:44	WG1362682
Bromodichloromethane	U		0.000800	0.00254	1	10/14/2019 18:44	WG1362682
Bromochloromethane	U		0.00115	0.00508	1	10/14/2019 18:44	WG1362682
Bromoform	U		0.00607	0.0254	1	10/14/2019 18:44	WG1362682
Bromomethane	U		0.00376	0.0127	1	10/14/2019 18:44	WG1362682
n-Butylbenzene	U		0.00390	0.0127	1	10/14/2019 18:44	WG1362682
sec-Butylbenzene	U		0.00257	0.0127	1	10/14/2019 18:44	WG1362682
tert-Butylbenzene	U		0.00157	0.00508	1	10/14/2019 18:44	WG1362682
Carbon disulfide	U		0.00412	0.0127	1	10/14/2019 18:44	WG1362682
Carbon tetrachloride	U		0.00110	0.00508	1	10/14/2019 18:44	WG1362682
Chlorobenzene	U		0.000582	0.00254	1	10/14/2019 18:44	WG1362682
Chlorodibromomethane	U		0.000457	0.00254	1	10/14/2019 18:44	WG1362682
Chloroethane	U		0.00110	0.00508	1	10/14/2019 18:44	WG1362682
Chloroform	U		0.000422	0.00254	1	10/14/2019 18:44	WG1362682
Chloromethane	U		0.00141	0.0127	1	10/14/2019 18:44	WG1362682
2-Chlorotoluene	U		0.000935	0.00254	1	10/14/2019 18:44	WG1362682
4-Chlorotoluene	U		0.00115	0.00508	1	10/14/2019 18:44	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00518	0.0254	1	10/14/2019 18:44	WG1362682
1,2-Dibromoethane	U		0.000533	0.00254	1	10/14/2019 18:44	WG1362682
Dibromomethane	U		0.00102	0.00508	1	10/14/2019 18:44	WG1362682
1,2-Dichlorobenzene	U		0.00147	0.00508	1	10/14/2019 18:44	WG1362682
1,3-Dichlorobenzene	U		0.00173	0.00508	1	10/14/2019 18:44	WG1362682
1,4-Dichlorobenzene	U		0.00200	0.00508	1	10/14/2019 18:44	WG1362682
Dichlorodifluoromethane	U		0.000831	0.00254	1	10/14/2019 18:44	WG1362682
1,1-Dichloroethane	U		0.000584	0.00254	1	10/14/2019 18:44	WG1362682
1,2-Dichloroethane	U		0.000483	0.00254	1	10/14/2019 18:44	WG1362682
1,1-Dichloroethene	U		0.000508	0.00254	1	10/14/2019 18:44	WG1362682
cis-1,2-Dichloroethene	U		0.000701	0.00254	1	10/14/2019 18:44	WG1362682
trans-1,2-Dichloroethene	U		0.00145	0.00508	1	10/14/2019 18:44	WG1362682
1,2-Dichloropropane	U		0.00129	0.00508	1	10/14/2019 18:44	WG1362682
1,1-Dichloropropene	U		0.000711	0.00254	1	10/14/2019 18:44	WG1362682
1,3-Dichloropropane	U		0.00178	0.00508	1	10/14/2019 18:44	WG1362682
cis-1,3-Dichloropropene	U		0.000689	0.00254	1	10/14/2019 18:44	WG1362682
trans-1,3-Dichloropropene	U		0.00155	0.00508	1	10/14/2019 18:44	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00142	0.00508	1	10/14/2019 18:44	WG1362682
2,2-Dichloropropane	U		0.000806	0.00254	1	10/14/2019 18:44	WG1362682
Di-isopropyl ether	U		0.000356	0.00102	1	10/14/2019 18:44	WG1362682
Ethylbenzene	U		0.000538	0.00254	1	10/14/2019 18:44	WG1362682
Hexachloro-1,3-butadiene	U		0.0129	0.0254	1	10/14/2019 18:44	WG1362682
2-Hexanone	U		0.0102	0.0254	1	10/14/2019 18:44	WG1362682
n-Hexane	U		0.00108	0.00508	1	10/14/2019 18:44	WG1362682
Iodomethane	U		0.00615	0.0127	1	10/14/2019 18:44	WG1362682
Isopropylbenzene	U		0.000877	0.00254	1	10/14/2019 18:44	WG1362682
p-Isopropyltoluene	U		0.00237	0.00508	1	10/14/2019 18:44	WG1362682
2-Butanone (MEK)	0.0207 U	B J J0	0.0127	0.0254	1	10/14/2019 18:44	WG1362682
Methylene Chloride	U		0.00675	0.0254	1	10/14/2019 18:44	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0102	0.0254	1	10/14/2019 18:44	WG1362682

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000300	0.00102	1	10/14/2019 18:44	WG1362682
Naphthalene	U		0.00317	0.0127	1	10/14/2019 18:44	WG1362682
n-Propylbenzene	U		0.00120	0.00508	1	10/14/2019 18:44	WG1362682
Styrene	U		0.00277	0.0127	1	10/14/2019 18:44	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000508	0.00254	1	10/14/2019 18:44	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000396	0.00254	1	10/14/2019 18:44	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000686	0.00254	1	10/14/2019 18:44	WG1362682
Tetrachloroethene	U		0.000711	0.00254	1	10/14/2019 18:44	WG1362682
Toluene	0.00130 J	J	0.00127	0.00508	1	10/14/2019 18:44	WG1362682
1,2,3-Trichlorobenzene	U		0.000635	0.00254	1	10/14/2019 18:44	WG1362682
1,2,4-Trichlorobenzene	U		0.00490	0.0127	1	10/14/2019 18:44	WG1362682
1,1,1-Trichloroethane	U		0.000279	0.00254	1	10/14/2019 18:44	WG1362682
1,1,2-Trichloroethane	U		0.000897	0.00254	1	10/14/2019 18:44	WG1362682
Trichloroethene	U		0.000406	0.00102	1	10/14/2019 18:44	WG1362682
Trichlorofluoromethane	U		0.000508	0.00254	1	10/14/2019 18:44	WG1362682
1,2,3-Trichloropropane	U		0.00518	0.0127	1	10/14/2019 18:44	WG1362682
1,2,4-Trimethylbenzene	U		0.00118	0.00508	1	10/14/2019 18:44	WG1362682
1,2,3-Trimethylbenzene	U		0.00117	0.00508	1	10/14/2019 18:44	WG1362682
1,3,5-Trimethylbenzene	U		0.00110	0.00508	1	10/14/2019 18:44	WG1362682
Vinyl acetate	U		0.00358	0.0127	1	10/14/2019 18:44	WG1362682
Vinyl chloride	U		0.000694	0.00254	1	10/14/2019 18:44	WG1362682
Xylenes, Total	U		0.00486	0.00660	1	10/14/2019 18:44	WG1362682
(S) Toluene-d8	*103*			*75.0-131*		*10/14/2019 18:44*	WG1362682
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/14/2019 18:44*	WG1362682
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/14/2019 18:44*	WG1362682

JC 11/11/19

MW-304-50
Collected date/time: 10/01/19 10:40

SAMPLE RESULTS - 09

L1147020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.9		1	10/12/2019 12:50	WG1361906

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0147	0.0269	1	10/14/2019 19:05	WG1362682
Acrylonitrile	U		0.00205	0.0135	1	10/14/2019 19:05	WG1362682
Benzene	U		0.000431	0.00108	1	10/14/2019 19:05	WG1362682
Bromobenzene	U		0.00113	0.0135	1	10/14/2019 19:05	WG1362682
Bromodichloromethane	U		0.000848	0.00269	1	10/14/2019 19:05	WG1362682
Bromochloromethane	U		0.00122	0.00538	1	10/14/2019 19:05	WG1362682
Bromoform	U		0.00644	0.0269	1	10/14/2019 19:05	WG1362682
Bromomethane	U		0.00398	0.0135	1	10/14/2019 19:05	WG1362682
n-Butylbenzene	U		0.00413	0.0135	1	10/14/2019 19:05	WG1362682
sec-Butylbenzene	U		0.00272	0.0135	1	10/14/2019 19:05	WG1362682
tert-Butylbenzene	U		0.00167	0.00538	1	10/14/2019 19:05	WG1362682
Carbon disulfide	U		0.00437	0.0135	1	10/14/2019 19:05	WG1362682
Carbon tetrachloride	U		0.00116	0.00538	1	10/14/2019 19:05	WG1362682
Chlorobenzene	U		0.000617	0.00269	1	10/14/2019 19:05	WG1362682
Chlorodibromomethane	U		0.000484	0.00269	1	10/14/2019 19:05	WG1362682
Chloroethane	U		0.00116	0.00538	1	10/14/2019 19:05	WG1362682
Chloroform	0.000503 U	B J	0.000447	0.00269	1	10/14/2019 19:05	WG1362682
Chloromethane	U		0.00150	0.0135	1	10/14/2019 19:05	WG1362682
2-Chlorotoluene	U		0.000991	0.00269	1	10/14/2019 19:05	WG1362682
4-Chlorotoluene	U		0.00122	0.00538	1	10/14/2019 19:05	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0269	1	10/14/2019 19:05	WG1362682
1,2-Dibromoethane	U		0.000565	0.00269	1	10/14/2019 19:05	WG1362682
Dibromomethane	U		0.00108	0.00538	1	10/14/2019 19:05	WG1362682
1,2-Dichlorobenzene	U		0.00156	0.00538	1	10/14/2019 19:05	WG1362682
1,3-Dichlorobenzene	U		0.00183	0.00538	1	10/14/2019 19:05	WG1362682
1,4-Dichlorobenzene	U		0.00212	0.00538	1	10/14/2019 19:05	WG1362682
Dichlorodifluoromethane	U		0.000881	0.00269	1	10/14/2019 19:05	WG1362682
1,1-Dichloroethane	U		0.000619	0.00269	1	10/14/2019 19:05	WG1362682
1,2-Dichloroethane	U		0.000511	0.00269	1	10/14/2019 19:05	WG1362682
1,1-Dichloroethene	U		0.000538	0.00269	1	10/14/2019 19:05	WG1362682
cis-1,2-Dichloroethene	U		0.000743	0.00269	1	10/14/2019 19:05	WG1362682
trans-1,2-Dichloroethene	U		0.00154	0.00538	1	10/14/2019 19:05	WG1362682
1,2-Dichloropropane	U		0.00137	0.00538	1	10/14/2019 19:05	WG1362682
1,1-Dichloropropene	U		0.000754	0.00269	1	10/14/2019 19:05	WG1362682
1,3-Dichloropropane	U		0.00188	0.00538	1	10/14/2019 19:05	WG1362682
cis-1,3-Dichloropropene	U		0.000730	0.00269	1	10/14/2019 19:05	WG1362682
trans-1,3-Dichloropropene	U		0.00165	0.00538	1	10/14/2019 19:05	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00151	0.00538	1	10/14/2019 19:05	WG1362682
2,2-Dichloropropane	U		0.000854	0.00269	1	10/14/2019 19:05	WG1362682
Di-isopropyl ether	U		0.000377	0.00108	1	10/14/2019 19:05	WG1362682
Ethylbenzene	U		0.000571	0.00269	1	10/14/2019 19:05	WG1362682
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	10/14/2019 19:05	WG1362682
2-Hexanone	U		0.0108	0.0269	1	10/14/2019 19:05	WG1362682
n-Hexane	U		0.00114	0.00538	1	10/14/2019 19:05	WG1362682
Iodomethane	U		0.00651	0.0135	1	10/14/2019 19:05	WG1362682
Isopropylbenzene	U		0.000929	0.00269	1	10/14/2019 19:05	WG1362682
p-Isopropyltoluene	U		0.00251	0.00538	1	10/14/2019 19:05	WG1362682
2-Butanone (MEK)	0.0173 U	B J J0	0.0135	0.0269	1	10/14/2019 19:05	WG1362682
Methylene Chloride	U		0.00715	0.0269	1	10/14/2019 19:05	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	10/14/2019 19:05	WG1362682

JC 11/11/19

MW-304-50
Collected date/time: 10/01/19 10:40

SAMPLE RESULTS - 09

L1147020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000318	0.00108	1	10/14/2019 19:05	WG1362682
Naphthalene	U		0.00336	0.0135	1	10/14/2019 19:05	WG1362682
n-Propylbenzene	U		0.00127	0.00538	1	10/14/2019 19:05	WG1362682
Styrene	U		0.00294	0.0135	1	10/14/2019 19:05	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	10/14/2019 19:05	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000420	0.00269	1	10/14/2019 19:05	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000727	0.00269	1	10/14/2019 19:05	WG1362682
Tetrachloroethene	U		0.000754	0.00269	1	10/14/2019 19:05	WG1362682
Toluene	0.00241 J	J	0.00135	0.00538	1	10/14/2019 19:05	WG1362682
1,2,3-Trichlorobenzene	U		0.000673	0.00269	1	10/14/2019 19:05	WG1362682
1,2,4-Trichlorobenzene	U		0.00519	0.0135	1	10/14/2019 19:05	WG1362682
1,1,1-Trichloroethane	U		0.000296	0.00269	1	10/14/2019 19:05	WG1362682
1,1,2-Trichloroethane	U		0.000951	0.00269	1	10/14/2019 19:05	WG1362682
Trichloroethene	U		0.000431	0.00108	1	10/14/2019 19:05	WG1362682
Trichlorofluoromethane	U		0.000538	0.00269	1	10/14/2019 19:05	WG1362682
1,2,3-Trichloropropane	U		0.00549	0.0135	1	10/14/2019 19:05	WG1362682
1,2,4-Trimethylbenzene	U		0.00125	0.00538	1	10/14/2019 19:05	WG1362682
1,2,3-Trimethylbenzene	U		0.00124	0.00538	1	10/14/2019 19:05	WG1362682
1,3,5-Trimethylbenzene	U		0.00116	0.00538	1	10/14/2019 19:05	WG1362682
Vinyl acetate	U		0.00379	0.0135	1	10/14/2019 19:05	WG1362682
Vinyl chloride	U		0.000735	0.00269	1	10/14/2019 19:05	WG1362682
Xylenes, Total	U		0.00515	0.00700	1	10/14/2019 19:05	WG1362682
(S) Toluene-d8	*104*			*75.0-131*		*10/14/2019 19:05*	WG1362682
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/14/2019 19:05*	WG1362682
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/14/2019 19:05*	WG1362682

JC 11/11/19

MW-304-55

Collected date/time: 10/01/19 10:45

SAMPLE RESULTS - 10

L1147020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.2		1	10/12/2019 12:50	WG1361906

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0138	0.0252	1	10/14/2019 19:25	WG1362682
Acrylonitrile	U		0.00192	0.0126	1	10/14/2019 19:25	WG1362682
Benzene	U		0.000403	0.00101	1	10/14/2019 19:25	WG1362682
Bromobenzene	U		0.00106	0.0126	1	10/14/2019 19:25	WG1362682
Bromodichloromethane	U		0.000794	0.00252	1	10/14/2019 19:25	WG1362682
Bromochloromethane	U		0.00114	0.00504	1	10/14/2019 19:25	WG1362682
Bromoform	U		0.00603	0.0252	1	10/14/2019 19:25	WG1362682
Bromomethane	U		0.00373	0.0126	1	10/14/2019 19:25	WG1362682
n-Butylbenzene	U		0.00387	0.0126	1	10/14/2019 19:25	WG1362682
sec-Butylbenzene	U		0.00255	0.0126	1	10/14/2019 19:25	WG1362682
tert-Butylbenzene	U		0.00156	0.00504	1	10/14/2019 19:25	WG1362682
Carbon disulfide	U		0.00409	0.0126	1	10/14/2019 19:25	WG1362682
Carbon tetrachloride	U		0.00109	0.00504	1	10/14/2019 19:25	WG1362682
Chlorobenzene	U		0.000578	0.00252	1	10/14/2019 19:25	WG1362682
Chlorodibromomethane	U		0.000454	0.00252	1	10/14/2019 19:25	WG1362682
Chloroethane	U		0.00109	0.00504	1	10/14/2019 19:25	WG1362682
Chloroform	0.000454 U	B J	0.000418	0.00252	1	10/14/2019 19:25	WG1362682
Chloromethane	U		0.00140	0.0126	1	10/14/2019 19:25	WG1362682
2-Chlorotoluene	U		0.000927	0.00252	1	10/14/2019 19:25	WG1362682
4-Chlorotoluene	U		0.00114	0.00504	1	10/14/2019 19:25	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00514	0.0252	1	10/14/2019 19:25	WG1362682
1,2-Dibromoethane	U		0.000529	0.00252	1	10/14/2019 19:25	WG1362682
Dibromomethane	U		0.00101	0.00504	1	10/14/2019 19:25	WG1362682
1,2-Dichlorobenzene	U		0.00146	0.00504	1	10/14/2019 19:25	WG1362682
1,3-Dichlorobenzene	U		0.00171	0.00504	1	10/14/2019 19:25	WG1362682
1,4-Dichlorobenzene	U		0.00199	0.00504	1	10/14/2019 19:25	WG1362682
Dichlorodifluoromethane	U		0.000825	0.00252	1	10/14/2019 19:25	WG1362682
1,1-Dichloroethane	U		0.000580	0.00252	1	10/14/2019 19:25	WG1362682
1,2-Dichloroethane	U		0.000479	0.00252	1	10/14/2019 19:25	WG1362682
1,1-Dichloroethene	U		0.000504	0.00252	1	10/14/2019 19:25	WG1362682
cis-1,2-Dichloroethene	U		0.000695	0.00252	1	10/14/2019 19:25	WG1362682
trans-1,2-Dichloroethene	U		0.00144	0.00504	1	10/14/2019 19:25	WG1362682
1,2-Dichloropropane	U		0.00128	0.00504	1	10/14/2019 19:25	WG1362682
1,1-Dichloropropene	U		0.000706	0.00252	1	10/14/2019 19:25	WG1362682
1,3-Dichloropropane	U		0.00176	0.00504	1	10/14/2019 19:25	WG1362682
cis-1,3-Dichloropropene	U		0.000683	0.00252	1	10/14/2019 19:25	WG1362682
trans-1,3-Dichloropropene	U		0.00154	0.00504	1	10/14/2019 19:25	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00141	0.00504	1	10/14/2019 19:25	WG1362682
2,2-Dichloropropane	U		0.000799	0.00252	1	10/14/2019 19:25	WG1362682
Di-isopropyl ether	U		0.000353	0.00101	1	10/14/2019 19:25	WG1362682
Ethylbenzene	U		0.000534	0.00252	1	10/14/2019 19:25	WG1362682
Hexachloro-1,3-butadiene	U		0.0128	0.0252	1	10/14/2019 19:25	WG1362682
2-Hexanone	U		0.0101	0.0252	1	10/14/2019 19:25	WG1362682
n-Hexane	U		0.00107	0.00504	1	10/14/2019 19:25	WG1362682
Iodomethane	U		0.00610	0.0126	1	10/14/2019 19:25	WG1362682
Isopropylbenzene	U		0.000870	0.00252	1	10/14/2019 19:25	WG1362682
p-Isopropyltoluene	U		0.00235	0.00504	1	10/14/2019 19:25	WG1362682
2-Butanone (MEK)	0.0163 U	B J J0	0.0126	0.0252	1	10/14/2019 19:25	WG1362682
Methylene Chloride	U		0.00669	0.0252	1	10/14/2019 19:25	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0101	0.0252	1	10/14/2019 19:25	WG1362682

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MW-304-55

Collected date/time: 10/01/19 10:45

SAMPLE RESULTS - 10

L1147020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000297	0.00101	1	10/14/2019 19:25	WG1362682
Naphthalene	U		0.00314	0.0126	1	10/14/2019 19:25	WG1362682
n-Propylbenzene	U		0.00119	0.00504	1	10/14/2019 19:25	WG1362682
Styrene	U		0.00275	0.0126	1	10/14/2019 19:25	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000504	0.00252	1	10/14/2019 19:25	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000393	0.00252	1	10/14/2019 19:25	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000680	0.00252	1	10/14/2019 19:25	WG1362682
Tetrachloroethene	U		0.000706	0.00252	1	10/14/2019 19:25	WG1362682
Toluene	0.00212 J	J	0.00126	0.00504	1	10/14/2019 19:25	WG1362682
1,2,3-Trichlorobenzene	U		0.000630	0.00252	1	10/14/2019 19:25	WG1362682
1,2,4-Trichlorobenzene	U		0.00486	0.0126	1	10/14/2019 19:25	WG1362682
1,1,1-Trichloroethane	U		0.000277	0.00252	1	10/14/2019 19:25	WG1362682
1,1,2-Trichloroethane	U		0.000890	0.00252	1	10/14/2019 19:25	WG1362682
Trichloroethene	U		0.000403	0.00101	1	10/14/2019 19:25	WG1362682
Trichlorofluoromethane	U		0.000504	0.00252	1	10/14/2019 19:25	WG1362682
1,2,3-Trichloropropane	U		0.00514	0.0126	1	10/14/2019 19:25	WG1362682
1,2,4-Trimethylbenzene	U		0.00117	0.00504	1	10/14/2019 19:25	WG1362682
1,2,3-Trimethylbenzene	U		0.00116	0.00504	1	10/14/2019 19:25	WG1362682
1,3,5-Trimethylbenzene	U		0.00109	0.00504	1	10/14/2019 19:25	WG1362682
Vinyl acetate	U		0.00355	0.0126	1	10/14/2019 19:25	WG1362682
Vinyl chloride	U		0.000688	0.00252	1	10/14/2019 19:25	WG1362682
Xylenes, Total	U		0.00482	0.00655	1	10/14/2019 19:25	WG1362682
(S) Toluene-d8	*103*			*75.0-131*		*10/14/2019 19:25*	WG1362682
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/14/2019 19:25*	WG1362682
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/14/2019 19:25*	WG1362682

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 11/11/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.8		1	10/12/2019 12:50	WG1361906

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0144	0.0264	1	10/14/2019 19:46	WG1362682
Acrylonitrile	U		0.00200	0.0132	1	10/14/2019 19:46	WG1362682
Benzene	0.000423 U	B J	0.000422	0.00105	1	10/14/2019 19:46	WG1362682
Bromobenzene	U		0.00111	0.0132	1	10/14/2019 19:46	WG1362682
Bromodichloromethane	U		0.000831	0.00264	1	10/14/2019 19:46	WG1362682
Bromochloromethane	U		0.00119	0.00527	1	10/14/2019 19:46	WG1362682
Bromoform	U		0.00631	0.0264	1	10/14/2019 19:46	WG1362682
Bromomethane	U		0.00390	0.0132	1	10/14/2019 19:46	WG1362682
n-Butylbenzene	U		0.00405	0.0132	1	10/14/2019 19:46	WG1362682
sec-Butylbenzene	U		0.00267	0.0132	1	10/14/2019 19:46	WG1362682
tert-Butylbenzene	U		0.00163	0.00527	1	10/14/2019 19:46	WG1362682
Carbon disulfide	U		0.00428	0.0132	1	10/14/2019 19:46	WG1362682
Carbon tetrachloride	U		0.00114	0.00527	1	10/14/2019 19:46	WG1362682
Chlorobenzene	U		0.000604	0.00264	1	10/14/2019 19:46	WG1362682
Chlorodibromomethane	U		0.000475	0.00264	1	10/14/2019 19:46	WG1362682
Chloroethane	U		0.00114	0.00527	1	10/14/2019 19:46	WG1362682
Chloroform	U		0.000438	0.00264	1	10/14/2019 19:46	WG1362682
Chloromethane	U		0.00147	0.0132	1	10/14/2019 19:46	WG1362682
2-Chlorotoluene	U		0.000970	0.00264	1	10/14/2019 19:46	WG1362682
4-Chlorotoluene	U		0.00119	0.00527	1	10/14/2019 19:46	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00538	0.0264	1	10/14/2019 19:46	WG1362682
1,2-Dibromoethane	U		0.000554	0.00264	1	10/14/2019 19:46	WG1362682
Dibromomethane	U		0.00105	0.00527	1	10/14/2019 19:46	WG1362682
1,2-Dichlorobenzene	U		0.00153	0.00527	1	10/14/2019 19:46	WG1362682
1,3-Dichlorobenzene	U		0.00179	0.00527	1	10/14/2019 19:46	WG1362682
1,4-Dichlorobenzene	U		0.00208	0.00527	1	10/14/2019 19:46	WG1362682
Dichlorodifluoromethane	U		0.000863	0.00264	1	10/14/2019 19:46	WG1362682
1,1-Dichloroethane	U		0.000606	0.00264	1	10/14/2019 19:46	WG1362682
1,2-Dichloroethane	U		0.000501	0.00264	1	10/14/2019 19:46	WG1362682
1,1-Dichloroethene	U		0.000527	0.00264	1	10/14/2019 19:46	WG1362682
cis-1,2-Dichloroethene	U		0.000728	0.00264	1	10/14/2019 19:46	WG1362682
trans-1,2-Dichloroethene	U		0.00151	0.00527	1	10/14/2019 19:46	WG1362682
1,2-Dichloropropane	U		0.00134	0.00527	1	10/14/2019 19:46	WG1362682
1,1-Dichloropropene	U		0.000738	0.00264	1	10/14/2019 19:46	WG1362682
1,3-Dichloropropane	U		0.00185	0.00527	1	10/14/2019 19:46	WG1362682
cis-1,3-Dichloropropene	U		0.000715	0.00264	1	10/14/2019 19:46	WG1362682
trans-1,3-Dichloropropene	U		0.00161	0.00527	1	10/14/2019 19:46	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00148	0.00527	1	10/14/2019 19:46	WG1362682
2,2-Dichloropropane	U		0.000836	0.00264	1	10/14/2019 19:46	WG1362682
Di-isopropyl ether	U		0.000369	0.00105	1	10/14/2019 19:46	WG1362682
Ethylbenzene	U		0.000559	0.00264	1	10/14/2019 19:46	WG1362682
Hexachloro-1,3-butadiene	U		0.0134	0.0264	1	10/14/2019 19:46	WG1362682
2-Hexanone	U		0.0105	0.0264	1	10/14/2019 19:46	WG1362682
n-Hexane	0.00452 J	J	0.00112	0.00527	1	10/14/2019 19:46	WG1362682
Iodomethane	U		0.00638	0.0132	1	10/14/2019 19:46	WG1362682
Isopropylbenzene	U		0.000910	0.00264	1	10/14/2019 19:46	WG1362682
p-Isopropyltoluene	U		0.00246	0.00527	1	10/14/2019 19:46	WG1362682
2-Butanone (MEK)	0.0183 U	B J J0	0.0132	0.0264	1	10/14/2019 19:46	WG1362682
Methylene Chloride	U		0.00700	0.0264	1	10/14/2019 19:46	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0264	1	10/14/2019 19:46	WG1362682

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MW-304-60

Collected date/time: 10/01/19 10:50

SAMPLE RESULTS - 11

L1147020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000311	0.00105	1	10/14/2019 19:46	WG1362682
Naphthalene	U		0.00329	0.0132	1	10/14/2019 19:46	WG1362682
n-Propylbenzene	U		0.00124	0.00527	1	10/14/2019 19:46	WG1362682
Styrene	U		0.00288	0.0132	1	10/14/2019 19:46	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000527	0.00264	1	10/14/2019 19:46	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000411	0.00264	1	10/14/2019 19:46	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000712	0.00264	1	10/14/2019 19:46	WG1362682
Tetrachloroethene	U		0.000738	0.00264	1	10/14/2019 19:46	WG1362682
Toluene	0.00355 J	J	0.00132	0.00527	1	10/14/2019 19:46	WG1362682
1,2,3-Trichlorobenzene	U		0.000659	0.00264	1	10/14/2019 19:46	WG1362682
1,2,4-Trichlorobenzene	U		0.00508	0.0132	1	10/14/2019 19:46	WG1362682
1,1,1-Trichloroethane	U		0.000290	0.00264	1	10/14/2019 19:46	WG1362682
1,1,2-Trichloroethane	U		0.000931	0.00264	1	10/14/2019 19:46	WG1362682
Trichloroethene	U		0.000422	0.00105	1	10/14/2019 19:46	WG1362682
Trichlorofluoromethane	U		0.000527	0.00264	1	10/14/2019 19:46	WG1362682
1,2,3-Trichloropropane	U		0.00538	0.0132	1	10/14/2019 19:46	WG1362682
1,2,4-Trimethylbenzene	U		0.00122	0.00527	1	10/14/2019 19:46	WG1362682
1,2,3-Trimethylbenzene	U		0.00121	0.00527	1	10/14/2019 19:46	WG1362682
1,3,5-Trimethylbenzene	U		0.00114	0.00527	1	10/14/2019 19:46	WG1362682
Vinyl acetate	U		0.00371	0.0132	1	10/14/2019 19:46	WG1362682
Vinyl chloride	U		0.000720	0.00264	1	10/14/2019 19:46	WG1362682
Xylenes, Total	U		0.00504	0.00685	1	10/14/2019 19:46	WG1362682
(S) Toluene-d8	*104*			*75.0-131*		*10/14/2019 19:46*	WG1362682
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/14/2019 19:46*	WG1362682
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/14/2019 19:46*	WG1362682

JC 11/11/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.3		1	10/12/2019 12:50	WG1361906

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0159	0.0290	1	10/14/2019 20:07	WG1362682
Acrylonitrile	U		0.00220	0.0145	1	10/14/2019 20:07	WG1362682
Benzene	U		0.000463	0.00116	1	10/14/2019 20:07	WG1362682
Bromobenzene	U		0.00122	0.0145	1	10/14/2019 20:07	WG1362682
Bromodichloromethane	U		0.000913	0.00290	1	10/14/2019 20:07	WG1362682
Bromochloromethane	U		0.00131	0.00579	1	10/14/2019 20:07	WG1362682
Bromoform	U		0.00693	0.0290	1	10/14/2019 20:07	WG1362682
Bromomethane	U		0.00429	0.0145	1	10/14/2019 20:07	WG1362682
n-Butylbenzene	U		0.00445	0.0145	1	10/14/2019 20:07	WG1362682
sec-Butylbenzene	U		0.00293	0.0145	1	10/14/2019 20:07	WG1362682
tert-Butylbenzene	U		0.00180	0.00579	1	10/14/2019 20:07	WG1362682
Carbon disulfide	U		0.00470	0.0145	1	10/14/2019 20:07	WG1362682
Carbon tetrachloride	U		0.00125	0.00579	1	10/14/2019 20:07	WG1362682
Chlorobenzene	U		0.000664	0.00290	1	10/14/2019 20:07	WG1362682
Chlorodibromomethane	U		0.000521	0.00290	1	10/14/2019 20:07	WG1362682
Chloroethane	U		0.00125	0.00579	1	10/14/2019 20:07	WG1362682
Chloroform	U		0.000481	0.00290	1	10/14/2019 20:07	WG1362682
Chloromethane	U		0.00161	0.0145	1	10/14/2019 20:07	WG1362682
2-Chlorotoluene	U		0.00107	0.00290	1	10/14/2019 20:07	WG1362682
4-Chlorotoluene	U		0.00131	0.00579	1	10/14/2019 20:07	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0290	1	10/14/2019 20:07	WG1362682
1,2-Dibromoethane	U		0.000608	0.00290	1	10/14/2019 20:07	WG1362682
Dibromomethane	U		0.00116	0.00579	1	10/14/2019 20:07	WG1362682
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/14/2019 20:07	WG1362682
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/14/2019 20:07	WG1362682
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/14/2019 20:07	WG1362682
Dichlorodifluoromethane	U		0.000947	0.00290	1	10/14/2019 20:07	WG1362682
1,1-Dichloroethane	U		0.000666	0.00290	1	10/14/2019 20:07	WG1362682
1,2-Dichloroethane	U		0.000550	0.00290	1	10/14/2019 20:07	WG1362682
1,1-Dichloroethene	U		0.000579	0.00290	1	10/14/2019 20:07	WG1362682
cis-1,2-Dichloroethene	U		0.000799	0.00290	1	10/14/2019 20:07	WG1362682
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	10/14/2019 20:07	WG1362682
1,2-Dichloropropane	U		0.00147	0.00579	1	10/14/2019 20:07	WG1362682
1,1-Dichloropropene	U		0.000811	0.00290	1	10/14/2019 20:07	WG1362682
1,3-Dichloropropane	U		0.00203	0.00579	1	10/14/2019 20:07	WG1362682
cis-1,3-Dichloropropene	U		0.000785	0.00290	1	10/14/2019 20:07	WG1362682
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	10/14/2019 20:07	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/14/2019 20:07	WG1362682
2,2-Dichloropropane	U		0.000918	0.00290	1	10/14/2019 20:07	WG1362682
Di-isopropyl ether	U		0.000405	0.00116	1	10/14/2019 20:07	WG1362682
Ethylbenzene	U		0.000614	0.00290	1	10/14/2019 20:07	WG1362682
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/14/2019 20:07	WG1362682
2-Hexanone	U		0.0116	0.0290	1	10/14/2019 20:07	WG1362682
n-Hexane	U		0.00123	0.00579	1	10/14/2019 20:07	WG1362682
Iodomethane	U		0.00701	0.0145	1	10/14/2019 20:07	WG1362682
Isopropylbenzene	U		0.000999	0.00290	1	10/14/2019 20:07	WG1362682
p-Isopropyltoluene	U		0.00270	0.00579	1	10/14/2019 20:07	WG1362682
2-Butanone (MEK)	0.0199 U	B J J0	0.0145	0.0290	1	10/14/2019 20:07	WG1362682
Methylene Chloride	U		0.00769	0.0290	1	10/14/2019 20:07	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/14/2019 20:07	WG1362682

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MW-304-65

Collected date/time: 10/01/19 11:30

SAMPLE RESULTS - 12

L1147020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	10/14/2019 20:07	WG1362682
Naphthalene	U		0.00361	0.0145	1	10/14/2019 20:07	WG1362682
n-Propylbenzene	U		0.00137	0.00579	1	10/14/2019 20:07	WG1362682
Styrene	U		0.00316	0.0145	1	10/14/2019 20:07	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	10/14/2019 20:07	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	10/14/2019 20:07	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	10/14/2019 20:07	WG1362682
Tetrachloroethene	U		0.000811	0.00290	1	10/14/2019 20:07	WG1362682
Toluene	0.00168 J	J	0.00145	0.00579	1	10/14/2019 20:07	WG1362682
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	10/14/2019 20:07	WG1362682
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	10/14/2019 20:07	WG1362682
1,1,1-Trichloroethane	U		0.000318	0.00290	1	10/14/2019 20:07	WG1362682
1,1,2-Trichloroethane	U		0.00102	0.00290	1	10/14/2019 20:07	WG1362682
Trichloroethene	U		0.000463	0.00116	1	10/14/2019 20:07	WG1362682
Trichlorofluoromethane	U		0.000579	0.00290	1	10/14/2019 20:07	WG1362682
1,2,3-Trichloropropane	U		0.00591	0.0145	1	10/14/2019 20:07	WG1362682
1,2,4-Trimethylbenzene	U		0.00134	0.00579	1	10/14/2019 20:07	WG1362682
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	10/14/2019 20:07	WG1362682
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	10/14/2019 20:07	WG1362682
Vinyl acetate	U		0.00408	0.0145	1	10/14/2019 20:07	WG1362682
Vinyl chloride	U		0.000791	0.00290	1	10/14/2019 20:07	WG1362682
Xylenes, Total	U		0.00554	0.00753	1	10/14/2019 20:07	WG1362682
(S) Toluene-d8	*103*			*75.0-131*		*10/14/2019 20:07*	WG1362682
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*10/14/2019 20:07*	WG1362682
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/14/2019 20:07*	WG1362682

JC 11/11/19

MW-304-70

Collected date/time: 10/01/19 11:35

SAMPLE RESULTS - 13

L1147020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.3		1	10/12/2019 12:50	WG1361906

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0166	0.0304	1	10/14/2019 20:28	WG1362682
Acrylonitrile	U		0.00231	0.0152	1	10/14/2019 20:28	WG1362682
Benzene	U		0.000486	0.00121	1	10/14/2019 20:28	WG1362682
Bromobenzene	U		0.00128	0.0152	1	10/14/2019 20:28	WG1362682
Bromodichloromethane	U		0.000957	0.00304	1	10/14/2019 20:28	WG1362682
Bromochloromethane	U		0.00137	0.00607	1	10/14/2019 20:28	WG1362682
Bromoform	U		0.00726	0.0304	1	10/14/2019 20:28	WG1362682
Bromomethane	U		0.00449	0.0152	1	10/14/2019 20:28	WG1362682
n-Butylbenzene	U		0.00467	0.0152	1	10/14/2019 20:28	WG1362682
sec-Butylbenzene	U		0.00307	0.0152	1	10/14/2019 20:28	WG1362682
tert-Butylbenzene	U		0.00188	0.00607	1	10/14/2019 20:28	WG1362682
Carbon disulfide	U		0.00493	0.0152	1	10/14/2019 20:28	WG1362682
Carbon tetrachloride	U		0.00131	0.00607	1	10/14/2019 20:28	WG1362682
Chlorobenzene	U		0.000696	0.00304	1	10/14/2019 20:28	WG1362682
Chlorodibromomethane	U		0.000547	0.00304	1	10/14/2019 20:28	WG1362682
Chloroethane	U		0.00131	0.00607	1	10/14/2019 20:28	WG1362682
Chloroform	U		0.000504	0.00304	1	10/14/2019 20:28	WG1362682
Chloromethane	U		0.00169	0.0152	1	10/14/2019 20:28	WG1362682
2-Chlorotoluene	U		0.00112	0.00304	1	10/14/2019 20:28	WG1362682
4-Chlorotoluene	U		0.00137	0.00607	1	10/14/2019 20:28	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00620	0.0304	1	10/14/2019 20:28	WG1362682
1,2-Dibromoethane	U		0.000638	0.00304	1	10/14/2019 20:28	WG1362682
Dibromomethane	U		0.00121	0.00607	1	10/14/2019 20:28	WG1362682
1,2-Dichlorobenzene	U		0.00176	0.00607	1	10/14/2019 20:28	WG1362682
1,3-Dichlorobenzene	U		0.00207	0.00607	1	10/14/2019 20:28	WG1362682
1,4-Dichlorobenzene	U		0.00239	0.00607	1	10/14/2019 20:28	WG1362682
Dichlorodifluoromethane	U		0.000994	0.00304	1	10/14/2019 20:28	WG1362682
1,1-Dichloroethane	U		0.000699	0.00304	1	10/14/2019 20:28	WG1362682
1,2-Dichloroethane	U		0.000577	0.00304	1	10/14/2019 20:28	WG1362682
1,1-Dichloroethene	U		0.000607	0.00304	1	10/14/2019 20:28	WG1362682
cis-1,2-Dichloroethene	U		0.000838	0.00304	1	10/14/2019 20:28	WG1362682
trans-1,2-Dichloroethene	U		0.00174	0.00607	1	10/14/2019 20:28	WG1362682
1,2-Dichloropropane	U		0.00154	0.00607	1	10/14/2019 20:28	WG1362682
1,1-Dichloropropene	U		0.000850	0.00304	1	10/14/2019 20:28	WG1362682
1,3-Dichloropropane	U		0.00213	0.00607	1	10/14/2019 20:28	WG1362682
cis-1,3-Dichloropropene	U		0.000824	0.00304	1	10/14/2019 20:28	WG1362682
trans-1,3-Dichloropropene	U		0.00186	0.00607	1	10/14/2019 20:28	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00170	0.00607	1	10/14/2019 20:28	WG1362682
2,2-Dichloropropane	U		0.000963	0.00304	1	10/14/2019 20:28	WG1362682
Di-isopropyl ether	U		0.000425	0.00121	1	10/14/2019 20:28	WG1362682
Ethylbenzene	U		0.000644	0.00304	1	10/14/2019 20:28	WG1362682
Hexachloro-1,3-butadiene	U		0.0154	0.0304	1	10/14/2019 20:28	WG1362682
2-Hexanone	U		0.0121	0.0304	1	10/14/2019 20:28	WG1362682
n-Hexane	U		0.00129	0.00607	1	10/14/2019 20:28	WG1362682
Iodomethane	U		0.00735	0.0152	1	10/14/2019 20:28	WG1362682
Isopropylbenzene	U		0.00105	0.00304	1	10/14/2019 20:28	WG1362682
p-Isopropyltoluene	U		0.00283	0.00607	1	10/14/2019 20:28	WG1362682
2-Butanone (MEK)	0.0198 U	B J J0	0.0152	0.0304	1	10/14/2019 20:28	WG1362682
Methylene Chloride	U		0.00807	0.0304	1	10/14/2019 20:28	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0304	1	10/14/2019 20:28	WG1362682

JC 11/11/19

MW-304-70

Collected date/time: 10/01/19 11:35

SAMPLE RESULTS - 13

L1147020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000358	0.00121	1	10/14/2019 20:28	WG1362682
Naphthalene	U		0.00379	0.0152	1	10/14/2019 20:28	WG1362682
n-Propylbenzene	U		0.00143	0.00607	1	10/14/2019 20:28	WG1362682
Styrene	U		0.00332	0.0152	1	10/14/2019 20:28	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000607	0.00304	1	10/14/2019 20:28	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000474	0.00304	1	10/14/2019 20:28	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000820	0.00304	1	10/14/2019 20:28	WG1362682
Tetrachloroethene	U		0.000850	0.00304	1	10/14/2019 20:28	WG1362682
Toluene	0.00270 J	J	0.00152	0.00607	1	10/14/2019 20:28	WG1362682
1,2,3-Trichlorobenzene	U		0.000759	0.00304	1	10/14/2019 20:28	WG1362682
1,2,4-Trichlorobenzene	U		0.00586	0.0152	1	10/14/2019 20:28	WG1362682
1,1,1-Trichloroethane	U		0.000334	0.00304	1	10/14/2019 20:28	WG1362682
1,1,2-Trichloroethane	U		0.00107	0.00304	1	10/14/2019 20:28	WG1362682
Trichloroethene	U		0.000486	0.00121	1	10/14/2019 20:28	WG1362682
Trichlorofluoromethane	U		0.000607	0.00304	1	10/14/2019 20:28	WG1362682
1,2,3-Trichloropropane	U		0.00620	0.0152	1	10/14/2019 20:28	WG1362682
1,2,4-Trimethylbenzene	U		0.00141	0.00607	1	10/14/2019 20:28	WG1362682
1,2,3-Trimethylbenzene	U		0.00140	0.00607	1	10/14/2019 20:28	WG1362682
1,3,5-Trimethylbenzene	U		0.00131	0.00607	1	10/14/2019 20:28	WG1362682
Vinyl acetate	U		0.00428	0.0152	1	10/14/2019 20:28	WG1362682
Vinyl chloride	U		0.000830	0.00304	1	10/14/2019 20:28	WG1362682
Xylenes, Total	U		0.00581	0.00790	1	10/14/2019 20:28	WG1362682
(S) Toluene-d8	*104*			*75.0-131*		*10/14/2019 20:28*	WG1362682
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/14/2019 20:28*	WG1362682
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/14/2019 20:28*	WG1362682

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.3		1	10/12/2019 12:50	WG1361906

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0157	0.0286	1	10/14/2019 20:48	WG1362682
Acrylonitrile	U		0.00218	0.0143	1	10/14/2019 20:48	WG1362682
Benzene	U		0.000458	0.00114	1	10/14/2019 20:48	WG1362682
Bromobenzene	U		0.00120	0.0143	1	10/14/2019 20:48	WG1362682
Bromodichloromethane	U		0.000902	0.00286	1	10/14/2019 20:48	WG1362682
Bromochloromethane	U		0.00129	0.00572	1	10/14/2019 20:48	WG1362682
Bromoform	U		0.00685	0.0286	1	10/14/2019 20:48	WG1362682
Bromomethane	U		0.00424	0.0143	1	10/14/2019 20:48	WG1362682
n-Butylbenzene	U		0.00440	0.0143	1	10/14/2019 20:48	WG1362682
sec-Butylbenzene	U		0.00290	0.0143	1	10/14/2019 20:48	WG1362682
tert-Butylbenzene	U		0.00177	0.00572	1	10/14/2019 20:48	WG1362682
Carbon disulfide	U		0.00465	0.0143	1	10/14/2019 20:48	WG1362682
Carbon tetrachloride	U		0.00124	0.00572	1	10/14/2019 20:48	WG1362682
Chlorobenzene	U		0.000656	0.00286	1	10/14/2019 20:48	WG1362682
Chlorodibromomethane	U		0.000515	0.00286	1	10/14/2019 20:48	WG1362682
Chloroethane	U		0.00124	0.00572	1	10/14/2019 20:48	WG1362682
Chloroform	0.000661	U B J	0.000475	0.00286	1	10/14/2019 20:48	WG1362682
Chloromethane	U		0.00159	0.0143	1	10/14/2019 20:48	WG1362682
2-Chlorotoluene	U		0.00105	0.00286	1	10/14/2019 20:48	WG1362682
4-Chlorotoluene	U		0.00129	0.00572	1	10/14/2019 20:48	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00584	0.0286	1	10/14/2019 20:48	WG1362682
1,2-Dibromoethane	U		0.000601	0.00286	1	10/14/2019 20:48	WG1362682
Dibromomethane	U		0.00114	0.00572	1	10/14/2019 20:48	WG1362682
1,2-Dichlorobenzene	U		0.00166	0.00572	1	10/14/2019 20:48	WG1362682
1,3-Dichlorobenzene	U		0.00195	0.00572	1	10/14/2019 20:48	WG1362682
1,4-Dichlorobenzene	U		0.00226	0.00572	1	10/14/2019 20:48	WG1362682
Dichlorodifluoromethane	U		0.000937	0.00286	1	10/14/2019 20:48	WG1362682
1,1-Dichloroethane	U		0.000658	0.00286	1	10/14/2019 20:48	WG1362682
1,2-Dichloroethane	U		0.000544	0.00286	1	10/14/2019 20:48	WG1362682
1,1-Dichloroethene	U		0.000572	0.00286	1	10/14/2019 20:48	WG1362682
cis-1,2-Dichloroethene	U		0.000790	0.00286	1	10/14/2019 20:48	WG1362682
trans-1,2-Dichloroethene	0.00185	J J	0.00164	0.00572	1	10/14/2019 20:48	WG1362682
1,2-Dichloropropane	U		0.00145	0.00572	1	10/14/2019 20:48	WG1362682
1,1-Dichloropropene	U		0.000801	0.00286	1	10/14/2019 20:48	WG1362682
1,3-Dichloropropane	U		0.00200	0.00572	1	10/14/2019 20:48	WG1362682
cis-1,3-Dichloropropene	U		0.000776	0.00286	1	10/14/2019 20:48	WG1362682
trans-1,3-Dichloropropene	U		0.00175	0.00572	1	10/14/2019 20:48	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00160	0.00572	1	10/14/2019 20:48	WG1362682
2,2-Dichloropropane	U		0.000908	0.00286	1	10/14/2019 20:48	WG1362682
Di-isopropyl ether	U		0.000401	0.00114	1	10/14/2019 20:48	WG1362682
Ethylbenzene	0.000619	J J	0.000607	0.00286	1	10/14/2019 20:48	WG1362682
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	10/14/2019 20:48	WG1362682
2-Hexanone	U		0.0114	0.0286	1	10/14/2019 20:48	WG1362682
n-Hexane	U		0.00121	0.00572	1	10/14/2019 20:48	WG1362682
Iodomethane	U		0.00693	0.0143	1	10/14/2019 20:48	WG1362682
Isopropylbenzene	U		0.000988	0.00286	1	10/14/2019 20:48	WG1362682
p-Isopropyltoluene	U		0.00267	0.00572	1	10/14/2019 20:48	WG1362682
2-Butanone (MEK)	0.0396	U B J0	0.0143	0.0286	1	10/14/2019 20:48	WG1362682
Methylene Chloride	0.00789	J J	0.00760	0.0286	1	10/14/2019 20:48	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	10/14/2019 20:48	WG1362682

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000338	0.00114	1	10/14/2019 20:48	WG1362682
Naphthalene	U		0.00357	0.0143	1	10/14/2019 20:48	WG1362682
n-Propylbenzene	U		0.00135	0.00572	1	10/14/2019 20:48	WG1362682
Styrene	U		0.00313	0.0143	1	10/14/2019 20:48	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000572	0.00286	1	10/14/2019 20:48	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000447	0.00286	1	10/14/2019 20:48	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000773	0.00286	1	10/14/2019 20:48	WG1362682
Tetrachloroethene	U		0.000801	0.00286	1	10/14/2019 20:48	WG1362682
Toluene	0.0284		0.00143	0.00572	1	10/14/2019 20:48	WG1362682
1,2,3-Trichlorobenzene	U		0.000716	0.00286	1	10/14/2019 20:48	WG1362682
1,2,4-Trichlorobenzene	U		0.00552	0.0143	1	10/14/2019 20:48	WG1362682
1,1,1-Trichloroethane	U		0.000315	0.00286	1	10/14/2019 20:48	WG1362682
1,1,2-Trichloroethane	U		0.00101	0.00286	1	10/14/2019 20:48	WG1362682
Trichloroethene	U		0.000458	0.00114	1	10/14/2019 20:48	WG1362682
Trichlorofluoromethane	U		0.000572	0.00286	1	10/14/2019 20:48	WG1362682
1,2,3-Trichloropropane	U		0.00584	0.0143	1	10/14/2019 20:48	WG1362682
1,2,4-Trimethylbenzene	U		0.00133	0.00572	1	10/14/2019 20:48	WG1362682
1,2,3-Trimethylbenzene	U		0.00132	0.00572	1	10/14/2019 20:48	WG1362682
1,3,5-Trimethylbenzene	U		0.00124	0.00572	1	10/14/2019 20:48	WG1362682
Vinyl acetate	U		0.00403	0.0143	1	10/14/2019 20:48	WG1362682
Vinyl chloride	U		0.000782	0.00286	1	10/14/2019 20:48	WG1362682
Xylenes, Total	U		0.00547	0.00744	1	10/14/2019 20:48	WG1362682
(S) Toluene-d8	*103*			*75.0-131*		*10/14/2019 20:48*	WG1362682
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*10/14/2019 20:48*	WG1362682
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/14/2019 20:48*	WG1362682

JC 11/11/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.4		1	10/12/2019 12:50	WG1361906

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0274	1	10/14/2019 21:09	WG1362682
Acrylonitrile	U		0.00208	0.0137	1	10/14/2019 21:09	WG1362682
Benzene	U		0.000438	0.00109	1	10/14/2019 21:09	WG1362682
Bromobenzene	U		0.00115	0.0137	1	10/14/2019 21:09	WG1362682
Bromodichloromethane	U		0.000862	0.00274	1	10/14/2019 21:09	WG1362682
Bromochloromethane	U		0.00124	0.00547	1	10/14/2019 21:09	WG1362682
Bromoform	U		0.00655	0.0274	1	10/14/2019 21:09	WG1362682
Bromomethane	U		0.00405	0.0137	1	10/14/2019 21:09	WG1362682
n-Butylbenzene	U		0.00420	0.0137	1	10/14/2019 21:09	WG1362682
sec-Butylbenzene	U		0.00277	0.0137	1	10/14/2019 21:09	WG1362682
tert-Butylbenzene	U		0.00170	0.00547	1	10/14/2019 21:09	WG1362682
Carbon disulfide	U		0.00444	0.0137	1	10/14/2019 21:09	WG1362682
Carbon tetrachloride	U		0.00118	0.00547	1	10/14/2019 21:09	WG1362682
Chlorobenzene	U		0.000627	0.00274	1	10/14/2019 21:09	WG1362682
Chlorodibromomethane	U		0.000493	0.00274	1	10/14/2019 21:09	WG1362682
Chloroethane	U		0.00118	0.00547	1	10/14/2019 21:09	WG1362682
Chloroform	U		0.000454	0.00274	1	10/14/2019 21:09	WG1362682
Chloromethane	U		0.00152	0.0137	1	10/14/2019 21:09	WG1362682
2-Chlorotoluene	U		0.00101	0.00274	1	10/14/2019 21:09	WG1362682
4-Chlorotoluene	U		0.00124	0.00547	1	10/14/2019 21:09	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00558	0.0274	1	10/14/2019 21:09	WG1362682
1,2-Dibromoethane	U		0.000575	0.00274	1	10/14/2019 21:09	WG1362682
Dibromomethane	U		0.00109	0.00547	1	10/14/2019 21:09	WG1362682
1,2-Dichlorobenzene	U		0.00159	0.00547	1	10/14/2019 21:09	WG1362682
1,3-Dichlorobenzene	U		0.00186	0.00547	1	10/14/2019 21:09	WG1362682
1,4-Dichlorobenzene	U		0.00216	0.00547	1	10/14/2019 21:09	WG1362682
Dichlorodifluoromethane	U		0.000895	0.00274	1	10/14/2019 21:09	WG1362682
1,1-Dichloroethane	U		0.000629	0.00274	1	10/14/2019 21:09	WG1362682
1,2-Dichloroethane	U		0.000520	0.00274	1	10/14/2019 21:09	WG1362682
1,1-Dichloroethene	U		0.000547	0.00274	1	10/14/2019 21:09	WG1362682
cis-1,2-Dichloroethene	U		0.000755	0.00274	1	10/14/2019 21:09	WG1362682
trans-1,2-Dichloroethene	U		0.00157	0.00547	1	10/14/2019 21:09	WG1362682
1,2-Dichloropropane	U		0.00139	0.00547	1	10/14/2019 21:09	WG1362682
1,1-Dichloropropene	U		0.000766	0.00274	1	10/14/2019 21:09	WG1362682
1,3-Dichloropropane	U		0.00192	0.00547	1	10/14/2019 21:09	WG1362682
cis-1,3-Dichloropropene	U		0.000742	0.00274	1	10/14/2019 21:09	WG1362682
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	10/14/2019 21:09	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	10/14/2019 21:09	WG1362682
2,2-Dichloropropane	U		0.000868	0.00274	1	10/14/2019 21:09	WG1362682
Di-isopropyl ether	U		0.000383	0.00109	1	10/14/2019 21:09	WG1362682
Ethylbenzene	U		0.000580	0.00274	1	10/14/2019 21:09	WG1362682
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	10/14/2019 21:09	WG1362682
2-Hexanone	U		0.0109	0.0274	1	10/14/2019 21:09	WG1362682
n-Hexane	U		0.00116	0.00547	1	10/14/2019 21:09	WG1362682
Iodomethane	U		0.00662	0.0137	1	10/14/2019 21:09	WG1362682
Isopropylbenzene	U		0.000945	0.00274	1	10/14/2019 21:09	WG1362682
p-Isopropyltoluene	U		0.00255	0.00547	1	10/14/2019 21:09	WG1362682
2-Butanone (MEK)	0.0204 U	B J J0	0.0137	0.0274	1	10/14/2019 21:09	WG1362682
Methylene Chloride	U		0.00727	0.0274	1	10/14/2019 21:09	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0274	1	10/14/2019 21:09	WG1362682

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000323	0.00109	1	10/14/2019 21:09	WG1362682
Naphthalene	U			0.00341	0.0137	1	10/14/2019 21:09	WG1362682
n-Propylbenzene	U			0.00129	0.00547	1	10/14/2019 21:09	WG1362682
Styrene	U			0.00299	0.0137	1	10/14/2019 21:09	WG1362682
1,1,1,2-Tetrachloroethane	U			0.000547	0.00274	1	10/14/2019 21:09	WG1362682
1,1,2,2-Tetrachloroethane	U			0.000427	0.00274	1	10/14/2019 21:09	WG1362682
1,1,2-Trichlorotrifluoroethane	U			0.000739	0.00274	1	10/14/2019 21:09	WG1362682
Tetrachloroethene	U			0.000766	0.00274	1	10/14/2019 21:09	WG1362682
Toluene	0.00188	J	J	0.00137	0.00547	1	10/14/2019 21:09	WG1362682
1,2,3-Trichlorobenzene	U			0.000684	0.00274	1	10/14/2019 21:09	WG1362682
1,2,4-Trichlorobenzene	U			0.00528	0.0137	1	10/14/2019 21:09	WG1362682
1,1,1-Trichloroethane	U			0.000301	0.00274	1	10/14/2019 21:09	WG1362682
1,1,2-Trichloroethane	U			0.000966	0.00274	1	10/14/2019 21:09	WG1362682
Trichloroethene	U			0.000438	0.00109	1	10/14/2019 21:09	WG1362682
Trichlorofluoromethane	U			0.000547	0.00274	1	10/14/2019 21:09	WG1362682
1,2,3-Trichloropropane	U			0.00558	0.0137	1	10/14/2019 21:09	WG1362682
1,2,4-Trimethylbenzene	U			0.00127	0.00547	1	10/14/2019 21:09	WG1362682
1,2,3-Trimethylbenzene	U			0.00126	0.00547	1	10/14/2019 21:09	WG1362682
1,3,5-Trimethylbenzene	U			0.00118	0.00547	1	10/14/2019 21:09	WG1362682
Vinyl acetate	U			0.00385	0.0137	1	10/14/2019 21:09	WG1362682
Vinyl chloride	U			0.000748	0.00274	1	10/14/2019 21:09	WG1362682
Xylenes, Total	U			0.00523	0.00711	1	10/14/2019 21:09	WG1362682
(S) Toluene-d8	*102*				*75.0-131*		*10/14/2019 21:09*	WG1362682
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*10/14/2019 21:09*	WG1362682
(S) 1,2-Dichloroethane-d4	*105*				*70.0-130*		*10/14/2019 21:09*	WG1362682

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MW-304-85

Collected date/time: 10/01/19 13:30

SAMPLE RESULTS - 16

L1147020

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.3		1	10/12/2019 12:50	WG1361906

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0274	1	10/14/2019 21:30	WG1362682
Acrylonitrile	U		0.00208	0.0137	1	10/14/2019 21:30	WG1362682
Benzene	U		0.000438	0.00110	1	10/14/2019 21:30	WG1362682
Bromobenzene	U		0.00115	0.0137	1	10/14/2019 21:30	WG1362682
Bromodichloromethane	U		0.000863	0.00274	1	10/14/2019 21:30	WG1362682
Bromochloromethane	U		0.00124	0.00548	1	10/14/2019 21:30	WG1362682
Bromoform	U		0.00655	0.0274	1	10/14/2019 21:30	WG1362682
Bromomethane	U		0.00405	0.0137	1	10/14/2019 21:30	WG1362682
n-Butylbenzene	U		0.00421	0.0137	1	10/14/2019 21:30	WG1362682
sec-Butylbenzene	U		0.00277	0.0137	1	10/14/2019 21:30	WG1362682
tert-Butylbenzene	U		0.00170	0.00548	1	10/14/2019 21:30	WG1362682
Carbon disulfide	U		0.00445	0.0137	1	10/14/2019 21:30	WG1362682
Carbon tetrachloride	U		0.00118	0.00548	1	10/14/2019 21:30	WG1362682
Chlorobenzene	U		0.000628	0.00274	1	10/14/2019 21:30	WG1362682
Chlorodibromomethane	U		0.000493	0.00274	1	10/14/2019 21:30	WG1362682
Chloroethane	U		0.00118	0.00548	1	10/14/2019 21:30	WG1362682
Chloroform	U		0.000455	0.00274	1	10/14/2019 21:30	WG1362682
Chloromethane	U		0.00152	0.0137	1	10/14/2019 21:30	WG1362682
2-Chlorotoluene	U		0.00101	0.00274	1	10/14/2019 21:30	WG1362682
4-Chlorotoluene	U		0.00124	0.00548	1	10/14/2019 21:30	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00559	0.0274	1	10/14/2019 21:30	WG1362682
1,2-Dibromoethane	U		0.000575	0.00274	1	10/14/2019 21:30	WG1362682
Dibromomethane	U		0.00110	0.00548	1	10/14/2019 21:30	WG1362682
1,2-Dichlorobenzene	U		0.00159	0.00548	1	10/14/2019 21:30	WG1362682
1,3-Dichlorobenzene	U		0.00186	0.00548	1	10/14/2019 21:30	WG1362682
1,4-Dichlorobenzene	U		0.00216	0.00548	1	10/14/2019 21:30	WG1362682
Dichlorodifluoromethane	U		0.000896	0.00274	1	10/14/2019 21:30	WG1362682
1,1-Dichloroethane	U		0.000630	0.00274	1	10/14/2019 21:30	WG1362682
1,2-Dichloroethane	U		0.000520	0.00274	1	10/14/2019 21:30	WG1362682
1,1-Dichloroethene	U		0.000548	0.00274	1	10/14/2019 21:30	WG1362682
cis-1,2-Dichloroethene	U		0.000756	0.00274	1	10/14/2019 21:30	WG1362682
trans-1,2-Dichloroethene	U		0.00157	0.00548	1	10/14/2019 21:30	WG1362682
1,2-Dichloropropane	U		0.00139	0.00548	1	10/14/2019 21:30	WG1362682
1,1-Dichloropropene	U		0.000767	0.00274	1	10/14/2019 21:30	WG1362682
1,3-Dichloropropane	U		0.00192	0.00548	1	10/14/2019 21:30	WG1362682
cis-1,3-Dichloropropene	U		0.000743	0.00274	1	10/14/2019 21:30	WG1362682
trans-1,3-Dichloropropene	U		0.00168	0.00548	1	10/14/2019 21:30	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00153	0.00548	1	10/14/2019 21:30	WG1362682
2,2-Dichloropropane	U		0.000869	0.00274	1	10/14/2019 21:30	WG1362682
Di-isopropyl ether	U		0.000383	0.00110	1	10/14/2019 21:30	WG1362682
Ethylbenzene	U		0.000580	0.00274	1	10/14/2019 21:30	WG1362682
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	10/14/2019 21:30	WG1362682
2-Hexanone	U		0.0110	0.0274	1	10/14/2019 21:30	WG1362682
n-Hexane	U		0.00116	0.00548	1	10/14/2019 21:30	WG1362682
Iodomethane	U		0.00663	0.0137	1	10/14/2019 21:30	WG1362682
Isopropylbenzene	U		0.000945	0.00274	1	10/14/2019 21:30	WG1362682
p-Isopropyltoluene	U		0.00255	0.00548	1	10/14/2019 21:30	WG1362682
2-Butanone (MEK)	0.0196	U B J J0	0.0137	0.0274	1	10/14/2019 21:30	WG1362682
Methylene Chloride	U		0.00727	0.0274	1	10/14/2019 21:30	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	10/14/2019 21:30	WG1362682

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00110	1	10/14/2019 21:30	WG1362682
Naphthalene	U		0.00342	0.0137	1	10/14/2019 21:30	WG1362682
n-Propylbenzene	U		0.00129	0.00548	1	10/14/2019 21:30	WG1362682
Styrene	U		0.00299	0.0137	1	10/14/2019 21:30	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000548	0.00274	1	10/14/2019 21:30	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000427	0.00274	1	10/14/2019 21:30	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000739	0.00274	1	10/14/2019 21:30	WG1362682
Tetrachloroethene	U		0.000767	0.00274	1	10/14/2019 21:30	WG1362682
Toluene	0.00264 J	J	0.00137	0.00548	1	10/14/2019 21:30	WG1362682
1,2,3-Trichlorobenzene	U		0.000685	0.00274	1	10/14/2019 21:30	WG1362682
1,2,4-Trichlorobenzene	U		0.00528	0.0137	1	10/14/2019 21:30	WG1362682
1,1,1-Trichloroethane	U		0.000301	0.00274	1	10/14/2019 21:30	WG1362682
1,1,2-Trichloroethane	U		0.000967	0.00274	1	10/14/2019 21:30	WG1362682
Trichloroethene	U		0.000438	0.00110	1	10/14/2019 21:30	WG1362682
Trichlorofluoromethane	U		0.000548	0.00274	1	10/14/2019 21:30	WG1362682
1,2,3-Trichloropropane	U		0.00559	0.0137	1	10/14/2019 21:30	WG1362682
1,2,4-Trimethylbenzene	U		0.00127	0.00548	1	10/14/2019 21:30	WG1362682
1,2,3-Trimethylbenzene	U		0.00126	0.00548	1	10/14/2019 21:30	WG1362682
1,3,5-Trimethylbenzene	U		0.00118	0.00548	1	10/14/2019 21:30	WG1362682
Vinyl acetate	U		0.00386	0.0137	1	10/14/2019 21:30	WG1362682
Vinyl chloride	U		0.000748	0.00274	1	10/14/2019 21:30	WG1362682
Xylenes, Total	U		0.00524	0.00712	1	10/14/2019 21:30	WG1362682
(S) Toluene-d8	*105*			*75.0-131*		*10/14/2019 21:30*	WG1362682
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/14/2019 21:30*	WG1362682
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/14/2019 21:30*	WG1362682

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.4		1	10/12/2019 12:50	WG1361906

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0164	0.0300	1	10/14/2019 21:51	WG1362682
Acrylonitrile	U		0.00228	0.0150	1	10/14/2019 21:51	WG1362682
Benzene	U		0.000480	0.00120	1	10/14/2019 21:51	WG1362682
Bromobenzene	U		0.00126	0.0150	1	10/14/2019 21:51	WG1362682
Bromodichloromethane	U		0.000945	0.00300	1	10/14/2019 21:51	WG1362682
Bromochloromethane	U		0.00135	0.00599	1	10/14/2019 21:51	WG1362682
Bromoform	U		0.00717	0.0300	1	10/14/2019 21:51	WG1362682
Bromomethane	U		0.00444	0.0150	1	10/14/2019 21:51	WG1362682
n-Butylbenzene	U		0.00460	0.0150	1	10/14/2019 21:51	WG1362682
sec-Butylbenzene	U		0.00303	0.0150	1	10/14/2019 21:51	WG1362682
tert-Butylbenzene	U		0.00186	0.00599	1	10/14/2019 21:51	WG1362682
Carbon disulfide	U		0.00487	0.0150	1	10/14/2019 21:51	WG1362682
Carbon tetrachloride	U		0.00129	0.00599	1	10/14/2019 21:51	WG1362682
Chlorobenzene	U		0.000687	0.00300	1	10/14/2019 21:51	WG1362682
Chlorodibromomethane	U		0.000540	0.00300	1	10/14/2019 21:51	WG1362682
Chloroethane	U		0.00129	0.00599	1	10/14/2019 21:51	WG1362682
Chloroform	0.000587 U	B J	0.000498	0.00300	1	10/14/2019 21:51	WG1362682
Chloromethane	U		0.00167	0.0150	1	10/14/2019 21:51	WG1362682
2-Chlorotoluene	U		0.00110	0.00300	1	10/14/2019 21:51	WG1362682
4-Chlorotoluene	U		0.00135	0.00599	1	10/14/2019 21:51	WG1362682
1,2-Dibromo-3-Chloropropane	U		0.00611	0.0300	1	10/14/2019 21:51	WG1362682
1,2-Dibromoethane	U		0.000629	0.00300	1	10/14/2019 21:51	WG1362682
Dibromomethane	U		0.00120	0.00599	1	10/14/2019 21:51	WG1362682
1,2-Dichlorobenzene	U		0.00174	0.00599	1	10/14/2019 21:51	WG1362682
1,3-Dichlorobenzene	U		0.00204	0.00599	1	10/14/2019 21:51	WG1362682
1,4-Dichlorobenzene	U		0.00236	0.00599	1	10/14/2019 21:51	WG1362682
Dichlorodifluoromethane	U		0.000981	0.00300	1	10/14/2019 21:51	WG1362682
1,1-Dichloroethane	U		0.000689	0.00300	1	10/14/2019 21:51	WG1362682
1,2-Dichloroethane	U		0.000570	0.00300	1	10/14/2019 21:51	WG1362682
1,1-Dichloroethene	U		0.000599	0.00300	1	10/14/2019 21:51	WG1362682
cis-1,2-Dichloroethene	U		0.000827	0.00300	1	10/14/2019 21:51	WG1362682
trans-1,2-Dichloroethene	U		0.00171	0.00599	1	10/14/2019 21:51	WG1362682
1,2-Dichloropropane	U		0.00152	0.00599	1	10/14/2019 21:51	WG1362682
1,1-Dichloropropene	U		0.000839	0.00300	1	10/14/2019 21:51	WG1362682
1,3-Dichloropropane	U		0.00210	0.00599	1	10/14/2019 21:51	WG1362682
cis-1,3-Dichloropropene	U		0.000813	0.00300	1	10/14/2019 21:51	WG1362682
trans-1,3-Dichloropropene	U		0.00183	0.00599	1	10/14/2019 21:51	WG1362682
trans-1,4-Dichloro-2-butene	U		0.00168	0.00599	1	10/14/2019 21:51	WG1362682
2,2-Dichloropropane	U		0.000951	0.00300	1	10/14/2019 21:51	WG1362682
Di-isopropyl ether	U		0.000420	0.00120	1	10/14/2019 21:51	WG1362682
Ethylbenzene	U		0.000635	0.00300	1	10/14/2019 21:51	WG1362682
Hexachloro-1,3-butadiene	U		0.0152	0.0300	1	10/14/2019 21:51	WG1362682
2-Hexanone	U		0.0120	0.0300	1	10/14/2019 21:51	WG1362682
n-Hexane	U		0.00127	0.00599	1	10/14/2019 21:51	WG1362682
Iodomethane	U		0.00725	0.0150	1	10/14/2019 21:51	WG1362682
Isopropylbenzene	U		0.00103	0.00300	1	10/14/2019 21:51	WG1362682
p-Isopropyltoluene	U		0.00279	0.00599	1	10/14/2019 21:51	WG1362682
2-Butanone (MEK)	0.0287 U	B J J0	0.0150	0.0300	1	10/14/2019 21:51	WG1362682
Methylene Chloride	U		0.00796	0.0300	1	10/14/2019 21:51	WG1362682
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0300	1	10/14/2019 21:51	WG1362682

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000354	0.00120	1	10/14/2019 21:51	WG1362682
Naphthalene	U		0.00374	0.0150	1	10/14/2019 21:51	WG1362682
n-Propylbenzene	U		0.00141	0.00599	1	10/14/2019 21:51	WG1362682
Styrene	U		0.00327	0.0150	1	10/14/2019 21:51	WG1362682
1,1,1,2-Tetrachloroethane	U		0.000599	0.00300	1	10/14/2019 21:51	WG1362682
1,1,2,2-Tetrachloroethane	U		0.000468	0.00300	1	10/14/2019 21:51	WG1362682
1,1,2-Trichlorotrifluoroethane	U		0.000809	0.00300	1	10/14/2019 21:51	WG1362682
Tetrachloroethene	U		0.000839	0.00300	1	10/14/2019 21:51	WG1362682
Toluene	0.00223 J	J	0.00150	0.00599	1	10/14/2019 21:51	WG1362682
1,2,3-Trichlorobenzene	U		0.000749	0.00300	1	10/14/2019 21:51	WG1362682
1,2,4-Trichlorobenzene	U		0.00578	0.0150	1	10/14/2019 21:51	WG1362682
1,1,1-Trichloroethane	U		0.000330	0.00300	1	10/14/2019 21:51	WG1362682
1,1,2-Trichloroethane	U		0.00106	0.00300	1	10/14/2019 21:51	WG1362682
Trichloroethene	U		0.000480	0.00120	1	10/14/2019 21:51	WG1362682
Trichlorofluoromethane	U		0.000599	0.00300	1	10/14/2019 21:51	WG1362682
1,2,3-Trichloropropane	U		0.00611	0.0150	1	10/14/2019 21:51	WG1362682
1,2,4-Trimethylbenzene	U		0.00139	0.00599	1	10/14/2019 21:51	WG1362682
1,2,3-Trimethylbenzene	U		0.00138	0.00599	1	10/14/2019 21:51	WG1362682
1,3,5-Trimethylbenzene	U		0.00129	0.00599	1	10/14/2019 21:51	WG1362682
Vinyl acetate	U		0.00422	0.0150	1	10/14/2019 21:51	WG1362682
Vinyl chloride	U		0.000819	0.00300	1	10/14/2019 21:51	WG1362682
Xylenes, Total	U		0.00573	0.00779	1	10/14/2019 21:51	WG1362682
(S) Toluene-d8	*103*			*75.0-131*		*10/14/2019 21:51*	WG1362682
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/14/2019 21:51*	WG1362682
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/14/2019 21:51*	WG1362682

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.4		1	10/12/2019 12:37	WG1361907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U UJ	J0	0.0162	0.0296	1	10/14/2019 21:23	WG1362726
Acrylonitrile	U		0.00225	0.0148	1	10/14/2019 21:23	WG1362726
Benzene	U		0.000474	0.00118	1	10/14/2019 21:23	WG1362726
Bromobenzene	U		0.00124	0.0148	1	10/14/2019 21:23	WG1362726
Bromodichloromethane	U		0.000934	0.00296	1	10/14/2019 21:23	WG1362726
Bromochloromethane	U		0.00134	0.00592	1	10/14/2019 21:23	WG1362726
Bromoform	U		0.00709	0.0296	1	10/14/2019 21:23	WG1362726
Bromomethane	U		0.00438	0.0148	1	10/14/2019 21:23	WG1362726
n-Butylbenzene	U		0.00455	0.0148	1	10/14/2019 21:23	WG1362726
sec-Butylbenzene	U		0.00300	0.0148	1	10/14/2019 21:23	WG1362726
tert-Butylbenzene	U		0.00184	0.00592	1	10/14/2019 21:23	WG1362726
Carbon disulfide	U		0.00481	0.0148	1	10/14/2019 21:23	WG1362726
Carbon tetrachloride	U UJ	J0	0.00128	0.00592	1	10/14/2019 21:23	WG1362726
Chlorobenzene	U		0.000679	0.00296	1	10/14/2019 21:23	WG1362726
Chlorodibromomethane	U		0.000533	0.00296	1	10/14/2019 21:23	WG1362726
Chloroethane	U		0.00128	0.00592	1	10/14/2019 21:23	WG1362726
Chloroform	U		0.000492	0.00296	1	10/14/2019 21:23	WG1362726
Chloromethane	U		0.00165	0.0148	1	10/14/2019 21:23	WG1362726
2-Chlorotoluene	U		0.00109	0.00296	1	10/14/2019 21:23	WG1362726
4-Chlorotoluene	U		0.00134	0.00592	1	10/14/2019 21:23	WG1362726
1,2-Dibromo-3-Chloropropane	U		0.00604	0.0296	1	10/14/2019 21:23	WG1362726
1,2-Dibromoethane	U		0.000622	0.00296	1	10/14/2019 21:23	WG1362726
Dibromomethane	U		0.00118	0.00592	1	10/14/2019 21:23	WG1362726
1,2-Dichlorobenzene	U		0.00172	0.00592	1	10/14/2019 21:23	WG1362726
1,3-Dichlorobenzene	U		0.00201	0.00592	1	10/14/2019 21:23	WG1362726
1,4-Dichlorobenzene	U		0.00233	0.00592	1	10/14/2019 21:23	WG1362726
Dichlorodifluoromethane	U		0.000969	0.00296	1	10/14/2019 21:23	WG1362726
1,1-Dichloroethane	U		0.000681	0.00296	1	10/14/2019 21:23	WG1362726
1,2-Dichloroethane	U		0.000563	0.00296	1	10/14/2019 21:23	WG1362726
1,1-Dichloroethene	U		0.000592	0.00296	1	10/14/2019 21:23	WG1362726
cis-1,2-Dichloroethene	U		0.000818	0.00296	1	10/14/2019 21:23	WG1362726
trans-1,2-Dichloroethene	U		0.00169	0.00592	1	10/14/2019 21:23	WG1362726
1,2-Dichloropropane	U		0.00150	0.00592	1	10/14/2019 21:23	WG1362726
1,1-Dichloropropene	U		0.000829	0.00296	1	10/14/2019 21:23	WG1362726
1,3-Dichloropropane	U		0.00207	0.00592	1	10/14/2019 21:23	WG1362726
cis-1,3-Dichloropropene	U		0.000803	0.00296	1	10/14/2019 21:23	WG1362726
trans-1,3-Dichloropropene	U		0.00181	0.00592	1	10/14/2019 21:23	WG1362726
trans-1,4-Dichloro-2-butene	U		0.00166	0.00592	1	10/14/2019 21:23	WG1362726
2,2-Dichloropropane	U		0.000940	0.00296	1	10/14/2019 21:23	WG1362726
Di-isopropyl ether	U		0.000415	0.00118	1	10/14/2019 21:23	WG1362726
Ethylbenzene	U		0.000628	0.00296	1	10/14/2019 21:23	WG1362726
Hexachloro-1,3-butadiene	U		0.0150	0.0296	1	10/14/2019 21:23	WG1362726
2-Hexanone	U		0.0118	0.0296	1	10/14/2019 21:23	WG1362726
n-Hexane	U		0.00126	0.00592	1	10/14/2019 21:23	WG1362726
Iodomethane	U UJ	J3 J4	0.00717	0.0148	1	10/14/2019 21:23	WG1362726
Isopropylbenzene	U		0.00102	0.00296	1	10/14/2019 21:23	WG1362726
p-Isopropyltoluene	U		0.00276	0.00592	1	10/14/2019 21:23	WG1362726
2-Butanone (MEK)	U		0.0148	0.0296	1	10/14/2019 21:23	WG1362726
Methylene Chloride	U		0.00787	0.0296	1	10/14/2019 21:23	WG1362726
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0296	1	10/14/2019 21:23	WG1362726

JC 11/11/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000350	0.00118	1	10/14/2019 21:23	WG1362726
Naphthalene	U			0.00370	0.0148	1	10/14/2019 21:23	WG1362726
n-Propylbenzene	U			0.00140	0.00592	1	10/14/2019 21:23	WG1362726
Styrene	U			0.00323	0.0148	1	10/14/2019 21:23	WG1362726
1,1,1,2-Tetrachloroethane	U			0.000592	0.00296	1	10/14/2019 21:23	WG1362726
1,1,2,2-Tetrachloroethane	U			0.000462	0.00296	1	10/14/2019 21:23	WG1362726
1,1,2-Trichlorotrifluoroethane	U			0.000800	0.00296	1	10/14/2019 21:23	WG1362726
Tetrachloroethene	U			0.000829	0.00296	1	10/14/2019 21:23	WG1362726
Toluene	0.00263	J	J	0.00148	0.00592	1	10/14/2019 21:23	WG1362726
1,2,3-Trichlorobenzene	U			0.000741	0.00296	1	10/14/2019 21:23	WG1362726
1,2,4-Trichlorobenzene	U			0.00571	0.0148	1	10/14/2019 21:23	WG1362726
1,1,1-Trichloroethane	U			0.000326	0.00296	1	10/14/2019 21:23	WG1362726
1,1,2-Trichloroethane	U			0.00105	0.00296	1	10/14/2019 21:23	WG1362726
Trichloroethene	U			0.000474	0.00118	1	10/14/2019 21:23	WG1362726
Trichlorofluoromethane	U			0.000592	0.00296	1	10/14/2019 21:23	WG1362726
1,2,3-Trichloropropane	U			0.00604	0.0148	1	10/14/2019 21:23	WG1362726
1,2,4-Trimethylbenzene	U			0.00137	0.00592	1	10/14/2019 21:23	WG1362726
1,2,3-Trimethylbenzene	U			0.00136	0.00592	1	10/14/2019 21:23	WG1362726
1,3,5-Trimethylbenzene	U			0.00128	0.00592	1	10/14/2019 21:23	WG1362726
Vinyl acetate	U	UJ	J0	0.00417	0.0148	1	10/14/2019 21:23	WG1362726
Vinyl chloride	U			0.000809	0.00296	1	10/14/2019 21:23	WG1362726
Xylenes, Total	U			0.00566	0.00770	1	10/14/2019 21:23	WG1362726
(S) Toluene-d8	*106*				*75.0-131*		*10/14/2019 21:23*	WG1362726
(S) 4-Bromofluorobenzene	*99.2*				*67.0-138*		*10/14/2019 21:23*	WG1362726
(S) 1,2-Dichloroethane-d4	*92.6*				*70.0-130*		*10/14/2019 21:23*	WG1362726

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.8		1	10/12/2019 12:37	WG1361907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U UJ	J0	0.0161	0.0295	1	10/14/2019 21:45	WG1362726	
Acrylonitrile	U		0.00224	0.0147	1	10/14/2019 21:45	WG1362726	
Benzene	U		0.000471	0.00118	1	10/14/2019 21:45	WG1362726	
Bromobenzene	U		0.00124	0.0147	1	10/14/2019 21:45	WG1362726	
Bromodichloromethane	U		0.000929	0.00295	1	10/14/2019 21:45	WG1362726	
Bromochloromethane	U		0.00133	0.00589	1	10/14/2019 21:45	WG1362726	
Bromoform	U		0.00705	0.0295	1	10/14/2019 21:45	WG1362726	
Bromomethane	U		0.00436	0.0147	1	10/14/2019 21:45	WG1362726	
n-Butylbenzene	U		0.00453	0.0147	1	10/14/2019 21:45	WG1362726	
sec-Butylbenzene	U		0.00298	0.0147	1	10/14/2019 21:45	WG1362726	
tert-Butylbenzene	U		0.00183	0.00589	1	10/14/2019 21:45	WG1362726	
Carbon disulfide	U		0.00479	0.0147	1	10/14/2019 21:45	WG1362726	
Carbon tetrachloride	U UJ	J0	0.00127	0.00589	1	10/14/2019 21:45	WG1362726	
Chlorobenzene	U		0.000675	0.00295	1	10/14/2019 21:45	WG1362726	
Chlorodibromomethane	U		0.000530	0.00295	1	10/14/2019 21:45	WG1362726	
Chloroethane	U		0.00127	0.00589	1	10/14/2019 21:45	WG1362726	
Chloroform	0.000500 J	J	0.000489	0.00295	1	10/14/2019 21:45	WG1362726	
Chloromethane	U		0.00164	0.0147	1	10/14/2019 21:45	WG1362726	
2-Chlorotoluene	U		0.00108	0.00295	1	10/14/2019 21:45	WG1362726	
4-Chlorotoluene	U		0.00133	0.00589	1	10/14/2019 21:45	WG1362726	
1,2-Dibromo-3-Chloropropane	U		0.00601	0.0295	1	10/14/2019 21:45	WG1362726	
1,2-Dibromoethane	U		0.000619	0.00295	1	10/14/2019 21:45	WG1362726	
Dibromomethane	U		0.00118	0.00589	1	10/14/2019 21:45	WG1362726	
1,2-Dichlorobenzene	U		0.00171	0.00589	1	10/14/2019 21:45	WG1362726	
1,3-Dichlorobenzene	U		0.00200	0.00589	1	10/14/2019 21:45	WG1362726	
1,4-Dichlorobenzene	U		0.00232	0.00589	1	10/14/2019 21:45	WG1362726	
Dichlorodifluoromethane	U		0.000964	0.00295	1	10/14/2019 21:45	WG1362726	
1,1-Dichloroethane	U		0.000678	0.00295	1	10/14/2019 21:45	WG1362726	
1,2-Dichloroethane	U		0.000560	0.00295	1	10/14/2019 21:45	WG1362726	
1,1-Dichloroethene	U		0.000589	0.00295	1	10/14/2019 21:45	WG1362726	
cis-1,2-Dichloroethene	U		0.000813	0.00295	1	10/14/2019 21:45	WG1362726	
trans-1,2-Dichloroethene	U		0.00169	0.00589	1	10/14/2019 21:45	WG1362726	
1,2-Dichloropropane	U		0.00150	0.00589	1	10/14/2019 21:45	WG1362726	
1,1-Dichloropropene	U		0.000825	0.00295	1	10/14/2019 21:45	WG1362726	
1,3-Dichloropropane	U		0.00206	0.00589	1	10/14/2019 21:45	WG1362726	
cis-1,3-Dichloropropene	U		0.000799	0.00295	1	10/14/2019 21:45	WG1362726	
trans-1,3-Dichloropropene	U		0.00180	0.00589	1	10/14/2019 21:45	WG1362726	
trans-1,4-Dichloro-2-butene	U		0.00165	0.00589	1	10/14/2019 21:45	WG1362726	
2,2-Dichloropropane	U		0.000935	0.00295	1	10/14/2019 21:45	WG1362726	
Di-isopropyl ether	U		0.000413	0.00118	1	10/14/2019 21:45	WG1362726	
Ethylbenzene	U		0.000625	0.00295	1	10/14/2019 21:45	WG1362726	
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	10/14/2019 21:45	WG1362726	
2-Hexanone	U		0.0118	0.0295	1	10/14/2019 21:45	WG1362726	
n-Hexane	U		0.00125	0.00589	1	10/14/2019 21:45	WG1362726	
Iodomethane	U UJ	J3 J4	0.00713	0.0147	1	10/14/2019 21:45	WG1362726	
Isopropylbenzene	U		0.00102	0.00295	1	10/14/2019 21:45	WG1362726	
p-Isopropyltoluene	U		0.00275	0.00589	1	10/14/2019 21:45	WG1362726	
2-Butanone (MEK)	U		0.0147	0.0295	1	10/14/2019 21:45	WG1362726	JC 11/11/19
Methylene Chloride	U		0.00783	0.0295	1	10/14/2019 21:45	WG1362726	
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	10/14/2019 21:45	WG1362726	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000348	0.00118	1	10/14/2019 21:45	WG1362726
Naphthalene	U			0.00368	0.0147	1	10/14/2019 21:45	WG1362726
n-Propylbenzene	U			0.00139	0.00589	1	10/14/2019 21:45	WG1362726
Styrene	U			0.00322	0.0147	1	10/14/2019 21:45	WG1362726
1,1,1,2-Tetrachloroethane	U			0.000589	0.00295	1	10/14/2019 21:45	WG1362726
1,1,2,2-Tetrachloroethane	U			0.000460	0.00295	1	10/14/2019 21:45	WG1362726
1,1,2-Trichlorotrifluoroethane	U			0.000796	0.00295	1	10/14/2019 21:45	WG1362726
Tetrachloroethene	U			0.000825	0.00295	1	10/14/2019 21:45	WG1362726
Toluene	0.00206	J	J	0.00147	0.00589	1	10/14/2019 21:45	WG1362726
1,2,3-Trichlorobenzene	U			0.000737	0.00295	1	10/14/2019 21:45	WG1362726
1,2,4-Trichlorobenzene	U			0.00568	0.0147	1	10/14/2019 21:45	WG1362726
1,1,1-Trichloroethane	U			0.000324	0.00295	1	10/14/2019 21:45	WG1362726
1,1,2-Trichloroethane	U			0.00104	0.00295	1	10/14/2019 21:45	WG1362726
Trichloroethene	U			0.000471	0.00118	1	10/14/2019 21:45	WG1362726
Trichlorofluoromethane	U			0.000589	0.00295	1	10/14/2019 21:45	WG1362726
1,2,3-Trichloropropane	U			0.00601	0.0147	1	10/14/2019 21:45	WG1362726
1,2,4-Trimethylbenzene	U			0.00137	0.00589	1	10/14/2019 21:45	WG1362726
1,2,3-Trimethylbenzene	U			0.00136	0.00589	1	10/14/2019 21:45	WG1362726
1,3,5-Trimethylbenzene	U			0.00127	0.00589	1	10/14/2019 21:45	WG1362726
Vinyl acetate	U	UJ	J0	0.00415	0.0147	1	10/14/2019 21:45	WG1362726
Vinyl chloride	U			0.000805	0.00295	1	10/14/2019 21:45	WG1362726
Xylenes, Total	U			0.00563	0.00766	1	10/14/2019 21:45	WG1362726
(S) Toluene-d8	*106*				*75.0-131*		*10/14/2019 21:45*	WG1362726
(S) 4-Bromofluorobenzene	*96.1*				*67.0-138*		*10/14/2019 21:45*	WG1362726
(S) 1,2-Dichloroethane-d4	*93.7*				*70.0-130*		*10/14/2019 21:45*	WG1362726

JC 11/11/19

MW-304-105
Collected date/time: 10/02/19 10:45

SAMPLE RESULTS - 20

L1147020

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.5		1	10/12/2019 12:37	WG1361907

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U UJ	J0	0.0160	0.0293	1	10/14/2019 22:06	WG1362726
Acrylonitrile	U		0.00222	0.0146	1	10/14/2019 22:06	WG1362726
Benzene	U		0.000468	0.00117	1	10/14/2019 22:06	WG1362726
Bromobenzene	U		0.00123	0.0146	1	10/14/2019 22:06	WG1362726
Bromodichloromethane	U		0.000922	0.00293	1	10/14/2019 22:06	WG1362726
Bromochloromethane	U		0.00132	0.00585	1	10/14/2019 22:06	WG1362726
Bromoform	U		0.00700	0.0293	1	10/14/2019 22:06	WG1362726
Bromomethane	U		0.00433	0.0146	1	10/14/2019 22:06	WG1362726
n-Butylbenzene	U		0.00449	0.0146	1	10/14/2019 22:06	WG1362726
sec-Butylbenzene	U		0.00296	0.0146	1	10/14/2019 22:06	WG1362726
tert-Butylbenzene	U		0.00181	0.00585	1	10/14/2019 22:06	WG1362726
Carbon disulfide	U		0.00475	0.0146	1	10/14/2019 22:06	WG1362726
Carbon tetrachloride	U UJ	J0	0.00126	0.00585	1	10/14/2019 22:06	WG1362726
Chlorobenzene	U		0.000671	0.00293	1	10/14/2019 22:06	WG1362726
Chlorodibromomethane	U		0.000527	0.00293	1	10/14/2019 22:06	WG1362726
Chloroethane	U		0.00126	0.00585	1	10/14/2019 22:06	WG1362726
Chloroform	U		0.000486	0.00293	1	10/14/2019 22:06	WG1362726
Chloromethane	U		0.00163	0.0146	1	10/14/2019 22:06	WG1362726
2-Chlorotoluene	U		0.00108	0.00293	1	10/14/2019 22:06	WG1362726
4-Chlorotoluene	U		0.00132	0.00585	1	10/14/2019 22:06	WG1362726
1,2-Dibromo-3-Chloropropane	U		0.00597	0.0293	1	10/14/2019 22:06	WG1362726
1,2-Dibromoethane	U		0.000614	0.00293	1	10/14/2019 22:06	WG1362726
Dibromomethane	U		0.00117	0.00585	1	10/14/2019 22:06	WG1362726
1,2-Dichlorobenzene	U		0.00170	0.00585	1	10/14/2019 22:06	WG1362726
1,3-Dichlorobenzene	U		0.00199	0.00585	1	10/14/2019 22:06	WG1362726
1,4-Dichlorobenzene	U		0.00231	0.00585	1	10/14/2019 22:06	WG1362726
Dichlorodifluoromethane	U		0.000957	0.00293	1	10/14/2019 22:06	WG1362726
1,1-Dichloroethane	U		0.000673	0.00293	1	10/14/2019 22:06	WG1362726
1,2-Dichloroethane	U		0.000556	0.00293	1	10/14/2019 22:06	WG1362726
1,1-Dichloroethene	U		0.000585	0.00293	1	10/14/2019 22:06	WG1362726
cis-1,2-Dichloroethene	U		0.000807	0.00293	1	10/14/2019 22:06	WG1362726
trans-1,2-Dichloroethene	U		0.00167	0.00585	1	10/14/2019 22:06	WG1362726
1,2-Dichloropropane	U		0.00149	0.00585	1	10/14/2019 22:06	WG1362726
1,1-Dichloropropene	U		0.000819	0.00293	1	10/14/2019 22:06	WG1362726
1,3-Dichloropropane	U		0.00205	0.00585	1	10/14/2019 22:06	WG1362726
cis-1,3-Dichloropropene	U		0.000793	0.00293	1	10/14/2019 22:06	WG1362726
trans-1,3-Dichloropropene	U		0.00179	0.00585	1	10/14/2019 22:06	WG1362726
trans-1,4-Dichloro-2-butene	U		0.00164	0.00585	1	10/14/2019 22:06	WG1362726
2,2-Dichloropropane	U		0.000928	0.00293	1	10/14/2019 22:06	WG1362726
Di-isopropyl ether	U		0.000410	0.00117	1	10/14/2019 22:06	WG1362726
Ethylbenzene	U		0.000620	0.00293	1	10/14/2019 22:06	WG1362726
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1	10/14/2019 22:06	WG1362726
2-Hexanone	U		0.0117	0.0293	1	10/14/2019 22:06	WG1362726
n-Hexane	U		0.00124	0.00585	1	10/14/2019 22:06	WG1362726
Iodomethane	U UJ	J3 J4	0.00708	0.0146	1	10/14/2019 22:06	WG1362726 JC 11/11/19
Isopropylbenzene	U		0.00101	0.00293	1	10/14/2019 22:06	WG1362726
p-Isopropyltoluene	U		0.00273	0.00585	1	10/14/2019 22:06	WG1362726
2-Butanone (MEK)	U		0.0146	0.0293	1	10/14/2019 22:06	WG1362726
Methylene Chloride	U		0.00777	0.0293	1	10/14/2019 22:06	WG1362726
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1	10/14/2019 22:06	WG1362726

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000345	0.00117	1	10/14/2019 22:06	WG1362726
Naphthalene	U			0.00365	0.0146	1	10/14/2019 22:06	WG1362726
n-Propylbenzene	U			0.00138	0.00585	1	10/14/2019 22:06	WG1362726
Styrene	U			0.00319	0.0146	1	10/14/2019 22:06	WG1362726
1,1,1,2-Tetrachloroethane	U			0.000585	0.00293	1	10/14/2019 22:06	WG1362726
1,1,2,2-Tetrachloroethane	U			0.000456	0.00293	1	10/14/2019 22:06	WG1362726
1,1,2-Trichlorotrifluoroethane	U			0.000790	0.00293	1	10/14/2019 22:06	WG1362726
Tetrachloroethene	U			0.000819	0.00293	1	10/14/2019 22:06	WG1362726
Toluene	0.00166	J	J	0.00146	0.00585	1	10/14/2019 22:06	WG1362726
1,2,3-Trichlorobenzene	U			0.000731	0.00293	1	10/14/2019 22:06	WG1362726
1,2,4-Trichlorobenzene	U			0.00564	0.0146	1	10/14/2019 22:06	WG1362726
1,1,1-Trichloroethane	U			0.000322	0.00293	1	10/14/2019 22:06	WG1362726
1,1,2-Trichloroethane	U			0.00103	0.00293	1	10/14/2019 22:06	WG1362726
Trichloroethene	U			0.000468	0.00117	1	10/14/2019 22:06	WG1362726
Trichlorofluoromethane	U			0.000585	0.00293	1	10/14/2019 22:06	WG1362726
1,2,3-Trichloropropane	U			0.00597	0.0146	1	10/14/2019 22:06	WG1362726
1,2,4-Trimethylbenzene	U			0.00136	0.00585	1	10/14/2019 22:06	WG1362726
1,2,3-Trimethylbenzene	U			0.00135	0.00585	1	10/14/2019 22:06	WG1362726
1,3,5-Trimethylbenzene	U			0.00126	0.00585	1	10/14/2019 22:06	WG1362726
Vinyl acetate	U	UJ	J0	0.00412	0.0146	1	10/14/2019 22:06	WG1362726
Vinyl chloride	U			0.000799	0.00293	1	10/14/2019 22:06	WG1362726
Xylenes, Total	U			0.00559	0.00761	1	10/14/2019 22:06	WG1362726
(S) Toluene-d8	*106*				*75.0-131*		*10/14/2019 22:06*	WG1362726
(S) 4-Bromofluorobenzene	*97.1*				*67.0-138*		*10/14/2019 22:06*	WG1362726
(S) 1,2-Dichloroethane-d4	*94.3*				*70.0-130*		*10/14/2019 22:06*	WG1362726

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.1		1	10/12/2019 12:37	WG1361907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0173	0.0316	1	10/15/2019 15:38	WG1363157
Acrylonitrile	U		0.00240	0.0158	1	10/15/2019 15:38	WG1363157
Benzene	U		0.000506	0.00126	1	10/15/2019 15:38	WG1363157
Bromobenzene	U		0.00133	0.0158	1	10/15/2019 15:38	WG1363157
Bromodichloromethane	U		0.000996	0.00316	1	10/15/2019 15:38	WG1363157
Bromochloromethane	U		0.00143	0.00632	1	10/15/2019 15:38	WG1363157
Bromoform	U		0.00756	0.0316	1	10/15/2019 15:38	WG1363157
Bromomethane	U		0.00468	0.0158	1	10/15/2019 15:38	WG1363157
n-Butylbenzene	U		0.00486	0.0158	1	10/15/2019 15:38	WG1363157
sec-Butylbenzene	U		0.00320	0.0158	1	10/15/2019 15:38	WG1363157
tert-Butylbenzene	U		0.00196	0.00632	1	10/15/2019 15:38	WG1363157
Carbon disulfide	U		0.00513	0.0158	1	10/15/2019 15:38	WG1363157
Carbon tetrachloride	U		0.00137	0.00632	1	10/15/2019 15:38	WG1363157
Chlorobenzene	U		0.000725	0.00316	1	10/15/2019 15:38	WG1363157
Chlorodibromomethane	U		0.000569	0.00316	1	10/15/2019 15:38	WG1363157
Chloroethane	U		0.00137	0.00632	1	10/15/2019 15:38	WG1363157
Chloroform	U		0.000525	0.00316	1	10/15/2019 15:38	WG1363157
Chloromethane	U	J4	0.00176	0.0158	1	10/15/2019 15:38	WG1363157
2-Chlorotoluene	U		0.00116	0.00316	1	10/15/2019 15:38	WG1363157
4-Chlorotoluene	U		0.00143	0.00632	1	10/15/2019 15:38	WG1363157
1,2-Dibromo-3-Chloropropane	U		0.00645	0.0316	1	10/15/2019 15:38	WG1363157
1,2-Dibromoethane	U		0.000664	0.00316	1	10/15/2019 15:38	WG1363157
Dibromomethane	U		0.00126	0.00632	1	10/15/2019 15:38	WG1363157
1,2-Dichlorobenzene	U		0.00183	0.00632	1	10/15/2019 15:38	WG1363157
1,3-Dichlorobenzene	U		0.00215	0.00632	1	10/15/2019 15:38	WG1363157
1,4-Dichlorobenzene	U		0.00249	0.00632	1	10/15/2019 15:38	WG1363157
Dichlorodifluoromethane	U		0.00103	0.00316	1	10/15/2019 15:38	WG1363157
1,1-Dichloroethane	U		0.000727	0.00316	1	10/15/2019 15:38	WG1363157
1,2-Dichloroethane	U		0.000601	0.00316	1	10/15/2019 15:38	WG1363157
1,1-Dichloroethene	U		0.000632	0.00316	1	10/15/2019 15:38	WG1363157
cis-1,2-Dichloroethene	U		0.000872	0.00316	1	10/15/2019 15:38	WG1363157
trans-1,2-Dichloroethene	U		0.00181	0.00632	1	10/15/2019 15:38	WG1363157
1,2-Dichloropropane	U		0.00161	0.00632	1	10/15/2019 15:38	WG1363157
1,1-Dichloropropene	U		0.000885	0.00316	1	10/15/2019 15:38	WG1363157
1,3-Dichloropropane	U		0.00221	0.00632	1	10/15/2019 15:38	WG1363157
cis-1,3-Dichloropropene	U		0.000857	0.00316	1	10/15/2019 15:38	WG1363157
trans-1,3-Dichloropropene	U		0.00193	0.00632	1	10/15/2019 15:38	WG1363157
trans-1,4-Dichloro-2-butene	U		0.00177	0.00632	1	10/15/2019 15:38	WG1363157
2,2-Dichloropropane	U	UJ J0	0.00100	0.00316	1	10/15/2019 15:38	WG1363157
Di-isopropyl ether	U		0.000443	0.00126	1	10/15/2019 15:38	WG1363157
Ethylbenzene	0.000699	J J	0.000670	0.00316	1	10/15/2019 15:38	WG1363157
Hexachloro-1,3-butadiene	U		0.0161	0.0316	1	10/15/2019 15:38	WG1363157
2-Hexanone	U		0.0126	0.0316	1	10/15/2019 15:38	WG1363157
n-Hexane	U		0.00134	0.00632	1	10/15/2019 15:38	WG1363157
Iodomethane	U		0.00765	0.0158	1	10/15/2019 15:38	WG1363157
Isopropylbenzene	U		0.00109	0.00316	1	10/15/2019 15:38	WG1363157
p-Isopropyltoluene	U		0.00295	0.00632	1	10/15/2019 15:38	WG1363157
2-Butanone (MEK)	0.0327	U B J0	0.0158	0.0316	1	10/15/2019 15:38	WG1363157
Methylene Chloride	U		0.00840	0.0316	1	10/15/2019 15:38	WG1363157
4-Methyl-2-pentanone (MIBK)	U		0.0126	0.0316	1	10/15/2019 15:38	WG1363157

JC 11/11/19

MW-304-110

Collected date/time: 10/02/19 11:00

SAMPLE RESULTS - 21

L1147020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000373	0.00126	1	10/15/2019 15:38	WG1363157
Naphthalene	U		0.00394	0.0158	1	10/15/2019 15:38	WG1363157
n-Propylbenzene	U		0.00149	0.00632	1	10/15/2019 15:38	WG1363157
Styrene	U		0.00345	0.0158	1	10/15/2019 15:38	WG1363157
1,1,1,2-Tetrachloroethane	U		0.000632	0.00316	1	10/15/2019 15:38	WG1363157
1,1,2,2-Tetrachloroethane	U		0.000493	0.00316	1	10/15/2019 15:38	WG1363157
1,1,2-Trichlorotrifluoroethane	U		0.000853	0.00316	1	10/15/2019 15:38	WG1363157
Tetrachloroethene	U		0.000885	0.00316	1	10/15/2019 15:38	WG1363157
Toluene	0.00321 J	J	0.00158	0.00632	1	10/15/2019 15:38	WG1363157
1,2,3-Trichlorobenzene	U		0.000790	0.00316	1	10/15/2019 15:38	WG1363157
1,2,4-Trichlorobenzene	U		0.00609	0.0158	1	10/15/2019 15:38	WG1363157
1,1,1-Trichloroethane	U		0.000348	0.00316	1	10/15/2019 15:38	WG1363157
1,1,2-Trichloroethane	U		0.00112	0.00316	1	10/15/2019 15:38	WG1363157
Trichloroethene	U		0.000506	0.00126	1	10/15/2019 15:38	WG1363157
Trichlorofluoromethane	U		0.000632	0.00316	1	10/15/2019 15:38	WG1363157
1,2,3-Trichloropropane	U		0.00645	0.0158	1	10/15/2019 15:38	WG1363157
1,2,4-Trimethylbenzene	U		0.00147	0.00632	1	10/15/2019 15:38	WG1363157
1,2,3-Trimethylbenzene	U		0.00145	0.00632	1	10/15/2019 15:38	WG1363157
1,3,5-Trimethylbenzene	U		0.00137	0.00632	1	10/15/2019 15:38	WG1363157
Vinyl acetate	U UJ	J0	0.00445	0.0158	1	10/15/2019 15:38	WG1363157
Vinyl chloride	U		0.000864	0.00316	1	10/15/2019 15:38	WG1363157
Xylenes, Total	U		0.00604	0.00822	1	10/15/2019 15:38	WG1363157
(S) Toluene-d8	*103*			*75.0-131*		*10/15/2019 15:38*	WG1363157
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/15/2019 15:38*	WG1363157
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/15/2019 15:38*	WG1363157

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-304-115

Collected date/time: 10/02/19 11:10

SAMPLE RESULTS - 22

L1147020

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.8		1	10/12/2019 12:37	WG1361907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U	UJ	J0	0.0160	0.0291	1	10/14/2019 23:01	WG1362726
Acrylonitrile	U			0.00221	0.0146	1	10/14/2019 23:01	WG1362726
Benzene	U			0.000466	0.00117	1	10/14/2019 23:01	WG1362726
Bromobenzene	U			0.00122	0.0146	1	10/14/2019 23:01	WG1362726
Bromodichloromethane	U			0.000918	0.00291	1	10/14/2019 23:01	WG1362726
Bromochloromethane	U			0.00132	0.00583	1	10/14/2019 23:01	WG1362726
Bromoform	U			0.00697	0.0291	1	10/14/2019 23:01	WG1362726
Bromomethane	U			0.00431	0.0146	1	10/14/2019 23:01	WG1362726
n-Butylbenzene	U			0.00447	0.0146	1	10/14/2019 23:01	WG1362726
sec-Butylbenzene	U			0.00295	0.0146	1	10/14/2019 23:01	WG1362726
tert-Butylbenzene	U			0.00181	0.00583	1	10/14/2019 23:01	WG1362726
Carbon disulfide	U			0.00473	0.0146	1	10/14/2019 23:01	WG1362726
Carbon tetrachloride	U	UJ	J0	0.00126	0.00583	1	10/14/2019 23:01	WG1362726
Chlorobenzene	U			0.000668	0.00291	1	10/14/2019 23:01	WG1362726
Chlorodibromomethane	U			0.000524	0.00291	1	10/14/2019 23:01	WG1362726
Chloroethane	U			0.00126	0.00583	1	10/14/2019 23:01	WG1362726
Chloroform	U			0.000484	0.00291	1	10/14/2019 23:01	WG1362726
Chloromethane	U			0.00162	0.0146	1	10/14/2019 23:01	WG1362726
2-Chlorotoluene	U			0.00107	0.00291	1	10/14/2019 23:01	WG1362726
4-Chlorotoluene	U			0.00132	0.00583	1	10/14/2019 23:01	WG1362726
1,2-Dibromo-3-Chloropropane	U			0.00594	0.0291	1	10/14/2019 23:01	WG1362726
1,2-Dibromoethane	U			0.000612	0.00291	1	10/14/2019 23:01	WG1362726
Dibromomethane	U			0.00117	0.00583	1	10/14/2019 23:01	WG1362726
1,2-Dichlorobenzene	U			0.00169	0.00583	1	10/14/2019 23:01	WG1362726
1,3-Dichlorobenzene	U			0.00198	0.00583	1	10/14/2019 23:01	WG1362726
1,4-Dichlorobenzene	U			0.00230	0.00583	1	10/14/2019 23:01	WG1362726
Dichlorodifluoromethane	U			0.000953	0.00291	1	10/14/2019 23:01	WG1362726
1,1-Dichloroethane	U			0.000670	0.00291	1	10/14/2019 23:01	WG1362726
1,2-Dichloroethane	U			0.000553	0.00291	1	10/14/2019 23:01	WG1362726
1,1-Dichloroethene	U			0.000583	0.00291	1	10/14/2019 23:01	WG1362726
cis-1,2-Dichloroethene	U			0.000804	0.00291	1	10/14/2019 23:01	WG1362726
trans-1,2-Dichloroethene	U			0.00167	0.00583	1	10/14/2019 23:01	WG1362726
1,2-Dichloropropane	U			0.00148	0.00583	1	10/14/2019 23:01	WG1362726
1,1-Dichloropropene	U			0.000816	0.00291	1	10/14/2019 23:01	WG1362726
1,3-Dichloropropane	U			0.00204	0.00583	1	10/14/2019 23:01	WG1362726
cis-1,3-Dichloropropene	U			0.000790	0.00291	1	10/14/2019 23:01	WG1362726
trans-1,3-Dichloropropene	U			0.00178	0.00583	1	10/14/2019 23:01	WG1362726
trans-1,4-Dichloro-2-butene	U			0.00163	0.00583	1	10/14/2019 23:01	WG1362726
2,2-Dichloropropane	U			0.000924	0.00291	1	10/14/2019 23:01	WG1362726
Di-isopropyl ether	U			0.000408	0.00117	1	10/14/2019 23:01	WG1362726
Ethylbenzene	U			0.000617	0.00291	1	10/14/2019 23:01	WG1362726
Hexachloro-1,3-butadiene	U			0.0148	0.0291	1	10/14/2019 23:01	WG1362726
2-Hexanone	U			0.0117	0.0291	1	10/14/2019 23:01	WG1362726
n-Hexane	U			0.00123	0.00583	1	10/14/2019 23:01	WG1362726
Iodomethane	U	UJ	J3 J4	0.00705	0.0146	1	10/14/2019 23:01	WG1362726
Isopropylbenzene	U			0.00101	0.00291	1	10/14/2019 23:01	WG1362726
p-Isopropyltoluene	U			0.00271	0.00583	1	10/14/2019 23:01	WG1362726
2-Butanone (MEK)	U			0.0146	0.0291	1	10/14/2019 23:01	WG1362726
Methylene Chloride	U			0.00774	0.0291	1	10/14/2019 23:01	WG1362726
4-Methyl-2-pentanone (MIBK)	U			0.0117	0.0291	1	10/14/2019 23:01	WG1362726

JC 11/11/19

MW-304-115

Collected date/time: 10/02/19 11:10

SAMPLE RESULTS - 22

L1147020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000344	0.00117	1	10/14/2019 23:01	WG1362726
Naphthalene	U			0.00364	0.0146	1	10/14/2019 23:01	WG1362726
n-Propylbenzene	U			0.00137	0.00583	1	10/14/2019 23:01	WG1362726
Styrene	U			0.00318	0.0146	1	10/14/2019 23:01	WG1362726
1,1,1,2-Tetrachloroethane	U			0.000583	0.00291	1	10/14/2019 23:01	WG1362726
1,1,2,2-Tetrachloroethane	U			0.000454	0.00291	1	10/14/2019 23:01	WG1362726
1,1,2-Trichlorotrifluoroethane	U			0.000786	0.00291	1	10/14/2019 23:01	WG1362726
Tetrachloroethene	U			0.000816	0.00291	1	10/14/2019 23:01	WG1362726
Toluene	0.00223	J	J	0.00146	0.00583	1	10/14/2019 23:01	WG1362726
1,2,3-Trichlorobenzene	U			0.000728	0.00291	1	10/14/2019 23:01	WG1362726
1,2,4-Trichlorobenzene	U			0.00562	0.0146	1	10/14/2019 23:01	WG1362726
1,1,1-Trichloroethane	U			0.000320	0.00291	1	10/14/2019 23:01	WG1362726
1,1,2-Trichloroethane	U			0.00103	0.00291	1	10/14/2019 23:01	WG1362726
Trichloroethene	U			0.000466	0.00117	1	10/14/2019 23:01	WG1362726
Trichlorofluoromethane	U			0.000583	0.00291	1	10/14/2019 23:01	WG1362726
1,2,3-Trichloropropane	U			0.00594	0.0146	1	10/14/2019 23:01	WG1362726
1,2,4-Trimethylbenzene	U			0.00135	0.00583	1	10/14/2019 23:01	WG1362726
1,2,3-Trimethylbenzene	U			0.00134	0.00583	1	10/14/2019 23:01	WG1362726
1,3,5-Trimethylbenzene	U			0.00126	0.00583	1	10/14/2019 23:01	WG1362726
Vinyl acetate	U	UJ	J0	0.00410	0.0146	1	10/14/2019 23:01	WG1362726
Vinyl chloride	U			0.000796	0.00291	1	10/14/2019 23:01	WG1362726
Xylenes, Total	U			0.00557	0.00757	1	10/14/2019 23:01	WG1362726
(S) Toluene-d8	*107*				*75.0-131*		*10/14/2019 23:01*	WG1362726
(S) 4-Bromofluorobenzene	*97.9*				*67.0-138*		*10/14/2019 23:01*	WG1362726
(S) 1,2-Dichloroethane-d4	*93.3*				*70.0-130*		*10/14/2019 23:01*	WG1362726

JC 11/11/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.2		1	10/12/2019 12:37	WG1361907

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	0.0165	0.0300	1	10/14/2019 23:22	WG1362726
Acrylonitrile	U		0.00228	0.0150	1	10/14/2019 23:22	WG1362726
Benzene	U		0.000481	0.00120	1	10/14/2019 23:22	WG1362726
Bromobenzene	U		0.00126	0.0150	1	10/14/2019 23:22	WG1362726
Bromodichloromethane	U		0.000947	0.00300	1	10/14/2019 23:22	WG1362726
Bromochloromethane	U		0.00136	0.00601	1	10/14/2019 23:22	WG1362726
Bromoform	U		0.00718	0.0300	1	10/14/2019 23:22	WG1362726
Bromomethane	U		0.00444	0.0150	1	10/14/2019 23:22	WG1362726
n-Butylbenzene	U		0.00461	0.0150	1	10/14/2019 23:22	WG1362726
sec-Butylbenzene	U		0.00304	0.0150	1	10/14/2019 23:22	WG1362726
tert-Butylbenzene	U		0.00186	0.00601	1	10/14/2019 23:22	WG1362726
Carbon disulfide	U		0.00488	0.0150	1	10/14/2019 23:22	WG1362726
Carbon tetrachloride	U	UJ J0	0.00130	0.00601	1	10/14/2019 23:22	WG1362726
Chlorobenzene	U		0.000688	0.00300	1	10/14/2019 23:22	WG1362726
Chlorodibromomethane	U		0.000541	0.00300	1	10/14/2019 23:22	WG1362726
Chloroethane	U		0.00130	0.00601	1	10/14/2019 23:22	WG1362726
Chloroform	U		0.000499	0.00300	1	10/14/2019 23:22	WG1362726
Chloromethane	U		0.00167	0.0150	1	10/14/2019 23:22	WG1362726
2-Chlorotoluene	U		0.00111	0.00300	1	10/14/2019 23:22	WG1362726
4-Chlorotoluene	U		0.00136	0.00601	1	10/14/2019 23:22	WG1362726
1,2-Dibromo-3-Chloropropane	U		0.00613	0.0300	1	10/14/2019 23:22	WG1362726
1,2-Dibromoethane	U		0.000631	0.00300	1	10/14/2019 23:22	WG1362726
Dibromomethane	U		0.00120	0.00601	1	10/14/2019 23:22	WG1362726
1,2-Dichlorobenzene	U		0.00174	0.00601	1	10/14/2019 23:22	WG1362726
1,3-Dichlorobenzene	U		0.00204	0.00601	1	10/14/2019 23:22	WG1362726
1,4-Dichlorobenzene	U		0.00237	0.00601	1	10/14/2019 23:22	WG1362726
Dichlorodifluoromethane	U		0.000983	0.00300	1	10/14/2019 23:22	WG1362726
1,1-Dichloroethane	U		0.000691	0.00300	1	10/14/2019 23:22	WG1362726
1,2-Dichloroethane	U		0.000571	0.00300	1	10/14/2019 23:22	WG1362726
1,1-Dichloroethene	U		0.000601	0.00300	1	10/14/2019 23:22	WG1362726
cis-1,2-Dichloroethene	U		0.000829	0.00300	1	10/14/2019 23:22	WG1362726
trans-1,2-Dichloroethene	U		0.00172	0.00601	1	10/14/2019 23:22	WG1362726
1,2-Dichloropropane	U		0.00153	0.00601	1	10/14/2019 23:22	WG1362726
1,1-Dichloropropene	U		0.000841	0.00300	1	10/14/2019 23:22	WG1362726
1,3-Dichloropropane	U		0.00210	0.00601	1	10/14/2019 23:22	WG1362726
cis-1,3-Dichloropropene	U		0.000814	0.00300	1	10/14/2019 23:22	WG1362726
trans-1,3-Dichloropropene	U		0.00184	0.00601	1	10/14/2019 23:22	WG1362726
trans-1,4-Dichloro-2-butene	U		0.00168	0.00601	1	10/14/2019 23:22	WG1362726
2,2-Dichloropropane	U		0.000953	0.00300	1	10/14/2019 23:22	WG1362726
Di-isopropyl ether	U		0.000420	0.00120	1	10/14/2019 23:22	WG1362726
Ethylbenzene	U		0.000637	0.00300	1	10/14/2019 23:22	WG1362726
Hexachloro-1,3-butadiene	U		0.0153	0.0300	1	10/14/2019 23:22	WG1362726
2-Hexanone	U		0.0120	0.0300	1	10/14/2019 23:22	WG1362726
n-Hexane	U		0.00127	0.00601	1	10/14/2019 23:22	WG1362726
Iodomethane	U	UJ J3 J4	0.00727	0.0150	1	10/14/2019 23:22	WG1362726
Isopropylbenzene	U		0.00104	0.00300	1	10/14/2019 23:22	WG1362726
p-Isopropyltoluene	U		0.00280	0.00601	1	10/14/2019 23:22	WG1362726
2-Butanone (MEK)	U		0.0150	0.0300	1	10/14/2019 23:22	WG1362726
Methylene Chloride	U		0.00798	0.0300	1	10/14/2019 23:22	WG1362726
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0300	1	10/14/2019 23:22	WG1362726

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MW-2009-95

Collected date/time: 10/02/19 00:00

SAMPLE RESULTS - 23

L1147020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000354	0.00120	1	10/14/2019 23:22	WG1362726
Naphthalene	U		0.00375	0.0150	1	10/14/2019 23:22	WG1362726
n-Propylbenzene	U		0.00142	0.00601	1	10/14/2019 23:22	WG1362726
Styrene	U		0.00328	0.0150	1	10/14/2019 23:22	WG1362726
1,1,1,2-Tetrachloroethane	U		0.000601	0.00300	1	10/14/2019 23:22	WG1362726
1,1,2,2-Tetrachloroethane	U		0.000469	0.00300	1	10/14/2019 23:22	WG1362726
1,1,2-Trichlorotrifluoroethane	U		0.000811	0.00300	1	10/14/2019 23:22	WG1362726
Tetrachloroethene	U		0.000841	0.00300	1	10/14/2019 23:22	WG1362726
Toluene	0.00217 J	J	0.00150	0.00601	1	10/14/2019 23:22	WG1362726
1,2,3-Trichlorobenzene	U		0.000751	0.00300	1	10/14/2019 23:22	WG1362726
1,2,4-Trichlorobenzene	U		0.00579	0.0150	1	10/14/2019 23:22	WG1362726
1,1,1-Trichloroethane	U		0.000330	0.00300	1	10/14/2019 23:22	WG1362726
1,1,2-Trichloroethane	U		0.00106	0.00300	1	10/14/2019 23:22	WG1362726
Trichloroethene	U		0.000481	0.00120	1	10/14/2019 23:22	WG1362726
Trichlorofluoromethane	U		0.000601	0.00300	1	10/14/2019 23:22	WG1362726
1,2,3-Trichloropropane	U		0.00613	0.0150	1	10/14/2019 23:22	WG1362726
1,2,4-Trimethylbenzene	U		0.00139	0.00601	1	10/14/2019 23:22	WG1362726
1,2,3-Trimethylbenzene	U		0.00138	0.00601	1	10/14/2019 23:22	WG1362726
1,3,5-Trimethylbenzene	U		0.00130	0.00601	1	10/14/2019 23:22	WG1362726
Vinyl acetate	U UJ	J0	0.00423	0.0150	1	10/14/2019 23:22	WG1362726
Vinyl chloride	U		0.000820	0.00300	1	10/14/2019 23:22	WG1362726
Xylenes, Total	U		0.00574	0.00781	1	10/14/2019 23:22	WG1362726
(S) Toluene-d8	*107*			*75.0-131*		*10/14/2019 23:22*	WG1362726
(S) 4-Bromofluorobenzene	*96.4*			*67.0-138*		*10/14/2019 23:22*	WG1362726
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*10/14/2019 23:22*	WG1362726

JC 11/11/19

MEMORANDUM

TO: Project File **DATE:** October 24, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.02.510B

TASK: EIM Data Validation Level EPA2A for Remedial Investigation (RI) Well Drilling and Installation. September 2019 Soil Samples.

LAB: Pace Sample Delivery Groups (SDGs): L1138733, L1138822, L1139523, and L1141899.

Seventy-four (74) soil samples, including three (3) field duplicates, and four (4) trip blanks were collected on September 9,10, 12, and 19, 2019 as part of the RI effort at the Former American Linen Supply Site, in Seattle, Washington. The samples were delivered to Pace Analytical (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following parameters:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons (TPH) or semi-volatile organic compounds (SVOCs) as diesel range organics (DRO) and residual range organics (RRO) by NWTPH-Dx (no silica gel) as stipulated by Washington State Department of Ecology;
- TPH as gasoline (TPH-Gx) by NWTPH-GX per analytical methods stipulated by Washington State Department of Ecology;
- RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by USEPA Method 6010D/7471B; and
- Total Solids by Standard Methods (SM) 2540 G-2011.

The RI Well Drilling and Installation sampling results are reported in multiple SDGs from Pace. Pace SDGs are reviewed in small groups per each data validation report. Group 1 analytical results are reported in Pace SDGs L1138733, L1138822, L1139523, and L1141899. The quality assurance review of the laboratory data associated with Group 1 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National

Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Sample Receipt, Preservation and Handling

The samples were delivered to the project laboratory in coolers under standard chain-of-custody protocols. Review of Pace's chain of custody (COC) notes indicate that all samples were received in good condition either below the recommended preservation temperature 6.0°C. The samples were collected and delivered to the laboratory by courier. No data qualifications were assigned due to sample receipt or temperature preservation issues. The following issues were noted by the laboratory:

- SDG L1139523: Review of Pace's sample receiving notes indicate that sample MW-329-110 was received with its stir bar broken and COC listed sample MW-329-80 was not received. Per PES's confirmation (September 16, 2019) Pace proceeded to analyze MW-329-110 with the remaining volume and proceeded without sample MW-329-80.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and waters (trip blanks) from the date of sample collection. All holding time criteria are met.

NWTPH-Gx Method:
All samples were analyzed for gasoline within the USEPA recommended holding time of fourteen days for preserved soils from the date of sample collection. All holding time criteria were met.

NWTPH-Dx Method:
All samples were extracted within the recommended WA State recommended holding time of fourteen days (preserved soils) of sample collection and analyzed within 40 days from the date of extraction to analysis. All holding time criteria are met.

USEPA Method 6010D:
The samples were analyzed within the USEPA recommended holding time for metals of 180 days for soil from the date of sample collection. All holding time criteria were met.

USEPA Method 7471B:
The samples were extracted and analyzed within the USEPA recommended holding time for mercury of 28 days for soil from the date of sample collection. All holding time criteria were met.

Total Solids by SM 2540 G-2011:
Samples were analyzed within the USEPA recommended holding time of seven days for total solids.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDGs L1138733, L1139523, and L1141899 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for several compounds associated with the trip blanks (analyzed on September 17, 21, 25 of 2019). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **No action is taken on this basis for the associated trip blank results.**

- SDG L1138822 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issue was noted by Pace for acetone associated with analytical batch WG1347115 (analyzed on September 17, 2019). The compound is qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1138822 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for acetone and tetrachloroethene associated with analytical batch WG1347115 (analyzed on September 17, 2019). The compound is qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1138822 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for 1,2-dibromo-3-chloropropane, trans-1,4-dichloro-2-butene, and 1,1,2,2-tetrachloroethane associated with analytical batch WG1347118 (analyzed on September 18, 2019). The compound is qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1139523 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for 1,2-dibromo-3-chloropropane, associated with analytical batch WG1349125 (analyzed on September 20, 2019). The compound is qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1139523 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for trans-1,4-dichloro-2-butene and n-hexane associated with analytical batch WG1349767 (analyzed on September 21, 2019). The compound is qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks are included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the method detection limit (MDLs) or the reporting detection limit (RDLs) with the following exceptions:

- SDG L1138733: Chloroform and methylene chloride are detected below the RDLs in the method blank (analytical batch WG1346556). **All associated chloroform and methylene detections are detected below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDG L1138733: Hexachloro-1,3-butadiene and 1,2,3-trichlorobenzene are detected in the method blank (analytical batch WG1346797) associated with the trip blank below the RDLs. No action is necessary since these compounds were not detected in the associated sample (Trip Blank).

- SDG L1138822: Tetrachloroethene is detected in the method blank (analytical batch WG1345728) associated with the trip blank at 0.253 µg/L and below the RDL (0.500 µg/L). Tetrachloroethene is also detected in the trip blank at a similar level 0.218 µg/L. **The tetrachloroethene detection in sample MW-326-55 is qualified as not detected (U) due to blank contamination.**

- SDG L1138822: Chloroform and methylene chloride are detected in the method blank (analytical batch WG1347118) at low levels below the RDLs. **All associated chloroform and methylene detections are detected below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDG L1138822: Chloroform and 2-butanone (MEK) are detected in the method blank (analytical batch WG1348265) at low levels below the RDLs. **All associated chloroform and 2-butanone (MEK) detections are detected below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDG L1139523: 2-Butanone (MEK) is detected in the method blank (analytical batch WG1349125) at a low level below the RDL. **Associated 2-butanone (MEK) detections (MW-329-10, MW-329-15, and MW-329-20) are detected below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDG L1139523: Acetone, chloroform, and methylene chloride were detected in the method blank (analytical batch WG1349721) at a low level below the RDL.

    - **Associated chloroform detection (MW-329-30) is detected below the RDL and is qualified as not detected (U) due to blank contamination.**

  - **Associated acetone detections (MW-329-25, MW-329-35, MW-329-40, MW-329-45, MW-329-50, MW-329-60, MW-329-70, MW-329-75, MW-329-85, MW-329-95, MW-329-100, and MW-329-105) are detected below the RDL and qualified as not detected (U) due to method or trip blank contamination.**

  - **Associated methylene chloride detections (MW-329-25, MW-329-30) are detected below the RDL and qualified as not detected (U) due to blank contamination.**

- SDG L1139523: Acetone and methylene chloride are detected in the method blank (analytical batch WG1349767) at low levels below the RDL. Associated acetone detection (MW-2003-50) is detected above the RDL. No action is taken. Methylene chloride was not detected in the associated sample (MW-2003-50). No action was necessary.

- SDG L1141899: Acetone and chloroform are detected in the method blank (analytical batch WG1350161) at low levels either above or below the RDL. Acetone was detected at 0.0401 mg/kg and above the RDL of 0.0250 mg/kg. Acetone is considered a common laboratory contaminant. **All associated acetone sample results (MW-309-13.5, MW-309-40, MW-309-45, MW-309-50, MW-309-55, MW-309-60, MW-309-65, MW-309- 70, and MW-309-75) less than 2X the acetone contamination are estimated and qualified (U).** All a**ssociated chloroform detections are below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDG L1141899: Acetone is detected in the method blank (analytical batch WG1351851) associated with the trip blank at 1.56 µg/L and below the RDL (25.0 µg/L). Acetone was detected in the trip blank at a similar level 1.16 µg/L. **Acetone detections below the RDL are qualified as not detected in the associated samples due to trip or method blank contamination.** No action is taken for acetone detections above the RDL.

NWTPH-Gx Method:
A laboratory method blank was included with the analytical batch per method requirement. The target analyte (gasoline) is not detected in the method blanks at a concentration at or above the RDL.

NWTPH-Dx Method:
A laboratory method blank was included with the analytical batch per method requirement. The target analytes (diesel or heavy oil) are not detected in the method blank at concentrations at or above the RLs.

USEPA Method 6010D:
Laboratory method blank was included with the analytical batch per method requirement for soil. The target analytes are not detected in the method blank at or above the RL.

USEPA Method 7471B:
Laboratory method blank was included with the analytical batch per method requirement for soil. The target analyte (mercury) is not detected in the method blank at or above the RL.

Trip Blank Results

USEPA Method 8260C:
Four trip blanks (TB-091019, TRIP BLANK, TB091319, and TB-091919) were collected and analyzed. The target analytes were not detected in the trip blanks at or above the MDLs or RDLs with the following exceptions:

- SDG L1138733: A low level of acetone, below the RDL, is detected in the trip blank. Low levels of acetone (below the RDL) are detected in associated samples MW-316-5, MW-316-15, MW-316-35, MW-316-40, MW-316-45, MW-316-50, MW-316-55, MW-316-60, and MW-316-65. **The acetone detections in these samples are qualified as not detected (U) due to trip blank contamination.**

- SDG L1138822: A low level of acetone, below the RDL, is detected in the trip blank. Low levels of acetone (below the RDL) are detected in associated samples MW-200I-95, MW-326-20, MW-326-25, MW-326-55, MW-326-65, MW-326-70, and MW-326-85. **The acetone detections in these samples are qualified as not detected (U) due to trip blank contamination.**

- SDG L1138822: Tetrachloroethene is detected below the RDL in the trip blank at 0.218 µg/L. Tetrachloroethene is also detected in the method blank (analytical batch WG1345728) at a similar level (0.253 µg/L) and below the RDL (0.500 µg/L). **The tetrachloroethene detection in sample MW-326-55 is below the RDL and qualified as not detected (U) due to blank contamination.**

- SDG L1139523: Acetone, below the RDL, is detected in the trip blank at 1.22 µg/L. Acetone is also detected in the method blank (analytical batch WG1349831) at a similar level (3.51 µg/L) and below the RDL (25.0 µg/L). **Acetone detections below the RDL are qualified as not detected (U) in the associated samples due to trip or method blank contamination.** No action is taken for acetone detections above the RDL.

- SDG L1141899: A low level of acetone, below the RDL, is detected in the trip blank at 1.16 µg/L. Acetone is also detected in the method blank (analytical batch WG1351851) at a similar level (1.56 µg/L) and below the RDL (25.0 µg/L). Low levels of acetone are detected below the RDL in associated samples. **Acetone detections below the RDL are qualified as not detected in the associated samples due to trip or method blank contamination.** No action is taken for acetone detections above the RDL.

Field, Rinsate, or Equipment Blank Results

Field, rinsate or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate sample pairs are as follows:

- SDG L1138733: Samples MW-316-65 and MW-2001-65;

- SDG L1138822: Samples MW-326-95 and MW-2001-95; and
- SDG L1139523: Samples MW-329-50 and MW-2003-50.

Field duplicate pairs were submitted and analyzed for VOCs and percent solids. Percent solids and VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 2x RDL for soil results <5X the RDL) for the field duplicates.

Laboratory Duplicate Analyses

USEPA Method 8260C:
Laboratory duplicate analyses were not performed. Refer to laboratory control samples, field duplicate samples, or matrix spike results for precision data.

NWTPH-Gx Method:
Laboratory duplicate analyses were not performed. Refer to matrix spike results for precision data.

NWTPH-Dx Method:
Laboratory duplicate analyses were not performed. Refer to matrix spike results for precision data.

USEPA Method 6010D:
Laboratory duplicate analyses were not performed. Refer to matrix spike results for precision data.

USEPA Method 7471B:
Laboratory duplicate analyses were not performed. Refer to laboratory control samples and matrix spike results for precision data.

Total Solids by SM 2540 G-2011:
Laboratory duplicate samples were performed on client and non-client samples associated with the analytical batches. The RPDs for percent moisture are within the laboratory control limit of 20% RPD.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

NWTPH-Gx Method:
The surrogate recovery results for the samples, matrix spike samples, laboratory control sample, and the method blank are within the laboratory surrogate control limits for all the analyses.

NWTPH-Dx Method:

The surrogate recovery results for the samples, matrix spike samples, laboratory control sample, and the method blank are within the laboratory surrogate control limits for all the analyses.

Matrix Spike/ Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on client and non-client samples within the analytical batch. In cases where MS/MSDs were not performed refer to laboratory control samples, field duplicate data for accuracy and precision data. The MS/MSD %R's and RPDs for the target compounds are within the laboratory control criteria for soil with the following discussion:

- SDG L1138733: Matrix spike analyses was performed on a non-client sample within the analytical batch. Multiple RPDs are outside of laboratory control limit criteria. Several MS or MSD % R's are outside of criteria. No action is taken since the spike was performed on a non-client sample. Refer to laboratory control sample and field duplicate results for additional quality control data.

- SDG L1138822: Matrix spike analyses was performed on a non-client sample within the analytical batch. MS/MSD % R's are outside of criteria for one compound. No action is taken since the spike was performed on a non-client sample. Refer to laboratory control sample and field duplicate results for additional quality control data.

- SDG L1139523: MS/MSD (WG1349767) RPDs for multiple compounds are above the laboratory acceptance criteria and laboratory qualified (J3). No action is taken since the matrix spike was performed on a non-client sample. Refer to laboratory control sample and field duplicate results for additional quality control data.

NWTPH-Gx Method:
MS/MSD analyses were performed on a non-client soil sample within the analytical batch. MS/MSD spike recoveries and RPD are within laboratory control limit criteria. No matrix spike analysis was performed with analytical batch WG1350856. No measure of precision is available for sample MW-309-15. No action is taken other than to note this.

NWTPH-Dx Method:
MS/MSD analyses were performed on a non-client soil sample within the analytical batch. MSD spike recovery and RPD are within laboratory control limit criteria.

USEPA Method 6010D:
MS/MSD analysis was performed on a non-client soil sample within the analytical batch. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for soil samples.

USEPA Method 7471B:
MS/MSD analysis was performed on a non-client soil sample within the analytical batch. The MS/MSD % Rs and RPD are acceptable and within laboratory control limit criteria for soil samples.

Laboratory Control Samples

USEPA Method 8260C:
Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed by USEPA Method 8260C. In some cases, only an LCS was analyzed. For precision data refer to laboratory duplicate or field duplicate results. The LCS or LCS/LCSD %R's and RPDs for the target compounds are within the laboratory control criteria for soils with the following discussion:

- SDG L1138822: LCS/LCSD (WG1347115) acetone RPD is outside of laboratory acceptance criteria and laboratory qualified (J3). No action is taken on this basis since acetone percent recoveries are within acceptance criteria.

- SDG L1139523: LCS (WG1349721) carbon disulfide recovery was detected below the laboratory acceptance criteria and laboratory qualified (J4). **All associated carbon disulfide sample results are estimated and qualified (UJ).**

- SDG L1139523: LCSD (WG1349767) carbon disulfide recovery and RPD are outside of laboratory acceptance criteria and laboratory qualified (J3 and J4). **The associated carbon disulfide sample result (sample MW-2003-50) is estimated and qualified (UJ).**

- SDG L1139523: LCSD (WG1349767) bromochloromethane, carbon tetrachloride, 1,1,1-trichloroethane, and vinyl chloride recoveries are above the laboratory acceptance criteria and laboratory qualified (J4). No action is taken since these compounds are not detected in sample MW-2003-50.

- SDG L1139523: LCSD (WG1349767) p-isopropyltoluene RPD for is outside of laboratory control limit criteria. No action is taken since both LCS and LCSD recoveries are within laboratory acceptance criteria.

- SDG L1139523: LCSD (WG1349831) 1,2,3-trichloropropane recovery above the laboratory acceptance criteria and laboratory qualified (J4). No action is taken since this compound is not detected in the trip blank.

NWTPH-Gx Method:
LCS were analyzed by NWTPH-GX. For precision data refer matrix spike results. The LCS %R's for the target compounds are within the laboratory control criteria for soils.

NWTPH-Dx Method:
LCS/LCSD were analyzed within the analytical batch by NWTPH-Dx. The LCS/LCSD % Rs and RPD are acceptable and within laboratory control limit criteria for soil samples.

USEPA Method 6010D:
LCS/LCSD were analyzed within the analytical batch for metals. The LCS/LCSD % Rs and RPD are acceptable and within laboratory control limit criteria for soil samples.

USEPA Method 7471B:
LCS/LCSD were analyzed within the analytical batch for mercury. The LCS/LCSD % Rs and RPD are acceptable and within laboratory control limit criteria for soil samples.

Moisture by Method 8000D:
LCS were analyzed within the analytical batch. For precision data refer to laboratory or field duplicate results. The LCS %Rs for the target compound is within the laboratory control criteria for soils.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory reports with the following discussion:

- Electronic data deliverables (EDDs) for these Work Orders were provided by the laboratory and data validator qualifiers were entered, as appropriate, into the EDDs.

Quantitation Limits

Results of all analyses were reported based on standard laboratory RLs. The reported RLs are considered appropriate for this project. RLs in nearly all cases are raised (10X) for method-required dilutions.

Completeness

The samples were collected and analyzed as requested. Data completeness is 100%.

Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017)

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.4		1	09/17/2019 16:33	WG1347285

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0267 U	J	0.0148	0.0271	1	09/16/2019 14:42	WG1346556
Acrylonitrile	U		0.00206	0.0135	1	09/16/2019 14:42	WG1346556
Benzene	U		0.000433	0.00108	1	09/16/2019 14:42	WG1346556
Bromobenzene	U		0.00114	0.0135	1	09/16/2019 14:42	WG1346556
Bromodichloromethane	U		0.000853	0.00271	1	09/16/2019 14:42	WG1346556
Bromochloromethane	U		0.00122	0.00541	1	09/16/2019 14:42	WG1346556
Bromoform	U		0.00647	0.0271	1	09/16/2019 14:42	WG1346556
Bromomethane	U		0.00401	0.0135	1	09/16/2019 14:42	WG1346556
n-Butylbenzene	U		0.00416	0.0135	1	09/16/2019 14:42	WG1346556
sec-Butylbenzene	U		0.00274	0.0135	1	09/16/2019 14:42	WG1346556
tert-Butylbenzene	U		0.00168	0.00541	1	09/16/2019 14:42	WG1346556
Carbon disulfide	U		0.00440	0.0135	1	09/16/2019 14:42	WG1346556
Carbon tetrachloride	U		0.00117	0.00541	1	09/16/2019 14:42	WG1346556
Chlorobenzene	U		0.000620	0.00271	1	09/16/2019 14:42	WG1346556
Chlorodibromomethane	U		0.000487	0.00271	1	09/16/2019 14:42	WG1346556
Chloroethane	U		0.00117	0.00541	1	09/16/2019 14:42	WG1346556
Chloroform	0.000580 U	B J	0.000449	0.00271	1	09/16/2019 14:42	WG1346556
Chloromethane	U		0.00150	0.0135	1	09/16/2019 14:42	WG1346556
2-Chlorotoluene	U		0.000996	0.00271	1	09/16/2019 14:42	WG1346556
4-Chlorotoluene	U		0.00122	0.00541	1	09/16/2019 14:42	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00552	0.0271	1	09/16/2019 14:42	WG1346556
1,2-Dibromoethane	U		0.000568	0.00271	1	09/16/2019 14:42	WG1346556
Dibromomethane	U		0.00108	0.00541	1	09/16/2019 14:42	WG1346556
1,2-Dichlorobenzene	U		0.00157	0.00541	1	09/16/2019 14:42	WG1346556
1,3-Dichlorobenzene	U		0.00184	0.00541	1	09/16/2019 14:42	WG1346556
1,4-Dichlorobenzene	U		0.00213	0.00541	1	09/16/2019 14:42	WG1346556
Dichlorodifluoromethane	U		0.000886	0.00271	1	09/16/2019 14:42	WG1346556
1,1-Dichloroethane	U		0.000622	0.00271	1	09/16/2019 14:42	WG1346556
1,2-Dichloroethane	U		0.000514	0.00271	1	09/16/2019 14:42	WG1346556
1,1-Dichloroethene	U		0.000541	0.00271	1	09/16/2019 14:42	WG1346556
cis-1,2-Dichloroethene	U		0.000747	0.00271	1	09/16/2019 14:42	WG1346556
trans-1,2-Dichloroethene	U		0.00155	0.00541	1	09/16/2019 14:42	WG1346556
1,2-Dichloropropane	U		0.00137	0.00541	1	09/16/2019 14:42	WG1346556
1,1-Dichloropropene	U		0.000758	0.00271	1	09/16/2019 14:42	WG1346556
1,3-Dichloropropane	U		0.00189	0.00541	1	09/16/2019 14:42	WG1346556
cis-1,3-Dichloropropene	U		0.000734	0.00271	1	09/16/2019 14:42	WG1346556
trans-1,3-Dichloropropene	U		0.00166	0.00541	1	09/16/2019 14:42	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00152	0.00541	1	09/16/2019 14:42	WG1346556
2,2-Dichloropropane	U		0.000859	0.00271	1	09/16/2019 14:42	WG1346556
Di-isopropyl ether	U		0.000379	0.00108	1	09/16/2019 14:42	WG1346556
Ethylbenzene	U		0.000574	0.00271	1	09/16/2019 14:42	WG1346556
Hexachloro-1,3-butadiene	U		0.0137	0.0271	1	09/16/2019 14:42	WG1346556
2-Hexanone	U		0.0108	0.0271	1	09/16/2019 14:42	WG1346556
n-Hexane	0.00567		0.00115	0.00541	1	09/16/2019 14:42	WG1346556
Iodomethane	U		0.00655	0.0135	1	09/16/2019 14:42	WG1346556
Isopropylbenzene	U		0.000934	0.00271	1	09/16/2019 14:42	WG1346556
p-Isopropyltoluene	U		0.00252	0.00541	1	09/16/2019 14:42	WG1346556
2-Butanone (MEK)	U		0.0135	0.0271	1	09/16/2019 14:42	WG1346556
Methylene Chloride	0.0126 U	B J	0.00719	0.0271	1	09/16/2019 14:42	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0271	1	09/16/2019 14:42	WG1346556

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000319	0.00108	1	09/16/2019 14:42	WG1346556
Naphthalene	U		0.00338	0.0135	1	09/16/2019 14:42	WG1346556
n-Propylbenzene	U		0.00128	0.00541	1	09/16/2019 14:42	WG1346556
Styrene	U		0.00296	0.0135	1	09/16/2019 14:42	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000541	0.00271	1	09/16/2019 14:42	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000422	0.00271	1	09/16/2019 14:42	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000731	0.00271	1	09/16/2019 14:42	WG1346556
Tetrachloroethene	U		0.000758	0.00271	1	09/16/2019 14:42	WG1346556
Toluene	0.00780		0.00135	0.00541	1	09/16/2019 14:42	WG1346556
1,2,3-Trichlorobenzene	U		0.000677	0.00271	1	09/16/2019 14:42	WG1346556
1,2,4-Trichlorobenzene	U		0.00522	0.0135	1	09/16/2019 14:42	WG1346556
1,1,1-Trichloroethane	U		0.000298	0.00271	1	09/16/2019 14:42	WG1346556
1,1,2-Trichloroethane	U		0.000956	0.00271	1	09/16/2019 14:42	WG1346556
Trichloroethene	U		0.000433	0.00108	1	09/16/2019 14:42	WG1346556
Trichlorofluoromethane	U		0.000541	0.00271	1	09/16/2019 14:42	WG1346556
1,2,3-Trichloropropane	U		0.00552	0.0135	1	09/16/2019 14:42	WG1346556
1,2,4-Trimethylbenzene	U		0.00126	0.00541	1	09/16/2019 14:42	WG1346556
1,2,3-Trimethylbenzene	U		0.00124	0.00541	1	09/16/2019 14:42	WG1346556
1,3,5-Trimethylbenzene	U		0.00117	0.00541	1	09/16/2019 14:42	WG1346556
Vinyl acetate	U		0.00381	0.0135	1	09/16/2019 14:42	WG1346556
Vinyl chloride	U		0.000739	0.00271	1	09/16/2019 14:42	WG1346556
Xylenes, Total	U		0.00517	0.00704	1	09/16/2019 14:42	WG1346556
(S) Toluene-d8	*105*			*75.0-131*		*09/16/2019 14:42*	WG1346556
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/16/2019 14:42*	WG1346556
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/16/2019 14:42*	WG1346556

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.4		1	09/17/2019 16:33	WG1347285

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0346		0.0155	0.0283	1	09/16/2019 15:03	WG1346556
Acrylonitrile	U		0.00215	0.0141	1	09/16/2019 15:03	WG1346556
Benzene	U		0.000453	0.00113	1	09/16/2019 15:03	WG1346556
Bromobenzene	U		0.00119	0.0141	1	09/16/2019 15:03	WG1346556
Bromodichloromethane	U		0.000891	0.00283	1	09/16/2019 15:03	WG1346556
Bromochloromethane	U		0.00128	0.00566	1	09/16/2019 15:03	WG1346556
Bromoform	U		0.00677	0.0283	1	09/16/2019 15:03	WG1346556
Bromomethane	U		0.00419	0.0141	1	09/16/2019 15:03	WG1346556
n-Butylbenzene	U		0.00434	0.0141	1	09/16/2019 15:03	WG1346556
sec-Butylbenzene	U		0.00286	0.0141	1	09/16/2019 15:03	WG1346556
tert-Butylbenzene	U		0.00175	0.00566	1	09/16/2019 15:03	WG1346556
Carbon disulfide	U		0.00459	0.0141	1	09/16/2019 15:03	WG1346556
Carbon tetrachloride	U		0.00122	0.00566	1	09/16/2019 15:03	WG1346556
Chlorobenzene	U		0.000648	0.00283	1	09/16/2019 15:03	WG1346556
Chlorodibromomethane	U		0.000509	0.00283	1	09/16/2019 15:03	WG1346556
Chloroethane	U		0.00122	0.00566	1	09/16/2019 15:03	WG1346556
Chloroform	0.00102 U	B J	0.000469	0.00283	1	09/16/2019 15:03	WG1346556
Chloromethane	U		0.00157	0.0141	1	09/16/2019 15:03	WG1346556
2-Chlorotoluene	U		0.00104	0.00283	1	09/16/2019 15:03	WG1346556
4-Chlorotoluene	U		0.00128	0.00566	1	09/16/2019 15:03	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00577	0.0283	1	09/16/2019 15:03	WG1346556
1,2-Dibromoethane	U		0.000594	0.00283	1	09/16/2019 15:03	WG1346556
Dibromomethane	U		0.00113	0.00566	1	09/16/2019 15:03	WG1346556
1,2-Dichlorobenzene	U		0.00164	0.00566	1	09/16/2019 15:03	WG1346556
1,3-Dichlorobenzene	U		0.00192	0.00566	1	09/16/2019 15:03	WG1346556
1,4-Dichlorobenzene	U		0.00223	0.00566	1	09/16/2019 15:03	WG1346556
Dichlorodifluoromethane	U		0.000925	0.00283	1	09/16/2019 15:03	WG1346556
1,1-Dichloroethane	U		0.000650	0.00283	1	09/16/2019 15:03	WG1346556
1,2-Dichloroethane	U		0.000537	0.00283	1	09/16/2019 15:03	WG1346556
1,1-Dichloroethene	U		0.000566	0.00283	1	09/16/2019 15:03	WG1346556
cis-1,2-Dichloroethene	U		0.000781	0.00283	1	09/16/2019 15:03	WG1346556
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	09/16/2019 15:03	WG1346556
1,2-Dichloropropane	U		0.00144	0.00566	1	09/16/2019 15:03	WG1346556
1,1-Dichloropropene	U		0.000792	0.00283	1	09/16/2019 15:03	WG1346556
1,3-Dichloropropane	U		0.00198	0.00566	1	09/16/2019 15:03	WG1346556
cis-1,3-Dichloropropene	U		0.000767	0.00283	1	09/16/2019 15:03	WG1346556
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	09/16/2019 15:03	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00158	0.00566	1	09/16/2019 15:03	WG1346556
2,2-Dichloropropane	U		0.000897	0.00283	1	09/16/2019 15:03	WG1346556
Di-isopropyl ether	U		0.000396	0.00113	1	09/16/2019 15:03	WG1346556
Ethylbenzene	U		0.000600	0.00283	1	09/16/2019 15:03	WG1346556
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/16/2019 15:03	WG1346556
2-Hexanone	U		0.0113	0.0283	1	09/16/2019 15:03	WG1346556
n-Hexane	0.00978		0.00120	0.00566	1	09/16/2019 15:03	WG1346556
Iodomethane	U		0.00684	0.0141	1	09/16/2019 15:03	WG1346556
Isopropylbenzene	U		0.000976	0.00283	1	09/16/2019 15:03	WG1346556
p-Isopropyltoluene	U		0.00264	0.00566	1	09/16/2019 15:03	WG1346556
2-Butanone (MEK)	U		0.0141	0.0283	1	09/16/2019 15:03	WG1346556
Methylene Chloride	0.0161 U	B J	0.00751	0.0283	1	09/16/2019 15:03	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/16/2019 15:03	WG1346556

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	09/16/2019 15:03	WG1346556
Naphthalene	U		0.00353	0.0141	1	09/16/2019 15:03	WG1346556
n-Propylbenzene	U		0.00133	0.00566	1	09/16/2019 15:03	WG1346556
Styrene	U		0.00309	0.0141	1	09/16/2019 15:03	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	09/16/2019 15:03	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	09/16/2019 15:03	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	09/16/2019 15:03	WG1346556
Tetrachloroethene	U		0.000792	0.00283	1	09/16/2019 15:03	WG1346556
Toluene	0.0197		0.00141	0.00566	1	09/16/2019 15:03	WG1346556
1,2,3-Trichlorobenzene	U		0.000707	0.00283	1	09/16/2019 15:03	WG1346556
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	09/16/2019 15:03	WG1346556
1,1,1-Trichloroethane	U		0.000311	0.00283	1	09/16/2019 15:03	WG1346556
1,1,2-Trichloroethane	U		0.000999	0.00283	1	09/16/2019 15:03	WG1346556
Trichloroethene	U		0.000453	0.00113	1	09/16/2019 15:03	WG1346556
Trichlorofluoromethane	0.00346		0.000566	0.00283	1	09/16/2019 15:03	WG1346556
1,2,3-Trichloropropane	U		0.00577	0.0141	1	09/16/2019 15:03	WG1346556
1,2,4-Trimethylbenzene	U		0.00131	0.00566	1	09/16/2019 15:03	WG1346556
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	09/16/2019 15:03	WG1346556
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	09/16/2019 15:03	WG1346556
Vinyl acetate	U		0.00398	0.0141	1	09/16/2019 15:03	WG1346556
Vinyl chloride	U		0.000773	0.00283	1	09/16/2019 15:03	WG1346556
Xylenes, Total	U		0.00541	0.00735	1	09/16/2019 15:03	WG1346556
(S) Toluene-d8	*104*			*75.0-131*		*09/16/2019 15:03*	WG1346556
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/16/2019 15:03*	WG1346556
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*09/16/2019 15:03*	WG1346556

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	09/17/2019 16:33	WG1347285

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0171 U	J	0.0154	0.0281	1	09/16/2019 15:24	WG1346556
Acrylonitrile	U		0.00214	0.0141	1	09/16/2019 15:24	WG1346556
Benzene	U		0.000450	0.00112	1	09/16/2019 15:24	WG1346556
Bromobenzene	U		0.00118	0.0141	1	09/16/2019 15:24	WG1346556
Bromodichloromethane	U		0.000886	0.00281	1	09/16/2019 15:24	WG1346556
Bromochloromethane	U		0.00127	0.00562	1	09/16/2019 15:24	WG1346556
Bromoform	U		0.00672	0.0281	1	09/16/2019 15:24	WG1346556
Bromomethane	U		0.00416	0.0141	1	09/16/2019 15:24	WG1346556
n-Butylbenzene	U		0.00432	0.0141	1	09/16/2019 15:24	WG1346556
sec-Butylbenzene	U		0.00284	0.0141	1	09/16/2019 15:24	WG1346556
tert-Butylbenzene	U		0.00174	0.00562	1	09/16/2019 15:24	WG1346556
Carbon disulfide	U		0.00457	0.0141	1	09/16/2019 15:24	WG1346556
Carbon tetrachloride	U		0.00121	0.00562	1	09/16/2019 15:24	WG1346556
Chlorobenzene	U		0.000644	0.00281	1	09/16/2019 15:24	WG1346556
Chlorodibromomethane	U		0.000506	0.00281	1	09/16/2019 15:24	WG1346556
Chloroethane	U		0.00121	0.00562	1	09/16/2019 15:24	WG1346556
Chloroform	0.000817 U	B J	0.000467	0.00281	1	09/16/2019 15:24	WG1346556
Chloromethane	U		0.00156	0.0141	1	09/16/2019 15:24	WG1346556
2-Chlorotoluene	U		0.00103	0.00281	1	09/16/2019 15:24	WG1346556
4-Chlorotoluene	U		0.00127	0.00562	1	09/16/2019 15:24	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	09/16/2019 15:24	WG1346556
1,2-Dibromoethane	U		0.000590	0.00281	1	09/16/2019 15:24	WG1346556
Dibromomethane	U		0.00112	0.00562	1	09/16/2019 15:24	WG1346556
1,2-Dichlorobenzene	U		0.00163	0.00562	1	09/16/2019 15:24	WG1346556
1,3-Dichlorobenzene	U		0.00191	0.00562	1	09/16/2019 15:24	WG1346556
1,4-Dichlorobenzene	U		0.00222	0.00562	1	09/16/2019 15:24	WG1346556
Dichlorodifluoromethane	U		0.000920	0.00281	1	09/16/2019 15:24	WG1346556
1,1-Dichloroethane	U		0.000647	0.00281	1	09/16/2019 15:24	WG1346556
1,2-Dichloroethane	U		0.000534	0.00281	1	09/16/2019 15:24	WG1346556
1,1-Dichloroethene	U		0.000562	0.00281	1	09/16/2019 15:24	WG1346556
cis-1,2-Dichloroethene	U		0.000776	0.00281	1	09/16/2019 15:24	WG1346556
trans-1,2-Dichloroethene	U		0.00161	0.00562	1	09/16/2019 15:24	WG1346556
1,2-Dichloropropane	U		0.00143	0.00562	1	09/16/2019 15:24	WG1346556
1,1-Dichloropropene	U		0.000787	0.00281	1	09/16/2019 15:24	WG1346556
1,3-Dichloropropane	U		0.00197	0.00562	1	09/16/2019 15:24	WG1346556
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	09/16/2019 15:24	WG1346556
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	09/16/2019 15:24	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	09/16/2019 15:24	WG1346556
2,2-Dichloropropane	U		0.000892	0.00281	1	09/16/2019 15:24	WG1346556
Di-isopropyl ether	U		0.000394	0.00112	1	09/16/2019 15:24	WG1346556
Ethylbenzene	U		0.000596	0.00281	1	09/16/2019 15:24	WG1346556
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	09/16/2019 15:24	WG1346556
2-Hexanone	U		0.0112	0.0281	1	09/16/2019 15:24	WG1346556
n-Hexane	0.00364 J	J	0.00119	0.00562	1	09/16/2019 15:24	WG1346556
Iodomethane	U		0.00680	0.0141	1	09/16/2019 15:24	WG1346556
Isopropylbenzene	U		0.000970	0.00281	1	09/16/2019 15:24	WG1346556
p-Isopropyltoluene	U		0.00262	0.00562	1	09/16/2019 15:24	WG1346556
2-Butanone (MEK)	U		0.0141	0.0281	1	09/16/2019 15:24	WG1346556
Methylene Chloride	0.0110 U	B J	0.00747	0.0281	1	09/16/2019 15:24	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	09/16/2019 15:24	WG1346556

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00112	1	09/16/2019 15:24	WG1346556
Naphthalene	U		0.00351	0.0141	1	09/16/2019 15:24	WG1346556
n-Propylbenzene	U		0.00133	0.00562	1	09/16/2019 15:24	WG1346556
Styrene	U		0.00307	0.0141	1	09/16/2019 15:24	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	09/16/2019 15:24	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000439	0.00281	1	09/16/2019 15:24	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000759	0.00281	1	09/16/2019 15:24	WG1346556
Tetrachloroethene	U		0.000787	0.00281	1	09/16/2019 15:24	WG1346556
Toluene	0.00457 J	J	0.00141	0.00562	1	09/16/2019 15:24	WG1346556
1,2,3-Trichlorobenzene	U		0.000703	0.00281	1	09/16/2019 15:24	WG1346556
1,2,4-Trichlorobenzene	U		0.00542	0.0141	1	09/16/2019 15:24	WG1346556
1,1,1-Trichloroethane	U		0.000309	0.00281	1	09/16/2019 15:24	WG1346556
1,1,2-Trichloroethane	U		0.000993	0.00281	1	09/16/2019 15:24	WG1346556
Trichloroethene	U		0.000450	0.00112	1	09/16/2019 15:24	WG1346556
Trichlorofluoromethane	0.00179 J	J	0.000562	0.00281	1	09/16/2019 15:24	WG1346556
1,2,3-Trichloropropane	U		0.00573	0.0141	1	09/16/2019 15:24	WG1346556
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	09/16/2019 15:24	WG1346556
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	09/16/2019 15:24	WG1346556
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	09/16/2019 15:24	WG1346556
Vinyl acetate	U		0.00396	0.0141	1	09/16/2019 15:24	WG1346556
Vinyl chloride	U		0.000768	0.00281	1	09/16/2019 15:24	WG1346556
Xylenes, Total	U		0.00537	0.00731	1	09/16/2019 15:24	WG1346556
(S) Toluene-d8	*109*			*75.0-131*		*09/16/2019 15:24*	WG1346556
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*09/16/2019 15:24*	WG1346556
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*09/16/2019 15:24*	WG1346556

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.7		1	09/17/2019 16:33	WG1347285

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0282			0.0148	0.0270	1	09/16/2019 16:05	WG1346556	
Acrylonitrile	U			0.00205	0.0135	1	09/16/2019 16:05	WG1346556	
Benzene	U			0.000431	0.00108	1	09/16/2019 16:05	WG1346556	
Bromobenzene	U			0.00113	0.0135	1	09/16/2019 16:05	WG1346556	
Bromodichloromethane	U			0.000850	0.00270	1	09/16/2019 16:05	WG1346556	
Bromochloromethane	U			0.00122	0.00539	1	09/16/2019 16:05	WG1346556	
Bromoform	U			0.00645	0.0270	1	09/16/2019 16:05	WG1346556	
Bromomethane	U			0.00399	0.0135	1	09/16/2019 16:05	WG1346556	
n-Butylbenzene	U			0.00414	0.0135	1	09/16/2019 16:05	WG1346556	
sec-Butylbenzene	U			0.00273	0.0135	1	09/16/2019 16:05	WG1346556	
tert-Butylbenzene	U			0.00167	0.00539	1	09/16/2019 16:05	WG1346556	
Carbon disulfide	U			0.00438	0.0135	1	09/16/2019 16:05	WG1346556	
Carbon tetrachloride	U			0.00117	0.00539	1	09/16/2019 16:05	WG1346556	
Chlorobenzene	U			0.000618	0.00270	1	09/16/2019 16:05	WG1346556	
Chlorodibromomethane	U			0.000485	0.00270	1	09/16/2019 16:05	WG1346556	
Chloroethane	U			0.00117	0.00539	1	09/16/2019 16:05	WG1346556	
Chloroform	0.000702	U	B J	0.000448	0.00270	1	09/16/2019 16:05	WG1346556	
Chloromethane	U			0.00150	0.0135	1	09/16/2019 16:05	WG1346556	
2-Chlorotoluene	U			0.000992	0.00270	1	09/16/2019 16:05	WG1346556	
4-Chlorotoluene	U			0.00122	0.00539	1	09/16/2019 16:05	WG1346556	
1,2-Dibromo-3-Chloropropane	U			0.00550	0.0270	1	09/16/2019 16:05	WG1346556	
1,2-Dibromoethane	U			0.000566	0.00270	1	09/16/2019 16:05	WG1346556	
Dibromomethane	U			0.00108	0.00539	1	09/16/2019 16:05	WG1346556	
1,2-Dichlorobenzene	U			0.00156	0.00539	1	09/16/2019 16:05	WG1346556	
1,3-Dichlorobenzene	U			0.00183	0.00539	1	09/16/2019 16:05	WG1346556	
1,4-Dichlorobenzene	U			0.00213	0.00539	1	09/16/2019 16:05	WG1346556	
Dichlorodifluoromethane	U			0.000882	0.00270	1	09/16/2019 16:05	WG1346556	
1,1-Dichloroethane	U			0.000620	0.00270	1	09/16/2019 16:05	WG1346556	
1,2-Dichloroethane	U			0.000512	0.00270	1	09/16/2019 16:05	WG1346556	
1,1-Dichloroethene	U			0.000539	0.00270	1	09/16/2019 16:05	WG1346556	
cis-1,2-Dichloroethene	U			0.000744	0.00270	1	09/16/2019 16:05	WG1346556	
trans-1,2-Dichloroethene	U			0.00154	0.00539	1	09/16/2019 16:05	WG1346556	
1,2-Dichloropropane	U			0.00137	0.00539	1	09/16/2019 16:05	WG1346556	
1,1-Dichloropropene	U			0.000755	0.00270	1	09/16/2019 16:05	WG1346556	
1,3-Dichloropropane	U			0.00189	0.00539	1	09/16/2019 16:05	WG1346556	
cis-1,3-Dichloropropene	U			0.000731	0.00270	1	09/16/2019 16:05	WG1346556	
trans-1,3-Dichloropropene	U			0.00165	0.00539	1	09/16/2019 16:05	WG1346556	
trans-1,4-Dichloro-2-butene	U			0.00151	0.00539	1	09/16/2019 16:05	WG1346556	
2,2-Dichloropropane	U			0.000855	0.00270	1	09/16/2019 16:05	WG1346556	
Di-isopropyl ether	U			0.000378	0.00108	1	09/16/2019 16:05	WG1346556	
Ethylbenzene	U			0.000572	0.00270	1	09/16/2019 16:05	WG1346556	
Hexachloro-1,3-butadiene	U			0.0137	0.0270	1	09/16/2019 16:05	WG1346556	
2-Hexanone	U			0.0108	0.0270	1	09/16/2019 16:05	WG1346556	
n-Hexane	0.00400	J	J	0.00114	0.00539	1	09/16/2019 16:05	WG1346556	
Iodomethane	U			0.00653	0.0135	1	09/16/2019 16:05	WG1346556	
Isopropylbenzene	U			0.000931	0.00270	1	09/16/2019 16:05	WG1346556	
p-Isopropyltoluene	U			0.00251	0.00539	1	09/16/2019 16:05	WG1346556	JC 10/24/19
2-Butanone (MEK)	U			0.0135	0.0270	1	09/16/2019 16:05	WG1346556	
Methylene Chloride	0.0111	U	B J	0.00716	0.0270	1	09/16/2019 16:05	WG1346556	
4-Methyl-2-pentanone (MIBK)	U			0.0108	0.0270	1	09/16/2019 16:05	WG1346556	

MW-316-20

Collected date/time: 09/09/19 11:20

SAMPLE RESULTS - 04

L1138733

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000318	0.00108	1	09/16/2019 16:05	WG1346556
Naphthalene	U		0.00337	0.0135	1	09/16/2019 16:05	WG1346556
n-Propylbenzene	U		0.00127	0.00539	1	09/16/2019 16:05	WG1346556
Styrene	U		0.00294	0.0135	1	09/16/2019 16:05	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000539	0.00270	1	09/16/2019 16:05	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000421	0.00270	1	09/16/2019 16:05	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000728	0.00270	1	09/16/2019 16:05	WG1346556
Tetrachloroethene	0.00305		0.000755	0.00270	1	09/16/2019 16:05	WG1346556
Toluene	0.00535 J	J	0.00135	0.00539	1	09/16/2019 16:05	WG1346556
1,2,3-Trichlorobenzene	U		0.000674	0.00270	1	09/16/2019 16:05	WG1346556
1,2,4-Trichlorobenzene	U		0.00520	0.0135	1	09/16/2019 16:05	WG1346556
1,1,1-Trichloroethane	U		0.000297	0.00270	1	09/16/2019 16:05	WG1346556
1,1,2-Trichloroethane	U		0.000953	0.00270	1	09/16/2019 16:05	WG1346556
Trichloroethene	U		0.000431	0.00108	1	09/16/2019 16:05	WG1346556
Trichlorofluoromethane	0.00182 J	J	0.000539	0.00270	1	09/16/2019 16:05	WG1346556
1,2,3-Trichloropropane	U		0.00550	0.0135	1	09/16/2019 16:05	WG1346556
1,2,4-Trimethylbenzene	U		0.00125	0.00539	1	09/16/2019 16:05	WG1346556
1,2,3-Trimethylbenzene	U		0.00124	0.00539	1	09/16/2019 16:05	WG1346556
1,3,5-Trimethylbenzene	U		0.00117	0.00539	1	09/16/2019 16:05	WG1346556
Vinyl acetate	U		0.00380	0.0135	1	09/16/2019 16:05	WG1346556
Vinyl chloride	U		0.000737	0.00270	1	09/16/2019 16:05	WG1346556
Xylenes, Total	U		0.00516	0.00701	1	09/16/2019 16:05	WG1346556
(S) Toluene-d8	*106*			*75.0-131*		*09/16/2019 16:05*	WG1346556
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*09/16/2019 16:05*	WG1346556
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/16/2019 16:05*	WG1346556

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.1		1	09/17/2019 16:33	WG1347285

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0400		0.0155	0.0284	1	09/16/2019 16:25	WG1346556
Acrylonitrile	U		0.00216	0.0142	1	09/16/2019 16:25	WG1346556
Benzene	U		0.000454	0.00113	1	09/16/2019 16:25	WG1346556
Bromobenzene	U		0.00119	0.0142	1	09/16/2019 16:25	WG1346556
Bromodichloromethane	U		0.000894	0.00284	1	09/16/2019 16:25	WG1346556
Bromochloromethane	U		0.00128	0.00567	1	09/16/2019 16:25	WG1346556
Bromoform	U		0.00678	0.0284	1	09/16/2019 16:25	WG1346556
Bromomethane	U		0.00420	0.0142	1	09/16/2019 16:25	WG1346556
n-Butylbenzene	U		0.00436	0.0142	1	09/16/2019 16:25	WG1346556
sec-Butylbenzene	U		0.00287	0.0142	1	09/16/2019 16:25	WG1346556
tert-Butylbenzene	U		0.00176	0.00567	1	09/16/2019 16:25	WG1346556
Carbon disulfide	U		0.00461	0.0142	1	09/16/2019 16:25	WG1346556
Carbon tetrachloride	U		0.00123	0.00567	1	09/16/2019 16:25	WG1346556
Chlorobenzene	U		0.000650	0.00284	1	09/16/2019 16:25	WG1346556
Chlorodibromomethane	U		0.000511	0.00284	1	09/16/2019 16:25	WG1346556
Chloroethane	U		0.00123	0.00567	1	09/16/2019 16:25	WG1346556
Chloroform	0.000593 U	B J	0.000471	0.00284	1	09/16/2019 16:25	WG1346556
Chloromethane	U		0.00158	0.0142	1	09/16/2019 16:25	WG1346556
2-Chlorotoluene	U		0.00104	0.00284	1	09/16/2019 16:25	WG1346556
4-Chlorotoluene	U		0.00128	0.00567	1	09/16/2019 16:25	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00579	0.0284	1	09/16/2019 16:25	WG1346556
1,2-Dibromoethane	U		0.000596	0.00284	1	09/16/2019 16:25	WG1346556
Dibromomethane	U		0.00113	0.00567	1	09/16/2019 16:25	WG1346556
1,2-Dichlorobenzene	U		0.00165	0.00567	1	09/16/2019 16:25	WG1346556
1,3-Dichlorobenzene	U		0.00193	0.00567	1	09/16/2019 16:25	WG1346556
1,4-Dichlorobenzene	U		0.00223	0.00567	1	09/16/2019 16:25	WG1346556
Dichlorodifluoromethane	U		0.000928	0.00284	1	09/16/2019 16:25	WG1346556
1,1-Dichloroethane	0.00317		0.000652	0.00284	1	09/16/2019 16:25	WG1346556
1,2-Dichloroethane	U		0.000539	0.00284	1	09/16/2019 16:25	WG1346556
1,1-Dichloroethene	0.000568 J	J	0.000567	0.00284	1	09/16/2019 16:25	WG1346556
cis-1,2-Dichloroethene	0.00142 J	J	0.000783	0.00284	1	09/16/2019 16:25	WG1346556
trans-1,2-Dichloroethene	U		0.00162	0.00567	1	09/16/2019 16:25	WG1346556
1,2-Dichloropropane	U		0.00144	0.00567	1	09/16/2019 16:25	WG1346556
1,1-Dichloropropene	U		0.000794	0.00284	1	09/16/2019 16:25	WG1346556
1,3-Dichloropropane	U		0.00199	0.00567	1	09/16/2019 16:25	WG1346556
cis-1,3-Dichloropropene	U		0.000769	0.00284	1	09/16/2019 16:25	WG1346556
trans-1,3-Dichloropropene	U		0.00174	0.00567	1	09/16/2019 16:25	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00159	0.00567	1	09/16/2019 16:25	WG1346556
2,2-Dichloropropane	U		0.000900	0.00284	1	09/16/2019 16:25	WG1346556
Di-isopropyl ether	U		0.000397	0.00113	1	09/16/2019 16:25	WG1346556
Ethylbenzene	U		0.000601	0.00284	1	09/16/2019 16:25	WG1346556
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	09/16/2019 16:25	WG1346556
2-Hexanone	U		0.0113	0.0284	1	09/16/2019 16:25	WG1346556
n-Hexane	0.00626		0.00120	0.00567	1	09/16/2019 16:25	WG1346556
Iodomethane	U		0.00686	0.0142	1	09/16/2019 16:25	WG1346556
Isopropylbenzene	U		0.000979	0.00284	1	09/16/2019 16:25	WG1346556
p-Isopropyltoluene	U		0.00264	0.00567	1	09/16/2019 16:25	WG1346556
2-Butanone (MEK)	U		0.0142	0.0284	1	09/16/2019 16:25	WG1346556
Methylene Chloride	0.0116 U	B J	0.00753	0.0284	1	09/16/2019 16:25	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0284	1	09/16/2019 16:25	WG1346556

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000335	0.00113	1	09/16/2019 16:25	WG1346556
Naphthalene	U		0.00354	0.0142	1	09/16/2019 16:25	WG1346556
n-Propylbenzene	U		0.00134	0.00567	1	09/16/2019 16:25	WG1346556
Styrene	U		0.00310	0.0142	1	09/16/2019 16:25	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000567	0.00284	1	09/16/2019 16:25	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000442	0.00284	1	09/16/2019 16:25	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000766	0.00284	1	09/16/2019 16:25	WG1346556
Tetrachloroethene	U		0.000794	0.00284	1	09/16/2019 16:25	WG1346556
Toluene	0.00791		0.00142	0.00567	1	09/16/2019 16:25	WG1346556
1,2,3-Trichlorobenzene	U		0.000709	0.00284	1	09/16/2019 16:25	WG1346556
1,2,4-Trichlorobenzene	U		0.00547	0.0142	1	09/16/2019 16:25	WG1346556
1,1,1-Trichloroethane	U		0.000312	0.00284	1	09/16/2019 16:25	WG1346556
1,1,2-Trichloroethane	U		0.00100	0.00284	1	09/16/2019 16:25	WG1346556
Trichloroethene	U		0.000454	0.00113	1	09/16/2019 16:25	WG1346556
Trichlorofluoromethane	0.00190 J	J	0.000567	0.00284	1	09/16/2019 16:25	WG1346556
1,2,3-Trichloropropane	U		0.00579	0.0142	1	09/16/2019 16:25	WG1346556
1,2,4-Trimethylbenzene	U		0.00132	0.00567	1	09/16/2019 16:25	WG1346556
1,2,3-Trimethylbenzene	U		0.00130	0.00567	1	09/16/2019 16:25	WG1346556
1,3,5-Trimethylbenzene	U		0.00123	0.00567	1	09/16/2019 16:25	WG1346556
Vinyl acetate	U		0.00399	0.0142	1	09/16/2019 16:25	WG1346556
Vinyl chloride	U		0.000775	0.00284	1	09/16/2019 16:25	WG1346556
Xylenes, Total	U		0.00542	0.00737	1	09/16/2019 16:25	WG1346556
(S) Toluene-d8	*102*			*75.0-131*		*09/16/2019 16:25*	WG1346556
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/16/2019 16:25*	WG1346556
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/16/2019 16:25*	WG1346556

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.1		1	09/17/2019 16:33	WG1347285

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0301		0.0152	0.0277	1	09/16/2019 16:46	WG1346556
Acrylonitrile	U		0.00211	0.0139	1	09/16/2019 16:46	WG1346556
Benzene	U		0.000444	0.00111	1	09/16/2019 16:46	WG1346556
Bromobenzene	U		0.00117	0.0139	1	09/16/2019 16:46	WG1346556
Bromodichloromethane	U		0.000874	0.00277	1	09/16/2019 16:46	WG1346556
Bromochloromethane	U		0.00125	0.00555	1	09/16/2019 16:46	WG1346556
Bromoform	U		0.00664	0.0277	1	09/16/2019 16:46	WG1346556
Bromomethane	U		0.00411	0.0139	1	09/16/2019 16:46	WG1346556
n-Butylbenzene	U		0.00426	0.0139	1	09/16/2019 16:46	WG1346556
sec-Butylbenzene	U		0.00281	0.0139	1	09/16/2019 16:46	WG1346556
tert-Butylbenzene	U		0.00172	0.00555	1	09/16/2019 16:46	WG1346556
Carbon disulfide	U		0.00450	0.0139	1	09/16/2019 16:46	WG1346556
Carbon tetrachloride	U		0.00120	0.00555	1	09/16/2019 16:46	WG1346556
Chlorobenzene	U		0.000636	0.00277	1	09/16/2019 16:46	WG1346556
Chlorodibromomethane	U		0.000499	0.00277	1	09/16/2019 16:46	WG1346556
Chloroethane	U		0.00120	0.00555	1	09/16/2019 16:46	WG1346556
Chloroform	0.000984 U	B J	0.000460	0.00277	1	09/16/2019 16:46	WG1346556
Chloromethane	U		0.00154	0.0139	1	09/16/2019 16:46	WG1346556
2-Chlorotoluene	U		0.00102	0.00277	1	09/16/2019 16:46	WG1346556
4-Chlorotoluene	U		0.00125	0.00555	1	09/16/2019 16:46	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00566	0.0277	1	09/16/2019 16:46	WG1346556
1,2-Dibromoethane	U		0.000583	0.00277	1	09/16/2019 16:46	WG1346556
Dibromomethane	U		0.00111	0.00555	1	09/16/2019 16:46	WG1346556
1,2-Dichlorobenzene	U		0.00161	0.00555	1	09/16/2019 16:46	WG1346556
1,3-Dichlorobenzene	U		0.00189	0.00555	1	09/16/2019 16:46	WG1346556
1,4-Dichlorobenzene	U		0.00219	0.00555	1	09/16/2019 16:46	WG1346556
Dichlorodifluoromethane	U		0.000908	0.00277	1	09/16/2019 16:46	WG1346556
1,1-Dichloroethane	U		0.000638	0.00277	1	09/16/2019 16:46	WG1346556
1,2-Dichloroethane	U		0.000527	0.00277	1	09/16/2019 16:46	WG1346556
1,1-Dichloroethene	U		0.000555	0.00277	1	09/16/2019 16:46	WG1346556
cis-1,2-Dichloroethene	U		0.000766	0.00277	1	09/16/2019 16:46	WG1346556
trans-1,2-Dichloroethene	U		0.00159	0.00555	1	09/16/2019 16:46	WG1346556
1,2-Dichloropropane	U		0.00141	0.00555	1	09/16/2019 16:46	WG1346556
1,1-Dichloropropene	U		0.000777	0.00277	1	09/16/2019 16:46	WG1346556
1,3-Dichloropropane	U		0.00194	0.00555	1	09/16/2019 16:46	WG1346556
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	09/16/2019 16:46	WG1346556
trans-1,3-Dichloropropene	U		0.00170	0.00555	1	09/16/2019 16:46	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00155	0.00555	1	09/16/2019 16:46	WG1346556
2,2-Dichloropropane	U		0.000880	0.00277	1	09/16/2019 16:46	WG1346556
Di-isopropyl ether	U		0.000388	0.00111	1	09/16/2019 16:46	WG1346556
Ethylbenzene	U		0.000588	0.00277	1	09/16/2019 16:46	WG1346556
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	09/16/2019 16:46	WG1346556
2-Hexanone	U		0.0111	0.0277	1	09/16/2019 16:46	WG1346556
n-Hexane	0.00285 J	J	0.00118	0.00555	1	09/16/2019 16:46	WG1346556
Iodomethane	U		0.00671	0.0139	1	09/16/2019 16:46	WG1346556
Isopropylbenzene	U		0.000958	0.00277	1	09/16/2019 16:46	WG1346556
p-Isopropyltoluene	U		0.00259	0.00555	1	09/16/2019 16:46	WG1346556
2-Butanone (MEK)	U		0.0139	0.0277	1	09/16/2019 16:46	WG1346556
Methylene Chloride	0.0125 U	B J	0.00737	0.0277	1	09/16/2019 16:46	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	09/16/2019 16:46	WG1346556

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	09/16/2019 16:46	WG1346556
Naphthalene	U		0.00346	0.0139	1	09/16/2019 16:46	WG1346556
n-Propylbenzene	U		0.00131	0.00555	1	09/16/2019 16:46	WG1346556
Styrene	U		0.00303	0.0139	1	09/16/2019 16:46	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000555	0.00277	1	09/16/2019 16:46	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000433	0.00277	1	09/16/2019 16:46	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000749	0.00277	1	09/16/2019 16:46	WG1346556
Tetrachloroethene	U		0.000777	0.00277	1	09/16/2019 16:46	WG1346556
Toluene	0.00612		0.00139	0.00555	1	09/16/2019 16:46	WG1346556
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	09/16/2019 16:46	WG1346556
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	09/16/2019 16:46	WG1346556
1,1,1-Trichloroethane	U		0.000305	0.00277	1	09/16/2019 16:46	WG1346556
1,1,2-Trichloroethane	U		0.000980	0.00277	1	09/16/2019 16:46	WG1346556
Trichloroethene	U		0.000444	0.00111	1	09/16/2019 16:46	WG1346556
Trichlorofluoromethane	U		0.000555	0.00277	1	09/16/2019 16:46	WG1346556
1,2,3-Trichloropropane	U		0.00566	0.0139	1	09/16/2019 16:46	WG1346556
1,2,4-Trimethylbenzene	U		0.00129	0.00555	1	09/16/2019 16:46	WG1346556
1,2,3-Trimethylbenzene	U		0.00128	0.00555	1	09/16/2019 16:46	WG1346556
1,3,5-Trimethylbenzene	U		0.00120	0.00555	1	09/16/2019 16:46	WG1346556
Vinyl acetate	U		0.00391	0.0139	1	09/16/2019 16:46	WG1346556
Vinyl chloride	U		0.000758	0.00277	1	09/16/2019 16:46	WG1346556
Xylenes, Total	U		0.00530	0.00721	1	09/16/2019 16:46	WG1346556
(S) Toluene-d8	*104*			*75.0-131*		*09/16/2019 16:46*	WG1346556
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/16/2019 16:46*	WG1346556
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/16/2019 16:46*	WG1346556

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.6		1	09/18/2019 12:38	WG1347340

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0212 U	J	0.0155	0.0282	1	09/16/2019 17:06	WG1346556
Acrylonitrile	U		0.00214	0.0141	1	09/16/2019 17:06	WG1346556
Benzene	U		0.000452	0.00113	1	09/16/2019 17:06	WG1346556
Bromobenzene	U		0.00119	0.0141	1	09/16/2019 17:06	WG1346556
Bromodichloromethane	U		0.000890	0.00282	1	09/16/2019 17:06	WG1346556
Bromochloromethane	U		0.00128	0.00564	1	09/16/2019 17:06	WG1346556
Bromoform	U		0.00675	0.0282	1	09/16/2019 17:06	WG1346556
Bromomethane	U		0.00418	0.0141	1	09/16/2019 17:06	WG1346556
n-Butylbenzene	U		0.00433	0.0141	1	09/16/2019 17:06	WG1346556
sec-Butylbenzene	U		0.00286	0.0141	1	09/16/2019 17:06	WG1346556
tert-Butylbenzene	U		0.00175	0.00564	1	09/16/2019 17:06	WG1346556
Carbon disulfide	U		0.00458	0.0141	1	09/16/2019 17:06	WG1346556
Carbon tetrachloride	U		0.00122	0.00564	1	09/16/2019 17:06	WG1346556
Chlorobenzene	U		0.000647	0.00282	1	09/16/2019 17:06	WG1346556
Chlorodibromomethane	U		0.000508	0.00282	1	09/16/2019 17:06	WG1346556
Chloroethane	U		0.00122	0.00564	1	09/16/2019 17:06	WG1346556
Chloroform	0.000694 U	B J	0.000468	0.00282	1	09/16/2019 17:06	WG1346556
Chloromethane	U		0.00157	0.0141	1	09/16/2019 17:06	WG1346556
2-Chlorotoluene	U		0.00104	0.00282	1	09/16/2019 17:06	WG1346556
4-Chlorotoluene	U		0.00128	0.00564	1	09/16/2019 17:06	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0282	1	09/16/2019 17:06	WG1346556
1,2-Dibromoethane	U		0.000593	0.00282	1	09/16/2019 17:06	WG1346556
Dibromomethane	U		0.00113	0.00564	1	09/16/2019 17:06	WG1346556
1,2-Dichlorobenzene	U		0.00164	0.00564	1	09/16/2019 17:06	WG1346556
1,3-Dichlorobenzene	U		0.00192	0.00564	1	09/16/2019 17:06	WG1346556
1,4-Dichlorobenzene	U		0.00222	0.00564	1	09/16/2019 17:06	WG1346556
Dichlorodifluoromethane	U		0.000923	0.00282	1	09/16/2019 17:06	WG1346556
1,1-Dichloroethane	U		0.000649	0.00282	1	09/16/2019 17:06	WG1346556
1,2-Dichloroethane	U		0.000536	0.00282	1	09/16/2019 17:06	WG1346556
1,1-Dichloroethene	U		0.000564	0.00282	1	09/16/2019 17:06	WG1346556
cis-1,2-Dichloroethene	U		0.000779	0.00282	1	09/16/2019 17:06	WG1346556
trans-1,2-Dichloroethene	U		0.00161	0.00564	1	09/16/2019 17:06	WG1346556
1,2-Dichloropropane	U		0.00143	0.00564	1	09/16/2019 17:06	WG1346556
1,1-Dichloropropene	U		0.000790	0.00282	1	09/16/2019 17:06	WG1346556
1,3-Dichloropropane	U		0.00198	0.00564	1	09/16/2019 17:06	WG1346556
cis-1,3-Dichloropropene	U		0.000765	0.00282	1	09/16/2019 17:06	WG1346556
trans-1,3-Dichloropropene	U		0.00173	0.00564	1	09/16/2019 17:06	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00158	0.00564	1	09/16/2019 17:06	WG1346556
2,2-Dichloropropane	U		0.000895	0.00282	1	09/16/2019 17:06	WG1346556
Di-isopropyl ether	U		0.000395	0.00113	1	09/16/2019 17:06	WG1346556
Ethylbenzene	U		0.000598	0.00282	1	09/16/2019 17:06	WG1346556
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	09/16/2019 17:06	WG1346556
2-Hexanone	U		0.0113	0.0282	1	09/16/2019 17:06	WG1346556
n-Hexane	0.00409 J	J	0.00120	0.00564	1	09/16/2019 17:06	WG1346556
Iodomethane	U		0.00683	0.0141	1	09/16/2019 17:06	WG1346556
Isopropylbenzene	U		0.000974	0.00282	1	09/16/2019 17:06	WG1346556
p-Isopropyltoluene	U		0.00263	0.00564	1	09/16/2019 17:06	WG1346556
2-Butanone (MEK)	U		0.0141	0.0282	1	09/16/2019 17:06	WG1346556
Methylene Chloride	0.0119 U	B J	0.00750	0.0282	1	09/16/2019 17:06	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	09/16/2019 17:06	WG1346556

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	09/16/2019 17:06	WG1346556
Naphthalene	U		0.00352	0.0141	1	09/16/2019 17:06	WG1346556
n-Propylbenzene	U		0.00133	0.00564	1	09/16/2019 17:06	WG1346556
Styrene	U		0.00308	0.0141	1	09/16/2019 17:06	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000564	0.00282	1	09/16/2019 17:06	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000440	0.00282	1	09/16/2019 17:06	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000762	0.00282	1	09/16/2019 17:06	WG1346556
Tetrachloroethene	U		0.000790	0.00282	1	09/16/2019 17:06	WG1346556
Toluene	0.00707		0.00141	0.00564	1	09/16/2019 17:06	WG1346556
1,2,3-Trichlorobenzene	U		0.000706	0.00282	1	09/16/2019 17:06	WG1346556
1,2,4-Trichlorobenzene	U		0.00544	0.0141	1	09/16/2019 17:06	WG1346556
1,1,1-Trichloroethane	U		0.000310	0.00282	1	09/16/2019 17:06	WG1346556
1,1,2-Trichloroethane	U		0.000997	0.00282	1	09/16/2019 17:06	WG1346556
Trichloroethene	U		0.000452	0.00113	1	09/16/2019 17:06	WG1346556
Trichlorofluoromethane	0.00170 J	J	0.000564	0.00282	1	09/16/2019 17:06	WG1346556
1,2,3-Trichloropropane	U		0.00576	0.0141	1	09/16/2019 17:06	WG1346556
1,2,4-Trimethylbenzene	U		0.00131	0.00564	1	09/16/2019 17:06	WG1346556
1,2,3-Trimethylbenzene	U		0.00130	0.00564	1	09/16/2019 17:06	WG1346556
1,3,5-Trimethylbenzene	U		0.00122	0.00564	1	09/16/2019 17:06	WG1346556
Vinyl acetate	U		0.00397	0.0141	1	09/16/2019 17:06	WG1346556
Vinyl chloride	U		0.000771	0.00282	1	09/16/2019 17:06	WG1346556
Xylenes, Total	U		0.00540	0.00734	1	09/16/2019 17:06	WG1346556
(S) Toluene-d8	*106*			*75.0-131*		*09/16/2019 17:06*	WG1346556
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/16/2019 17:06*	WG1346556
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*09/16/2019 17:06*	WG1346556

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.9		1	09/18/2019 12:38	WG1347340

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0202 U	J	0.0156	0.0284	1	09/16/2019 17:26	WG1346556
Acrylonitrile	U		0.00216	0.0142	1	09/16/2019 17:26	WG1346556
Benzene	U		0.000455	0.00114	1	09/16/2019 17:26	WG1346556
Bromobenzene	U		0.00119	0.0142	1	09/16/2019 17:26	WG1346556
Bromodichloromethane	U		0.000897	0.00284	1	09/16/2019 17:26	WG1346556
Bromochloromethane	U		0.00129	0.00569	1	09/16/2019 17:26	WG1346556
Bromoform	U		0.00681	0.0284	1	09/16/2019 17:26	WG1346556
Bromomethane	U		0.00421	0.0142	1	09/16/2019 17:26	WG1346556
n-Butylbenzene	U		0.00437	0.0142	1	09/16/2019 17:26	WG1346556
sec-Butylbenzene	U		0.00288	0.0142	1	09/16/2019 17:26	WG1346556
tert-Butylbenzene	U		0.00176	0.00569	1	09/16/2019 17:26	WG1346556
Carbon disulfide	U		0.00462	0.0142	1	09/16/2019 17:26	WG1346556
Carbon tetrachloride	U		0.00123	0.00569	1	09/16/2019 17:26	WG1346556
Chlorobenzene	U		0.000652	0.00284	1	09/16/2019 17:26	WG1346556
Chlorodibromomethane	U		0.000512	0.00284	1	09/16/2019 17:26	WG1346556
Chloroethane	U		0.00123	0.00569	1	09/16/2019 17:26	WG1346556
Chloroform	0.000542 U	B J	0.000472	0.00284	1	09/16/2019 17:26	WG1346556
Chloromethane	U		0.00158	0.0142	1	09/16/2019 17:26	WG1346556
2-Chlorotoluene	U		0.00105	0.00284	1	09/16/2019 17:26	WG1346556
4-Chlorotoluene	U		0.00129	0.00569	1	09/16/2019 17:26	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00580	0.0284	1	09/16/2019 17:26	WG1346556
1,2-Dibromoethane	U		0.000597	0.00284	1	09/16/2019 17:26	WG1346556
Dibromomethane	U		0.00114	0.00569	1	09/16/2019 17:26	WG1346556
1,2-Dichlorobenzene	U		0.00165	0.00569	1	09/16/2019 17:26	WG1346556
1,3-Dichlorobenzene	U		0.00193	0.00569	1	09/16/2019 17:26	WG1346556
1,4-Dichlorobenzene	U		0.00224	0.00569	1	09/16/2019 17:26	WG1346556
Dichlorodifluoromethane	U		0.000931	0.00284	1	09/16/2019 17:26	WG1346556
1,1-Dichloroethane	U		0.000654	0.00284	1	09/16/2019 17:26	WG1346556
1,2-Dichloroethane	U		0.000541	0.00284	1	09/16/2019 17:26	WG1346556
1,1-Dichloroethene	U		0.000569	0.00284	1	09/16/2019 17:26	WG1346556
cis-1,2-Dichloroethene	U		0.000785	0.00284	1	09/16/2019 17:26	WG1346556
trans-1,2-Dichloroethene	U		0.00163	0.00569	1	09/16/2019 17:26	WG1346556
1,2-Dichloropropane	U		0.00145	0.00569	1	09/16/2019 17:26	WG1346556
1,1-Dichloropropene	U		0.000797	0.00284	1	09/16/2019 17:26	WG1346556
1,3-Dichloropropane	U		0.00199	0.00569	1	09/16/2019 17:26	WG1346556
cis-1,3-Dichloropropene	U		0.000772	0.00284	1	09/16/2019 17:26	WG1346556
trans-1,3-Dichloropropene	U		0.00174	0.00569	1	09/16/2019 17:26	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00159	0.00569	1	09/16/2019 17:26	WG1346556
2,2-Dichloropropane	U		0.000902	0.00284	1	09/16/2019 17:26	WG1346556
Di-isopropyl ether	U		0.000398	0.00114	1	09/16/2019 17:26	WG1346556
Ethylbenzene	U		0.000603	0.00284	1	09/16/2019 17:26	WG1346556
Hexachloro-1,3-butadiene	U		0.0145	0.0284	1	09/16/2019 17:26	WG1346556
2-Hexanone	U		0.0114	0.0284	1	09/16/2019 17:26	WG1346556
n-Hexane	0.00485 J	J	0.00121	0.00569	1	09/16/2019 17:26	WG1346556
Iodomethane	U		0.00688	0.0142	1	09/16/2019 17:26	WG1346556
Isopropylbenzene	U		0.000982	0.00284	1	09/16/2019 17:26	WG1346556
p-Isopropyltoluene	U		0.00265	0.00569	1	09/16/2019 17:26	WG1346556
2-Butanone (MEK)	U		0.0142	0.0284	1	09/16/2019 17:26	WG1346556
Methylene Chloride	0.00847 U	B J	0.00756	0.0284	1	09/16/2019 17:26	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0284	1	09/16/2019 17:26	WG1346556

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MW-316-40

Collected date/time: 09/09/19 00:00

SAMPLE RESULTS - 08

L1138733

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000336	0.00114	1	09/16/2019 17:26	WG1346556
Naphthalene	U		0.00355	0.0142	1	09/16/2019 17:26	WG1346556
n-Propylbenzene	U		0.00134	0.00569	1	09/16/2019 17:26	WG1346556
Styrene	U		0.00311	0.0142	1	09/16/2019 17:26	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000569	0.00284	1	09/16/2019 17:26	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000444	0.00284	1	09/16/2019 17:26	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000768	0.00284	1	09/16/2019 17:26	WG1346556
Tetrachloroethene	U		0.000797	0.00284	1	09/16/2019 17:26	WG1346556
Toluene	0.00483 J	J	0.00142	0.00569	1	09/16/2019 17:26	WG1346556
1,2,3-Trichlorobenzene	U		0.000711	0.00284	1	09/16/2019 17:26	WG1346556
1,2,4-Trichlorobenzene	U		0.00549	0.0142	1	09/16/2019 17:26	WG1346556
1,1,1-Trichloroethane	U		0.000313	0.00284	1	09/16/2019 17:26	WG1346556
1,1,2-Trichloroethane	U		0.00100	0.00284	1	09/16/2019 17:26	WG1346556
Trichloroethene	U		0.000455	0.00114	1	09/16/2019 17:26	WG1346556
Trichlorofluoromethane	U		0.000569	0.00284	1	09/16/2019 17:26	WG1346556
1,2,3-Trichloropropane	U		0.00580	0.0142	1	09/16/2019 17:26	WG1346556
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	09/16/2019 17:26	WG1346556
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	09/16/2019 17:26	WG1346556
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	09/16/2019 17:26	WG1346556
Vinyl acetate	U		0.00401	0.0142	1	09/16/2019 17:26	WG1346556
Vinyl chloride	U		0.000777	0.00284	1	09/16/2019 17:26	WG1346556
Xylenes, Total	U		0.00544	0.00740	1	09/16/2019 17:26	WG1346556
(S) Toluene-d8	*109*			*75.0-131*		*09/16/2019 17:26*	WG1346556
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/16/2019 17:26*	WG1346556
(S) 1,2-Dichloroethane-d4	*97.9*			*70.0-130*		*09/16/2019 17:26*	WG1346556

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.9		1	09/18/2019 12:38	WG1347340

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0246 U	J	0.0152	0.0278	1	09/16/2019 17:47	WG1346556
Acrylonitrile	U		0.00211	0.0139	1	09/16/2019 17:47	WG1346556
Benzene	U		0.000445	0.00111	1	09/16/2019 17:47	WG1346556
Bromobenzene	U		0.00117	0.0139	1	09/16/2019 17:47	WG1346556
Bromodichloromethane	U		0.000876	0.00278	1	09/16/2019 17:47	WG1346556
Bromochloromethane	U		0.00126	0.00556	1	09/16/2019 17:47	WG1346556
Bromoform	U		0.00665	0.0278	1	09/16/2019 17:47	WG1346556
Bromomethane	U		0.00411	0.0139	1	09/16/2019 17:47	WG1346556
n-Butylbenzene	U		0.00427	0.0139	1	09/16/2019 17:47	WG1346556
sec-Butylbenzene	U		0.00281	0.0139	1	09/16/2019 17:47	WG1346556
tert-Butylbenzene	U		0.00172	0.00556	1	09/16/2019 17:47	WG1346556
Carbon disulfide	U		0.00451	0.0139	1	09/16/2019 17:47	WG1346556
Carbon tetrachloride	U		0.00120	0.00556	1	09/16/2019 17:47	WG1346556
Chlorobenzene	U		0.000637	0.00278	1	09/16/2019 17:47	WG1346556
Chlorodibromomethane	U		0.000500	0.00278	1	09/16/2019 17:47	WG1346556
Chloroethane	U		0.00120	0.00556	1	09/16/2019 17:47	WG1346556
Chloroform	U		0.000461	0.00278	1	09/16/2019 17:47	WG1346556
Chloromethane	U		0.00155	0.0139	1	09/16/2019 17:47	WG1346556
2-Chlorotoluene	U		0.00102	0.00278	1	09/16/2019 17:47	WG1346556
4-Chlorotoluene	U		0.00126	0.00556	1	09/16/2019 17:47	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00567	0.0278	1	09/16/2019 17:47	WG1346556
1,2-Dibromoethane	U		0.000584	0.00278	1	09/16/2019 17:47	WG1346556
Dibromomethane	U		0.00111	0.00556	1	09/16/2019 17:47	WG1346556
1,2-Dichlorobenzene	U		0.00161	0.00556	1	09/16/2019 17:47	WG1346556
1,3-Dichlorobenzene	U		0.00189	0.00556	1	09/16/2019 17:47	WG1346556
1,4-Dichlorobenzene	U		0.00219	0.00556	1	09/16/2019 17:47	WG1346556
Dichlorodifluoromethane	U		0.000910	0.00278	1	09/16/2019 17:47	WG1346556
1,1-Dichloroethane	U		0.000639	0.00278	1	09/16/2019 17:47	WG1346556
1,2-Dichloroethane	U		0.000528	0.00278	1	09/16/2019 17:47	WG1346556
1,1-Dichloroethene	U		0.000556	0.00278	1	09/16/2019 17:47	WG1346556
cis-1,2-Dichloroethene	U		0.000767	0.00278	1	09/16/2019 17:47	WG1346556
trans-1,2-Dichloroethene	U		0.00159	0.00556	1	09/16/2019 17:47	WG1346556
1,2-Dichloropropane	U		0.00141	0.00556	1	09/16/2019 17:47	WG1346556
1,1-Dichloropropene	U		0.000778	0.00278	1	09/16/2019 17:47	WG1346556
1,3-Dichloropropane	U		0.00195	0.00556	1	09/16/2019 17:47	WG1346556
cis-1,3-Dichloropropene	U		0.000754	0.00278	1	09/16/2019 17:47	WG1346556
trans-1,3-Dichloropropene	U		0.00170	0.00556	1	09/16/2019 17:47	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00156	0.00556	1	09/16/2019 17:47	WG1346556
2,2-Dichloropropane	U		0.000882	0.00278	1	09/16/2019 17:47	WG1346556
Di-isopropyl ether	U		0.000389	0.00111	1	09/16/2019 17:47	WG1346556
Ethylbenzene	U		0.000589	0.00278	1	09/16/2019 17:47	WG1346556
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	09/16/2019 17:47	WG1346556
2-Hexanone	U		0.0111	0.0278	1	09/16/2019 17:47	WG1346556
n-Hexane	0.00338 J	J	0.00118	0.00556	1	09/16/2019 17:47	WG1346556
Iodomethane	U		0.00673	0.0139	1	09/16/2019 17:47	WG1346556
Isopropylbenzene	U		0.000960	0.00278	1	09/16/2019 17:47	WG1346556
p-Isopropyltoluene	U		0.00259	0.00556	1	09/16/2019 17:47	WG1346556
2-Butanone (MEK)	U		0.0139	0.0278	1	09/16/2019 17:47	WG1346556
Methylene Chloride	0.0104 U	B J	0.00738	0.0278	1	09/16/2019 17:47	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	09/16/2019 17:47	WG1346556

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000328	0.00111	1	09/16/2019 17:47	WG1346556
Naphthalene	U		0.00347	0.0139	1	09/16/2019 17:47	WG1346556
n-Propylbenzene	U		0.00131	0.00556	1	09/16/2019 17:47	WG1346556
Styrene	U		0.00304	0.0139	1	09/16/2019 17:47	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000556	0.00278	1	09/16/2019 17:47	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	09/16/2019 17:47	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000751	0.00278	1	09/16/2019 17:47	WG1346556
Tetrachloroethene	U		0.000778	0.00278	1	09/16/2019 17:47	WG1346556
Toluene	0.00703		0.00139	0.00556	1	09/16/2019 17:47	WG1346556
1,2,3-Trichlorobenzene	U		0.000695	0.00278	1	09/16/2019 17:47	WG1346556
1,2,4-Trichlorobenzene	U		0.00536	0.0139	1	09/16/2019 17:47	WG1346556
1,1,1-Trichloroethane	U		0.000306	0.00278	1	09/16/2019 17:47	WG1346556
1,1,2-Trichloroethane	U		0.000982	0.00278	1	09/16/2019 17:47	WG1346556
Trichloroethene	U		0.000445	0.00111	1	09/16/2019 17:47	WG1346556
Trichlorofluoromethane	0.00156 J	J	0.000556	0.00278	1	09/16/2019 17:47	WG1346556
1,2,3-Trichloropropane	U		0.00567	0.0139	1	09/16/2019 17:47	WG1346556
1,2,4-Trimethylbenzene	U		0.00129	0.00556	1	09/16/2019 17:47	WG1346556
1,2,3-Trimethylbenzene	U		0.00128	0.00556	1	09/16/2019 17:47	WG1346556
1,3,5-Trimethylbenzene	U		0.00120	0.00556	1	09/16/2019 17:47	WG1346556
Vinyl acetate	U		0.00391	0.0139	1	09/16/2019 17:47	WG1346556
Vinyl chloride	U		0.000759	0.00278	1	09/16/2019 17:47	WG1346556
Xylenes, Total	U		0.00532	0.00723	1	09/16/2019 17:47	WG1346556
(S) Toluene-d8	*109*			*75.0-131*		*09/16/2019 17:47*	WG1346556
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/16/2019 17:47*	WG1346556
(S) 1,2-Dichloroethane-d4	*91.5*			*70.0-130*		*09/16/2019 17:47*	WG1346556

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.6		1	09/18/2019 12:38	WG1347340

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0273 U	J	0.0164	0.0299	1	09/16/2019 18:07	WG1346556
Acrylonitrile	U		0.00227	0.0150	1	09/16/2019 18:07	WG1346556
Benzene	U		0.000479	0.00120	1	09/16/2019 18:07	WG1346556
Bromobenzene	U		0.00126	0.0150	1	09/16/2019 18:07	WG1346556
Bromodichloromethane	U		0.000943	0.00299	1	09/16/2019 18:07	WG1346556
Bromochloromethane	U		0.00135	0.00598	1	09/16/2019 18:07	WG1346556
Bromoform	U		0.00716	0.0299	1	09/16/2019 18:07	WG1346556
Bromomethane	U		0.00443	0.0150	1	09/16/2019 18:07	WG1346556
n-Butylbenzene	U		0.00459	0.0150	1	09/16/2019 18:07	WG1346556
sec-Butylbenzene	U		0.00303	0.0150	1	09/16/2019 18:07	WG1346556
tert-Butylbenzene	U		0.00185	0.00598	1	09/16/2019 18:07	WG1346556
Carbon disulfide	U		0.00486	0.0150	1	09/16/2019 18:07	WG1346556
Carbon tetrachloride	U		0.00129	0.00598	1	09/16/2019 18:07	WG1346556
Chlorobenzene	U		0.000686	0.00299	1	09/16/2019 18:07	WG1346556
Chlorodibromomethane	U		0.000538	0.00299	1	09/16/2019 18:07	WG1346556
Chloroethane	U		0.00129	0.00598	1	09/16/2019 18:07	WG1346556
Chloroform	0.000850 U	B J	0.000497	0.00299	1	09/16/2019 18:07	WG1346556
Chloromethane	U		0.00166	0.0150	1	09/16/2019 18:07	WG1346556
2-Chlorotoluene	U		0.00110	0.00299	1	09/16/2019 18:07	WG1346556
4-Chlorotoluene	U		0.00135	0.00598	1	09/16/2019 18:07	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00610	0.0299	1	09/16/2019 18:07	WG1346556
1,2-Dibromoethane	U		0.000628	0.00299	1	09/16/2019 18:07	WG1346556
Dibromomethane	U		0.00120	0.00598	1	09/16/2019 18:07	WG1346556
1,2-Dichlorobenzene	U		0.00173	0.00598	1	09/16/2019 18:07	WG1346556
1,3-Dichlorobenzene	U		0.00203	0.00598	1	09/16/2019 18:07	WG1346556
1,4-Dichlorobenzene	U		0.00236	0.00598	1	09/16/2019 18:07	WG1346556
Dichlorodifluoromethane	U		0.000979	0.00299	1	09/16/2019 18:07	WG1346556
1,1-Dichloroethane	U		0.000688	0.00299	1	09/16/2019 18:07	WG1346556
1,2-Dichloroethane	U		0.000568	0.00299	1	09/16/2019 18:07	WG1346556
1,1-Dichloroethene	U		0.000598	0.00299	1	09/16/2019 18:07	WG1346556
cis-1,2-Dichloroethene	U		0.000826	0.00299	1	09/16/2019 18:07	WG1346556
trans-1,2-Dichloroethene	U		0.00171	0.00598	1	09/16/2019 18:07	WG1346556
1,2-Dichloropropane	U		0.00152	0.00598	1	09/16/2019 18:07	WG1346556
1,1-Dichloropropene	U		0.000838	0.00299	1	09/16/2019 18:07	WG1346556
1,3-Dichloropropane	U		0.00209	0.00598	1	09/16/2019 18:07	WG1346556
cis-1,3-Dichloropropene	U		0.000811	0.00299	1	09/16/2019 18:07	WG1346556
trans-1,3-Dichloropropene	U		0.00183	0.00598	1	09/16/2019 18:07	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00168	0.00598	1	09/16/2019 18:07	WG1346556
2,2-Dichloropropane	U		0.000949	0.00299	1	09/16/2019 18:07	WG1346556
Di-isopropyl ether	U		0.000419	0.00120	1	09/16/2019 18:07	WG1346556
Ethylbenzene	U		0.000634	0.00299	1	09/16/2019 18:07	WG1346556
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	09/16/2019 18:07	WG1346556
2-Hexanone	U		0.0120	0.0299	1	09/16/2019 18:07	WG1346556
n-Hexane	0.00718		0.00127	0.00598	1	09/16/2019 18:07	WG1346556
Iodomethane	U		0.00724	0.0150	1	09/16/2019 18:07	WG1346556
Isopropylbenzene	U		0.00103	0.00299	1	09/16/2019 18:07	WG1346556
p-Isopropyltoluene	U		0.00279	0.00598	1	09/16/2019 18:07	WG1346556
2-Butanone (MEK)	U		0.0150	0.0299	1	09/16/2019 18:07	WG1346556
Methylene Chloride	0.0176 U	B J	0.00794	0.0299	1	09/16/2019 18:07	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1	09/16/2019 18:07	WG1346556

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1	09/16/2019 18:07	WG1346556
Naphthalene	U		0.00373	0.0150	1	09/16/2019 18:07	WG1346556
n-Propylbenzene	U		0.00141	0.00598	1	09/16/2019 18:07	WG1346556
Styrene	U		0.00327	0.0150	1	09/16/2019 18:07	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000598	0.00299	1	09/16/2019 18:07	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000467	0.00299	1	09/16/2019 18:07	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000808	0.00299	1	09/16/2019 18:07	WG1346556
Tetrachloroethene	U		0.000838	0.00299	1	09/16/2019 18:07	WG1346556
Toluene	0.0112		0.00150	0.00598	1	09/16/2019 18:07	WG1346556
1,2,3-Trichlorobenzene	U		0.000748	0.00299	1	09/16/2019 18:07	WG1346556
1,2,4-Trichlorobenzene	U		0.00577	0.0150	1	09/16/2019 18:07	WG1346556
1,1,1-Trichloroethane	U		0.000329	0.00299	1	09/16/2019 18:07	WG1346556
1,1,2-Trichloroethane	U		0.00106	0.00299	1	09/16/2019 18:07	WG1346556
Trichloroethene	U		0.000479	0.00120	1	09/16/2019 18:07	WG1346556
Trichlorofluoromethane	0.00236 J	J	0.000598	0.00299	1	09/16/2019 18:07	WG1346556
1,2,3-Trichloropropane	U		0.00610	0.0150	1	09/16/2019 18:07	WG1346556
1,2,4-Trimethylbenzene	U		0.00139	0.00598	1	09/16/2019 18:07	WG1346556
1,2,3-Trimethylbenzene	U		0.00138	0.00598	1	09/16/2019 18:07	WG1346556
1,3,5-Trimethylbenzene	U		0.00129	0.00598	1	09/16/2019 18:07	WG1346556
Vinyl acetate	U		0.00421	0.0150	1	09/16/2019 18:07	WG1346556
Vinyl chloride	U		0.000817	0.00299	1	09/16/2019 18:07	WG1346556
Xylenes, Total	U		0.00572	0.00778	1	09/16/2019 18:07	WG1346556
(S) Toluene-d8	*106*			*75.0-131*		*09/16/2019 18:07*	WG1346556
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/16/2019 18:07*	WG1346556
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*09/16/2019 18:07*	WG1346556

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.3		1	09/18/2019 12:38	WG1347340

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0174 U	J	0.0155	0.0283	1	09/16/2019 18:28	WG1346556
Acrylonitrile	U		0.00215	0.0142	1	09/16/2019 18:28	WG1346556
Benzene	U		0.000453	0.00113	1	09/16/2019 18:28	WG1346556
Bromobenzene	U		0.00119	0.0142	1	09/16/2019 18:28	WG1346556
Bromodichloromethane	U		0.000892	0.00283	1	09/16/2019 18:28	WG1346556
Bromochloromethane	U		0.00128	0.00566	1	09/16/2019 18:28	WG1346556
Bromoform	U		0.00677	0.0283	1	09/16/2019 18:28	WG1346556
Bromomethane	U		0.00419	0.0142	1	09/16/2019 18:28	WG1346556
n-Butylbenzene	U		0.00435	0.0142	1	09/16/2019 18:28	WG1346556
sec-Butylbenzene	U		0.00287	0.0142	1	09/16/2019 18:28	WG1346556
tert-Butylbenzene	U		0.00176	0.00566	1	09/16/2019 18:28	WG1346556
Carbon disulfide	U		0.00460	0.0142	1	09/16/2019 18:28	WG1346556
Carbon tetrachloride	U		0.00122	0.00566	1	09/16/2019 18:28	WG1346556
Chlorobenzene	U		0.000649	0.00283	1	09/16/2019 18:28	WG1346556
Chlorodibromomethane	U		0.000510	0.00283	1	09/16/2019 18:28	WG1346556
Chloroethane	U		0.00122	0.00566	1	09/16/2019 18:28	WG1346556
Chloroform	0.000744 U	B J	0.000470	0.00283	1	09/16/2019 18:28	WG1346556
Chloromethane	U		0.00157	0.0142	1	09/16/2019 18:28	WG1346556
2-Chlorotoluene	U		0.00104	0.00283	1	09/16/2019 18:28	WG1346556
4-Chlorotoluene	U		0.00128	0.00566	1	09/16/2019 18:28	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00578	0.0283	1	09/16/2019 18:28	WG1346556
1,2-Dibromoethane	U		0.000595	0.00283	1	09/16/2019 18:28	WG1346556
Dibromomethane	U		0.00113	0.00566	1	09/16/2019 18:28	WG1346556
1,2-Dichlorobenzene	U		0.00164	0.00566	1	09/16/2019 18:28	WG1346556
1,3-Dichlorobenzene	U		0.00193	0.00566	1	09/16/2019 18:28	WG1346556
1,4-Dichlorobenzene	U		0.00223	0.00566	1	09/16/2019 18:28	WG1346556
Dichlorodifluoromethane	U		0.000926	0.00283	1	09/16/2019 18:28	WG1346556
1,1-Dichloroethane	U		0.000651	0.00283	1	09/16/2019 18:28	WG1346556
1,2-Dichloroethane	U		0.000538	0.00283	1	09/16/2019 18:28	WG1346556
1,1-Dichloroethene	U		0.000566	0.00283	1	09/16/2019 18:28	WG1346556
cis-1,2-Dichloroethene	U		0.000781	0.00283	1	09/16/2019 18:28	WG1346556
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	09/16/2019 18:28	WG1346556
1,2-Dichloropropane	U		0.00144	0.00566	1	09/16/2019 18:28	WG1346556
1,1-Dichloropropene	U		0.000793	0.00283	1	09/16/2019 18:28	WG1346556
1,3-Dichloropropane	U		0.00198	0.00566	1	09/16/2019 18:28	WG1346556
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	09/16/2019 18:28	WG1346556
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	09/16/2019 18:28	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00159	0.00566	1	09/16/2019 18:28	WG1346556
2,2-Dichloropropane	U		0.000898	0.00283	1	09/16/2019 18:28	WG1346556
Di-isopropyl ether	U		0.000396	0.00113	1	09/16/2019 18:28	WG1346556
Ethylbenzene	U		0.000600	0.00283	1	09/16/2019 18:28	WG1346556
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/16/2019 18:28	WG1346556
2-Hexanone	U		0.0113	0.0283	1	09/16/2019 18:28	WG1346556
n-Hexane	0.00267 J	J	0.00120	0.00566	1	09/16/2019 18:28	WG1346556
Iodomethane	U		0.00685	0.0142	1	09/16/2019 18:28	WG1346556
Isopropylbenzene	U		0.000977	0.00283	1	09/16/2019 18:28	WG1346556
p-Isopropyltoluene	U		0.00264	0.00566	1	09/16/2019 18:28	WG1346556
2-Butanone (MEK)	U		0.0142	0.0283	1	09/16/2019 18:28	WG1346556
Methylene Chloride	0.0121 U	B J	0.00752	0.0283	1	09/16/2019 18:28	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/16/2019 18:28	WG1346556

JC 10/24/19

MW-316-55

Collected date/time: 09/09/19 00:00

SAMPLE RESULTS - 11

L1138733

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	09/16/2019 18:28	WG1346556
Naphthalene	U		0.00353	0.0142	1	09/16/2019 18:28	WG1346556
n-Propylbenzene	U		0.00134	0.00566	1	09/16/2019 18:28	WG1346556
Styrene	U		0.00309	0.0142	1	09/16/2019 18:28	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	09/16/2019 18:28	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	09/16/2019 18:28	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	09/16/2019 18:28	WG1346556
Tetrachloroethene	U		0.000793	0.00283	1	09/16/2019 18:28	WG1346556
Toluene	0.00464 J	J	0.00142	0.00566	1	09/16/2019 18:28	WG1346556
1,2,3-Trichlorobenzene	U		0.000708	0.00283	1	09/16/2019 18:28	WG1346556
1,2,4-Trichlorobenzene	U		0.00546	0.0142	1	09/16/2019 18:28	WG1346556
1,1,1-Trichloroethane	U		0.000311	0.00283	1	09/16/2019 18:28	WG1346556
1,1,2-Trichloroethane	U		0.00100	0.00283	1	09/16/2019 18:28	WG1346556
Trichloroethene	U		0.000453	0.00113	1	09/16/2019 18:28	WG1346556
Trichlorofluoromethane	U		0.000566	0.00283	1	09/16/2019 18:28	WG1346556
1,2,3-Trichloropropane	U		0.00578	0.0142	1	09/16/2019 18:28	WG1346556
1,2,4-Trimethylbenzene	U		0.00131	0.00566	1	09/16/2019 18:28	WG1346556
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	09/16/2019 18:28	WG1346556
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	09/16/2019 18:28	WG1346556
Vinyl acetate	U		0.00399	0.0142	1	09/16/2019 18:28	WG1346556
Vinyl chloride	U		0.000774	0.00283	1	09/16/2019 18:28	WG1346556
Xylenes, Total	U		0.00541	0.00736	1	09/16/2019 18:28	WG1346556
(S) Toluene-d8	*105*			*75.0-131*		*09/16/2019 18:28*	WG1346556
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/16/2019 18:28*	WG1346556
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/16/2019 18:28*	WG1346556

JC 10/24/19

MW-316-60
Collected date/time: 09/09/19 00:00

SAMPLE RESULTS - 12

L1138733

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	09/18/2019 12:38	WG1347340

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0250 U	J	0.0154	0.0281	1	09/16/2019 18:48	WG1346556
Acrylonitrile	U		0.00214	0.0141	1	09/16/2019 18:48	WG1346556
Benzene	U		0.000450	0.00112	1	09/16/2019 18:48	WG1346556
Bromobenzene	U		0.00118	0.0141	1	09/16/2019 18:48	WG1346556
Bromodichloromethane	U		0.000886	0.00281	1	09/16/2019 18:48	WG1346556
Bromochloromethane	U		0.00127	0.00562	1	09/16/2019 18:48	WG1346556
Bromoform	U		0.00672	0.0281	1	09/16/2019 18:48	WG1346556
Bromomethane	U		0.00416	0.0141	1	09/16/2019 18:48	WG1346556
n-Butylbenzene	U		0.00432	0.0141	1	09/16/2019 18:48	WG1346556
sec-Butylbenzene	U		0.00284	0.0141	1	09/16/2019 18:48	WG1346556
tert-Butylbenzene	U		0.00174	0.00562	1	09/16/2019 18:48	WG1346556
Carbon disulfide	U		0.00456	0.0141	1	09/16/2019 18:48	WG1346556
Carbon tetrachloride	U		0.00121	0.00562	1	09/16/2019 18:48	WG1346556
Chlorobenzene	U		0.000644	0.00281	1	09/16/2019 18:48	WG1346556
Chlorodibromomethane	U		0.000506	0.00281	1	09/16/2019 18:48	WG1346556
Chloroethane	U		0.00121	0.00562	1	09/16/2019 18:48	WG1346556
Chloroform	U		0.000467	0.00281	1	09/16/2019 18:48	WG1346556
Chloromethane	U		0.00156	0.0141	1	09/16/2019 18:48	WG1346556
2-Chlorotoluene	U		0.00103	0.00281	1	09/16/2019 18:48	WG1346556
4-Chlorotoluene	U		0.00127	0.00562	1	09/16/2019 18:48	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	09/16/2019 18:48	WG1346556
1,2-Dibromoethane	U		0.000590	0.00281	1	09/16/2019 18:48	WG1346556
Dibromomethane	U		0.00112	0.00562	1	09/16/2019 18:48	WG1346556
1,2-Dichlorobenzene	U		0.00163	0.00562	1	09/16/2019 18:48	WG1346556
1,3-Dichlorobenzene	U		0.00191	0.00562	1	09/16/2019 18:48	WG1346556
1,4-Dichlorobenzene	U		0.00221	0.00562	1	09/16/2019 18:48	WG1346556
Dichlorodifluoromethane	U		0.000920	0.00281	1	09/16/2019 18:48	WG1346556
1,1-Dichloroethane	U		0.000646	0.00281	1	09/16/2019 18:48	WG1346556
1,2-Dichloroethane	U		0.000534	0.00281	1	09/16/2019 18:48	WG1346556
1,1-Dichloroethene	U		0.000562	0.00281	1	09/16/2019 18:48	WG1346556
cis-1,2-Dichloroethene	U		0.000776	0.00281	1	09/16/2019 18:48	WG1346556
trans-1,2-Dichloroethene	U		0.00161	0.00562	1	09/16/2019 18:48	WG1346556
1,2-Dichloropropane	U		0.00143	0.00562	1	09/16/2019 18:48	WG1346556
1,1-Dichloropropene	U		0.000787	0.00281	1	09/16/2019 18:48	WG1346556
1,3-Dichloropropane	U		0.00197	0.00562	1	09/16/2019 18:48	WG1346556
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	09/16/2019 18:48	WG1346556
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	09/16/2019 18:48	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	09/16/2019 18:48	WG1346556
2,2-Dichloropropane	U		0.000892	0.00281	1	09/16/2019 18:48	WG1346556
Di-isopropyl ether	U		0.000394	0.00112	1	09/16/2019 18:48	WG1346556
Ethylbenzene	U		0.000596	0.00281	1	09/16/2019 18:48	WG1346556
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	09/16/2019 18:48	WG1346556
2-Hexanone	U		0.0112	0.0281	1	09/16/2019 18:48	WG1346556
n-Hexane	0.00484 J	J	0.00119	0.00562	1	09/16/2019 18:48	WG1346556
Iodomethane	U		0.00680	0.0141	1	09/16/2019 18:48	WG1346556
Isopropylbenzene	U		0.000970	0.00281	1	09/16/2019 18:48	WG1346556
p-Isopropyltoluene	U		0.00262	0.00562	1	09/16/2019 18:48	WG1346556
2-Butanone (MEK)	U		0.0141	0.0281	1	09/16/2019 18:48	WG1346556
Methylene Chloride	0.0110 U	B J	0.00747	0.0281	1	09/16/2019 18:48	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	09/16/2019 18:48	WG1346556

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00112	1	09/16/2019 18:48	WG1346556
Naphthalene	U		0.00351	0.0141	1	09/16/2019 18:48	WG1346556
n-Propylbenzene	U		0.00133	0.00562	1	09/16/2019 18:48	WG1346556
Styrene	U		0.00307	0.0141	1	09/16/2019 18:48	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	09/16/2019 18:48	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	09/16/2019 18:48	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000759	0.00281	1	09/16/2019 18:48	WG1346556
Tetrachloroethene	U		0.000787	0.00281	1	09/16/2019 18:48	WG1346556
Toluene	0.00596		0.00141	0.00562	1	09/16/2019 18:48	WG1346556
1,2,3-Trichlorobenzene	U		0.000703	0.00281	1	09/16/2019 18:48	WG1346556
1,2,4-Trichlorobenzene	U		0.00542	0.0141	1	09/16/2019 18:48	WG1346556
1,1,1-Trichloroethane	U		0.000309	0.00281	1	09/16/2019 18:48	WG1346556
1,1,2-Trichloroethane	U		0.000993	0.00281	1	09/16/2019 18:48	WG1346556
Trichloroethene	U		0.000450	0.00112	1	09/16/2019 18:48	WG1346556
Trichlorofluoromethane	0.00162 J	J	0.000562	0.00281	1	09/16/2019 18:48	WG1346556
1,2,3-Trichloropropane	U		0.00573	0.0141	1	09/16/2019 18:48	WG1346556
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	09/16/2019 18:48	WG1346556
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	09/16/2019 18:48	WG1346556
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	09/16/2019 18:48	WG1346556
Vinyl acetate	U		0.00396	0.0141	1	09/16/2019 18:48	WG1346556
Vinyl chloride	U		0.000768	0.00281	1	09/16/2019 18:48	WG1346556
Xylenes, Total	U		0.00537	0.00731	1	09/16/2019 18:48	WG1346556
(S) Toluene-d8	*104*			*75.0-131*		*09/16/2019 18:48*	WG1346556
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/16/2019 18:48*	WG1346556
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*09/16/2019 18:48*	WG1346556

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.2		1	09/18/2019 12:38	WG1347340

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0243 U	J	0.0205	0.0374	1.32	09/16/2019 19:09	WG1346556
Acrylonitrile	U		0.00285	0.0187	1.32	09/16/2019 19:09	WG1346556
Benzene	U		0.000599	0.00150	1.32	09/16/2019 19:09	WG1346556
Bromobenzene	U		0.00158	0.0187	1.32	09/16/2019 19:09	WG1346556
Bromodichloromethane	U		0.00118	0.00374	1.32	09/16/2019 19:09	WG1346556
Bromochloromethane	U		0.00169	0.00748	1.32	09/16/2019 19:09	WG1346556
Bromoform	U		0.00895	0.0374	1.32	09/16/2019 19:09	WG1346556
Bromomethane	U		0.00553	0.0187	1.32	09/16/2019 19:09	WG1346556
n-Butylbenzene	U		0.00575	0.0187	1.32	09/16/2019 19:09	WG1346556
sec-Butylbenzene	U		0.00379	0.0187	1.32	09/16/2019 19:09	WG1346556
tert-Butylbenzene	U		0.00232	0.00748	1.32	09/16/2019 19:09	WG1346556
Carbon disulfide	U		0.00608	0.0187	1.32	09/16/2019 19:09	WG1346556
Carbon tetrachloride	U		0.00161	0.00748	1.32	09/16/2019 19:09	WG1346556
Chlorobenzene	U		0.000857	0.00374	1.32	09/16/2019 19:09	WG1346556
Chlorodibromomethane	U		0.000673	0.00374	1.32	09/16/2019 19:09	WG1346556
Chloroethane	U		0.00161	0.00748	1.32	09/16/2019 19:09	WG1346556
Chloroform	0.00140 U	B J	0.000621	0.00374	1.32	09/16/2019 19:09	WG1346556
Chloromethane	U		0.00207	0.0187	1.32	09/16/2019 19:09	WG1346556
2-Chlorotoluene	U		0.00137	0.00374	1.32	09/16/2019 19:09	WG1346556
4-Chlorotoluene	U		0.00169	0.00748	1.32	09/16/2019 19:09	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00763	0.0374	1.32	09/16/2019 19:09	WG1346556
1,2-Dibromoethane	U		0.000786	0.00374	1.32	09/16/2019 19:09	WG1346556
Dibromomethane	U		0.00150	0.00748	1.32	09/16/2019 19:09	WG1346556
1,2-Dichlorobenzene	U		0.00217	0.00748	1.32	09/16/2019 19:09	WG1346556
1,3-Dichlorobenzene	U		0.00254	0.00748	1.32	09/16/2019 19:09	WG1346556
1,4-Dichlorobenzene	U		0.00295	0.00748	1.32	09/16/2019 19:09	WG1346556
Dichlorodifluoromethane	U		0.00122	0.00374	1.32	09/16/2019 19:09	WG1346556
1,1-Dichloroethane	U		0.000861	0.00374	1.32	09/16/2019 19:09	WG1346556
1,2-Dichloroethane	U		0.000711	0.00374	1.32	09/16/2019 19:09	WG1346556
1,1-Dichloroethene	U		0.000748	0.00374	1.32	09/16/2019 19:09	WG1346556
cis-1,2-Dichloroethene	U		0.00103	0.00374	1.32	09/16/2019 19:09	WG1346556
trans-1,2-Dichloroethene	U		0.00214	0.00748	1.32	09/16/2019 19:09	WG1346556
1,2-Dichloropropane	U		0.00190	0.00748	1.32	09/16/2019 19:09	WG1346556
1,1-Dichloropropene	U		0.00105	0.00374	1.32	09/16/2019 19:09	WG1346556
1,3-Dichloropropane	U		0.00262	0.00748	1.32	09/16/2019 19:09	WG1346556
cis-1,3-Dichloropropene	U		0.00101	0.00374	1.32	09/16/2019 19:09	WG1346556
trans-1,3-Dichloropropene	U		0.00229	0.00748	1.32	09/16/2019 19:09	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00210	0.00748	1.32	09/16/2019 19:09	WG1346556
2,2-Dichloropropane	U		0.00119	0.00374	1.32	09/16/2019 19:09	WG1346556
Di-isopropyl ether	U		0.000524	0.00150	1.32	09/16/2019 19:09	WG1346556
Ethylbenzene	U		0.000794	0.00374	1.32	09/16/2019 19:09	WG1346556
Hexachloro-1,3-butadiene	U		0.0190	0.0374	1.32	09/16/2019 19:09	WG1346556
2-Hexanone	U		0.0150	0.0374	1.32	09/16/2019 19:09	WG1346556
n-Hexane	0.00602 J	J	0.00159	0.00748	1.32	09/16/2019 19:09	WG1346556
Iodomethane	U		0.00906	0.0187	1.32	09/16/2019 19:09	WG1346556
Isopropylbenzene	U		0.00129	0.00374	1.32	09/16/2019 19:09	WG1346556
p-Isopropyltoluene	U		0.00349	0.00748	1.32	09/16/2019 19:09	WG1346556
2-Butanone (MEK)	U		0.0187	0.0374	1.32	09/16/2019 19:09	WG1346556
Methylene Chloride	0.0209 U	B J	0.00993	0.0374	1.32	09/16/2019 19:09	WG1346556 JC 10/24/19
4-Methyl-2-pentanone (MIBK)	U		0.0150	0.0374	1.32	09/16/2019 19:09	WG1346556

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000441	0.00150	1.32	09/16/2019 19:09	WG1346556
Naphthalene	U		0.00467	0.0187	1.32	09/16/2019 19:09	WG1346556
n-Propylbenzene	U		0.00177	0.00748	1.32	09/16/2019 19:09	WG1346556
Styrene	U		0.00408	0.0187	1.32	09/16/2019 19:09	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000748	0.00374	1.32	09/16/2019 19:09	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000584	0.00374	1.32	09/16/2019 19:09	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.00101	0.00374	1.32	09/16/2019 19:09	WG1346556
Tetrachloroethene	U		0.00105	0.00374	1.32	09/16/2019 19:09	WG1346556
Toluene	0.0131		0.00187	0.00748	1.32	09/16/2019 19:09	WG1346556
1,2,3-Trichlorobenzene	U		0.000935	0.00374	1.32	09/16/2019 19:09	WG1346556
1,2,4-Trichlorobenzene	U		0.00721	0.0187	1.32	09/16/2019 19:09	WG1346556
1,1,1-Trichloroethane	U		0.000412	0.00374	1.32	09/16/2019 19:09	WG1346556
1,1,2-Trichloroethane	U		0.00132	0.00374	1.32	09/16/2019 19:09	WG1346556
Trichloroethene	U		0.000599	0.00150	1.32	09/16/2019 19:09	WG1346556
Trichlorofluoromethane	0.00346 J	J	0.000748	0.00374	1.32	09/16/2019 19:09	WG1346556
1,2,3-Trichloropropane	U		0.00763	0.0187	1.32	09/16/2019 19:09	WG1346556
1,2,4-Trimethylbenzene	U		0.00173	0.00748	1.32	09/16/2019 19:09	WG1346556
1,2,3-Trimethylbenzene	U		0.00172	0.00748	1.32	09/16/2019 19:09	WG1346556
1,3,5-Trimethylbenzene	U		0.00161	0.00748	1.32	09/16/2019 19:09	WG1346556
Vinyl acetate	U		0.00527	0.0187	1.32	09/16/2019 19:09	WG1346556
Vinyl chloride	U		0.00102	0.00374	1.32	09/16/2019 19:09	WG1346556
Xylenes, Total	U		0.00715	0.00973	1.32	09/16/2019 19:09	WG1346556
(S) Toluene-d8	*109*			*75.0-131*		*09/16/2019 19:09*	WG1346556
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/16/2019 19:09*	WG1346556
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*		*09/16/2019 19:09*	WG1346556

JC 10/24/19

MW-316-70

Collected date/time: 09/10/19 00:00

SAMPLE RESULTS - 14

L1138733

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.4		1	09/18/2019 12:38	WG1347340

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0392		0.0155	0.0283	1	09/16/2019 19:29	WG1346556
Acrylonitrile	U		0.00215	0.0141	1	09/16/2019 19:29	WG1346556
Benzene	U		0.000453	0.00113	1	09/16/2019 19:29	WG1346556
Bromobenzene	U		0.00119	0.0141	1	09/16/2019 19:29	WG1346556
Bromodichloromethane	U		0.000892	0.00283	1	09/16/2019 19:29	WG1346556
Bromochloromethane	U		0.00128	0.00566	1	09/16/2019 19:29	WG1346556
Bromoform	U		0.00677	0.0283	1	09/16/2019 19:29	WG1346556
Bromomethane	U		0.00419	0.0141	1	09/16/2019 19:29	WG1346556
n-Butylbenzene	U		0.00435	0.0141	1	09/16/2019 19:29	WG1346556
sec-Butylbenzene	U		0.00286	0.0141	1	09/16/2019 19:29	WG1346556
tert-Butylbenzene	U		0.00175	0.00566	1	09/16/2019 19:29	WG1346556
Carbon disulfide	U		0.00459	0.0141	1	09/16/2019 19:29	WG1346556
Carbon tetrachloride	U		0.00122	0.00566	1	09/16/2019 19:29	WG1346556
Chlorobenzene	U		0.000648	0.00283	1	09/16/2019 19:29	WG1346556
Chlorodibromomethane	U		0.000509	0.00283	1	09/16/2019 19:29	WG1346556
Chloroethane	U		0.00122	0.00566	1	09/16/2019 19:29	WG1346556
Chloroform	0.00103 U	B J	0.000470	0.00283	1	09/16/2019 19:29	WG1346556
Chloromethane	U		0.00157	0.0141	1	09/16/2019 19:29	WG1346556
2-Chlorotoluene	U		0.00104	0.00283	1	09/16/2019 19:29	WG1346556
4-Chlorotoluene	U		0.00128	0.00566	1	09/16/2019 19:29	WG1346556
1,2-Dibromo-3-Chloropropane	U		0.00577	0.0283	1	09/16/2019 19:29	WG1346556
1,2-Dibromoethane	U		0.000594	0.00283	1	09/16/2019 19:29	WG1346556
Dibromomethane	U		0.00113	0.00566	1	09/16/2019 19:29	WG1346556
1,2-Dichlorobenzene	U		0.00164	0.00566	1	09/16/2019 19:29	WG1346556
1,3-Dichlorobenzene	U		0.00192	0.00566	1	09/16/2019 19:29	WG1346556
1,4-Dichlorobenzene	U		0.00223	0.00566	1	09/16/2019 19:29	WG1346556
Dichlorodifluoromethane	U		0.000926	0.00283	1	09/16/2019 19:29	WG1346556
1,1-Dichloroethane	U		0.000651	0.00283	1	09/16/2019 19:29	WG1346556
1,2-Dichloroethane	U		0.000538	0.00283	1	09/16/2019 19:29	WG1346556
1,1-Dichloroethene	U		0.000566	0.00283	1	09/16/2019 19:29	WG1346556
cis-1,2-Dichloroethene	U		0.000781	0.00283	1	09/16/2019 19:29	WG1346556
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	09/16/2019 19:29	WG1346556
1,2-Dichloropropane	U		0.00144	0.00566	1	09/16/2019 19:29	WG1346556
1,1-Dichloropropene	U		0.000792	0.00283	1	09/16/2019 19:29	WG1346556
1,3-Dichloropropane	U		0.00198	0.00566	1	09/16/2019 19:29	WG1346556
cis-1,3-Dichloropropene	U		0.000767	0.00283	1	09/16/2019 19:29	WG1346556
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	09/16/2019 19:29	WG1346556
trans-1,4-Dichloro-2-butene	U		0.00158	0.00566	1	09/16/2019 19:29	WG1346556
2,2-Dichloropropane	U		0.000897	0.00283	1	09/16/2019 19:29	WG1346556
Di-isopropyl ether	U		0.000396	0.00113	1	09/16/2019 19:29	WG1346556
Ethylbenzene	U		0.000600	0.00283	1	09/16/2019 19:29	WG1346556
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/16/2019 19:29	WG1346556
2-Hexanone	U		0.0113	0.0283	1	09/16/2019 19:29	WG1346556
n-Hexane	0.00431 J	J	0.00120	0.00566	1	09/16/2019 19:29	WG1346556
Iodomethane	U		0.00685	0.0141	1	09/16/2019 19:29	WG1346556
Isopropylbenzene	U		0.000977	0.00283	1	09/16/2019 19:29	WG1346556
p-Isopropyltoluene	U		0.00264	0.00566	1	09/16/2019 19:29	WG1346556
2-Butanone (MEK)	U		0.0141	0.0283	1	09/16/2019 19:29	WG1346556
Methylene Chloride	0.0125 U	B J	0.00751	0.0283	1	09/16/2019 19:29	WG1346556
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/16/2019 19:29	WG1346556

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	09/16/2019 19:29	WG1346556
Naphthalene	U		0.00353	0.0141	1	09/16/2019 19:29	WG1346556
n-Propylbenzene	U		0.00134	0.00566	1	09/16/2019 19:29	WG1346556
Styrene	U		0.00309	0.0141	1	09/16/2019 19:29	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	09/16/2019 19:29	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	09/16/2019 19:29	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	09/16/2019 19:29	WG1346556
Tetrachloroethene	U		0.000792	0.00283	1	09/16/2019 19:29	WG1346556
Toluene	0.00694		0.00141	0.00566	1	09/16/2019 19:29	WG1346556
1,2,3-Trichlorobenzene	U		0.000707	0.00283	1	09/16/2019 19:29	WG1346556
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	09/16/2019 19:29	WG1346556
1,1,1-Trichloroethane	U		0.000311	0.00283	1	09/16/2019 19:29	WG1346556
1,1,2-Trichloroethane	U		0.000999	0.00283	1	09/16/2019 19:29	WG1346556
Trichloroethene	U		0.000453	0.00113	1	09/16/2019 19:29	WG1346556
Trichlorofluoromethane	0.00167 J	J	0.000566	0.00283	1	09/16/2019 19:29	WG1346556
1,2,3-Trichloropropane	U		0.00577	0.0141	1	09/16/2019 19:29	WG1346556
1,2,4-Trimethylbenzene	U		0.00131	0.00566	1	09/16/2019 19:29	WG1346556
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	09/16/2019 19:29	WG1346556
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	09/16/2019 19:29	WG1346556
Vinyl acetate	U		0.00398	0.0141	1	09/16/2019 19:29	WG1346556
Vinyl chloride	U		0.000773	0.00283	1	09/16/2019 19:29	WG1346556
Xylenes, Total	U		0.00541	0.00736	1	09/16/2019 19:29	WG1346556
(S) Toluene-d8	*104*			*75.0-131*		*09/16/2019 19:29*	WG1346556
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/16/2019 19:29*	WG1346556
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/16/2019 19:29*	WG1346556

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.4		1	09/18/2019 12:38	WG1347340

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0474		0.0162	0.0296	1	09/16/2019 19:50	WG1346556	
Acrylonitrile	U		0.00225	0.0148	1	09/16/2019 19:50	WG1346556	
Benzene	U		0.000474	0.00118	1	09/16/2019 19:50	WG1346556	
Bromobenzene	U		0.00124	0.0148	1	09/16/2019 19:50	WG1346556	
Bromodichloromethane	U		0.000933	0.00296	1	09/16/2019 19:50	WG1346556	
Bromochloromethane	U		0.00134	0.00592	1	09/16/2019 19:50	WG1346556	
Bromoform	U		0.00708	0.0296	1	09/16/2019 19:50	WG1346556	
Bromomethane	U		0.00438	0.0148	1	09/16/2019 19:50	WG1346556	
n-Butylbenzene	U		0.00455	0.0148	1	09/16/2019 19:50	WG1346556	
sec-Butylbenzene	U		0.00300	0.0148	1	09/16/2019 19:50	WG1346556	
tert-Butylbenzene	U		0.00184	0.00592	1	09/16/2019 19:50	WG1346556	
Carbon disulfide	U		0.00481	0.0148	1	09/16/2019 19:50	WG1346556	
Carbon tetrachloride	U		0.00128	0.00592	1	09/16/2019 19:50	WG1346556	
Chlorobenzene	U		0.000679	0.00296	1	09/16/2019 19:50	WG1346556	
Chlorodibromomethane	U		0.000533	0.00296	1	09/16/2019 19:50	WG1346556	
Chloroethane	U		0.00128	0.00592	1	09/16/2019 19:50	WG1346556	
Chloroform	0.000801 U	B J	0.000491	0.00296	1	09/16/2019 19:50	WG1346556	
Chloromethane	U		0.00165	0.0148	1	09/16/2019 19:50	WG1346556	
2-Chlorotoluene	U		0.00109	0.00296	1	09/16/2019 19:50	WG1346556	
4-Chlorotoluene	U		0.00134	0.00592	1	09/16/2019 19:50	WG1346556	
1,2-Dibromo-3-Chloropropane	U		0.00604	0.0296	1	09/16/2019 19:50	WG1346556	
1,2-Dibromoethane	U		0.000622	0.00296	1	09/16/2019 19:50	WG1346556	
Dibromomethane	U		0.00118	0.00592	1	09/16/2019 19:50	WG1346556	
1,2-Dichlorobenzene	U		0.00172	0.00592	1	09/16/2019 19:50	WG1346556	
1,3-Dichlorobenzene	U		0.00201	0.00592	1	09/16/2019 19:50	WG1346556	
1,4-Dichlorobenzene	U		0.00233	0.00592	1	09/16/2019 19:50	WG1346556	
Dichlorodifluoromethane	U		0.000969	0.00296	1	09/16/2019 19:50	WG1346556	
1,1-Dichloroethane	U		0.000681	0.00296	1	09/16/2019 19:50	WG1346556	
1,2-Dichloroethane	U		0.000563	0.00296	1	09/16/2019 19:50	WG1346556	
1,1-Dichloroethene	U		0.000592	0.00296	1	09/16/2019 19:50	WG1346556	
cis-1,2-Dichloroethene	U		0.000817	0.00296	1	09/16/2019 19:50	WG1346556	
trans-1,2-Dichloroethene	U		0.00169	0.00592	1	09/16/2019 19:50	WG1346556	
1,2-Dichloropropane	U		0.00150	0.00592	1	09/16/2019 19:50	WG1346556	
1,1-Dichloropropene	U		0.000829	0.00296	1	09/16/2019 19:50	WG1346556	
1,3-Dichloropropane	U		0.00207	0.00592	1	09/16/2019 19:50	WG1346556	
cis-1,3-Dichloropropene	U		0.000803	0.00296	1	09/16/2019 19:50	WG1346556	
trans-1,3-Dichloropropene	U		0.00181	0.00592	1	09/16/2019 19:50	WG1346556	
trans-1,4-Dichloro-2-butene	U		0.00166	0.00592	1	09/16/2019 19:50	WG1346556	
2,2-Dichloropropane	U		0.000939	0.00296	1	09/16/2019 19:50	WG1346556	
Di-isopropyl ether	U		0.000415	0.00118	1	09/16/2019 19:50	WG1346556	
Ethylbenzene	U		0.000628	0.00296	1	09/16/2019 19:50	WG1346556	
Hexachloro-1,3-butadiene	U		0.0150	0.0296	1	09/16/2019 19:50	WG1346556	
2-Hexanone	U		0.0118	0.0296	1	09/16/2019 19:50	WG1346556	
n-Hexane	0.00357 J	J	0.00126	0.00592	1	09/16/2019 19:50	WG1346556	
Iodomethane	U		0.00717	0.0148	1	09/16/2019 19:50	WG1346556	
Isopropylbenzene	U		0.00102	0.00296	1	09/16/2019 19:50	WG1346556	
p-Isopropyltoluene	U		0.00276	0.00592	1	09/16/2019 19:50	WG1346556	
2-Butanone (MEK)	U		0.0148	0.0296	1	09/16/2019 19:50	WG1346556	
Methylene Chloride	0.0137 U	B J	0.00786	0.0296	1	09/16/2019 19:50	WG1346556	JC 10/24/19
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0296	1	09/16/2019 19:50	WG1346556	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000349	0.00118	1	09/16/2019 19:50	WG1346556
Naphthalene	U		0.00370	0.0148	1	09/16/2019 19:50	WG1346556
n-Propylbenzene	U		0.00140	0.00592	1	09/16/2019 19:50	WG1346556
Styrene	U		0.00323	0.0148	1	09/16/2019 19:50	WG1346556
1,1,1,2-Tetrachloroethane	U		0.000592	0.00296	1	09/16/2019 19:50	WG1346556
1,1,2,2-Tetrachloroethane	U		0.000462	0.00296	1	09/16/2019 19:50	WG1346556
1,1,2-Trichlorotrifluoroethane	U		0.000799	0.00296	1	09/16/2019 19:50	WG1346556
Tetrachloroethene	U		0.000829	0.00296	1	09/16/2019 19:50	WG1346556
Toluene	0.00811		0.00148	0.00592	1	09/16/2019 19:50	WG1346556
1,2,3-Trichlorobenzene	U		0.000740	0.00296	1	09/16/2019 19:50	WG1346556
1,2,4-Trichlorobenzene	U		0.00571	0.0148	1	09/16/2019 19:50	WG1346556
1,1,1-Trichloroethane	U		0.000326	0.00296	1	09/16/2019 19:50	WG1346556
1,1,2-Trichloroethane	U		0.00105	0.00296	1	09/16/2019 19:50	WG1346556
Trichloroethene	U		0.000474	0.00118	1	09/16/2019 19:50	WG1346556
Trichlorofluoromethane	U		0.000592	0.00296	1	09/16/2019 19:50	WG1346556
1,2,3-Trichloropropane	U		0.00604	0.0148	1	09/16/2019 19:50	WG1346556
1,2,4-Trimethylbenzene	U		0.00137	0.00592	1	09/16/2019 19:50	WG1346556
1,2,3-Trimethylbenzene	U		0.00136	0.00592	1	09/16/2019 19:50	WG1346556
1,3,5-Trimethylbenzene	U		0.00128	0.00592	1	09/16/2019 19:50	WG1346556
Vinyl acetate	U		0.00417	0.0148	1	09/16/2019 19:50	WG1346556
Vinyl chloride	U		0.000809	0.00296	1	09/16/2019 19:50	WG1346556
Xylenes, Total	U		0.00566	0.00770	1	09/16/2019 19:50	WG1346556
(S) Toluene-d8	*105*			*75.0-131*		*09/16/2019 19:50*	WG1346556
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/16/2019 19:50*	WG1346556
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/16/2019 19:50*	WG1346556

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.35	J J0	1.05	25.0	1	09/17/2019 00:16	WG1346797
Acrylonitrile	U		0.873	5.00	1	09/17/2019 00:16	WG1346797
Benzene	U		0.0896	0.500	1	09/17/2019 00:16	WG1346797
Bromobenzene	U		0.133	0.500	1	09/17/2019 00:16	WG1346797
Bromodichloromethane	U		0.0800	0.500	1	09/17/2019 00:16	WG1346797
Bromochloromethane	U		0.145	0.500	1	09/17/2019 00:16	WG1346797
Bromoform	U		0.186	0.500	1	09/17/2019 00:16	WG1346797
Bromomethane	U		0.157	2.50	1	09/17/2019 00:16	WG1346797
n-Butylbenzene	U		0.143	0.500	1	09/17/2019 00:16	WG1346797
sec-Butylbenzene	U		0.134	0.500	1	09/17/2019 00:16	WG1346797
tert-Butylbenzene	U		0.183	0.500	1	09/17/2019 00:16	WG1346797
Carbon disulfide	U		0.101	0.500	1	09/17/2019 00:16	WG1346797
Carbon tetrachloride	U		0.159	0.500	1	09/17/2019 00:16	WG1346797
Chlorobenzene	U		0.140	0.500	1	09/17/2019 00:16	WG1346797
Chlorodibromomethane	U		0.128	0.500	1	09/17/2019 00:16	WG1346797
Chloroethane	U		0.141	2.50	1	09/17/2019 00:16	WG1346797
Chloroform	U		0.0860	0.500	1	09/17/2019 00:16	WG1346797
Chloromethane	U		0.153	1.25	1	09/17/2019 00:16	WG1346797
2-Chlorotoluene	U		0.111	0.500	1	09/17/2019 00:16	WG1346797
4-Chlorotoluene	U		0.0972	0.500	1	09/17/2019 00:16	WG1346797
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/17/2019 00:16	WG1346797
1,2-Dibromoethane	U		0.193	0.500	1	09/17/2019 00:16	WG1346797
Dibromomethane	U		0.117	0.500	1	09/17/2019 00:16	WG1346797
1,2-Dichlorobenzene	U		0.101	0.500	1	09/17/2019 00:16	WG1346797
1,3-Dichlorobenzene	U		0.130	0.500	1	09/17/2019 00:16	WG1346797
1,4-Dichlorobenzene	U		0.121	0.500	1	09/17/2019 00:16	WG1346797
Dichlorodifluoromethane	U		0.127	2.50	1	09/17/2019 00:16	WG1346797
1,1-Dichloroethane	U		0.114	0.500	1	09/17/2019 00:16	WG1346797
1,2-Dichloroethane	U		0.108	0.500	1	09/17/2019 00:16	WG1346797
1,1-Dichloroethene	U		0.188	0.500	1	09/17/2019 00:16	WG1346797
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/17/2019 00:16	WG1346797
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/17/2019 00:16	WG1346797
1,2-Dichloropropane	U		0.190	0.500	1	09/17/2019 00:16	WG1346797
1,1-Dichloropropene	U		0.128	0.500	1	09/17/2019 00:16	WG1346797
1,3-Dichloropropane	U		0.147	1.00	1	09/17/2019 00:16	WG1346797
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/17/2019 00:16	WG1346797
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/17/2019 00:16	WG1346797
trans-1,4-Dichloro-2-butene	U	J0	0.257	5.00	1	09/17/2019 00:16	WG1346797
2,2-Dichloropropane	U		0.0929	0.500	1	09/17/2019 00:16	WG1346797
Di-isopropyl ether	U		0.0924	0.500	1	09/17/2019 00:16	WG1346797
Ethylbenzene	U		0.158	0.500	1	09/17/2019 00:16	WG1346797
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/17/2019 00:16	WG1346797
2-Hexanone	U		0.757	5.00	1	09/17/2019 00:16	WG1346797
n-Hexane	U		0.305	5.00	1	09/17/2019 00:16	WG1346797
Iodomethane	U		0.377	10.0	1	09/17/2019 00:16	WG1346797
Isopropylbenzene	U		0.126	0.500	1	09/17/2019 00:16	WG1346797
p-Isopropyltoluene	U		0.138	0.500	1	09/17/2019 00:16	WG1346797
2-Butanone (MEK)	U		1.28	5.00	1	09/17/2019 00:16	WG1346797
Methylene Chloride	U		1.07	2.50	1	09/17/2019 00:16	WG1346797
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/17/2019 00:16	WG1346797
Methyl tert-butyl ether	U		0.102	0.500	1	09/17/2019 00:16	WG1346797
Naphthalene	U		0.174	2.50	1	09/17/2019 00:16	WG1346797
n-Propylbenzene	U		0.162	0.500	1	09/17/2019 00:16	WG1346797
Styrene	U		0.117	0.500	1	09/17/2019 00:16	WG1346797
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/17/2019 00:16	WG1346797
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/17/2019 00:16	WG1346797

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/17/2019 00:16	WG1346797
Tetrachloroethene	U		0.199	0.500	1	09/17/2019 00:16	WG1346797
Toluene	U		0.412	0.500	1	09/17/2019 00:16	WG1346797
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/17/2019 00:16	WG1346797
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/17/2019 00:16	WG1346797
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/17/2019 00:16	WG1346797
1,1,2-Trichloroethane	U		0.186	0.500	1	09/17/2019 00:16	WG1346797
Trichloroethene	U		0.153	0.500	1	09/17/2019 00:16	WG1346797
Trichlorofluoromethane	U		0.130	2.50	1	09/17/2019 00:16	WG1346797
1,2,3-Trichloropropane	U		0.247	2.50	1	09/17/2019 00:16	WG1346797
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/17/2019 00:16	WG1346797
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/17/2019 00:16	WG1346797
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/17/2019 00:16	WG1346797
Vinyl acetate	U		0.645	5.00	1	09/17/2019 00:16	WG1346797
Vinyl chloride	U		0.118	0.500	1	09/17/2019 00:16	WG1346797
Xylenes, Total	U		0.316	1.50	1	09/17/2019 00:16	WG1346797
(S) Toluene-d8	*104*			*80.0-120*		*09/17/2019 00:16*	WG1346797
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*09/17/2019 00:16*	WG1346797
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/17/2019 00:16*	WG1346797

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.69	J J0	1.05	25.0	1	09/14/2019 12:14	WG1345728
Acrylonitrile	U		0.873	5.00	1	09/14/2019 12:14	WG1345728
Benzene	U		0.0896	0.500	1	09/14/2019 12:14	WG1345728
Bromobenzene	U		0.133	0.500	1	09/14/2019 12:14	WG1345728
Bromodichloromethane	U		0.0800	0.500	1	09/14/2019 12:14	WG1345728
Bromochloromethane	U		0.145	0.500	1	09/14/2019 12:14	WG1345728
Bromoform	U		0.186	0.500	1	09/14/2019 12:14	WG1345728
Bromomethane	U		0.157	2.50	1	09/14/2019 12:14	WG1345728
n-Butylbenzene	U		0.143	0.500	1	09/14/2019 12:14	WG1345728
sec-Butylbenzene	U		0.134	0.500	1	09/14/2019 12:14	WG1345728
tert-Butylbenzene	U		0.183	0.500	1	09/14/2019 12:14	WG1345728
Carbon disulfide	U		0.101	0.500	1	09/14/2019 12:14	WG1345728
Carbon tetrachloride	U		0.159	0.500	1	09/14/2019 12:14	WG1345728
Chlorobenzene	U		0.140	0.500	1	09/14/2019 12:14	WG1345728
Chlorodibromomethane	U		0.128	0.500	1	09/14/2019 12:14	WG1345728
Chloroethane	U		0.141	2.50	1	09/14/2019 12:14	WG1345728
Chloroform	U		0.0860	0.500	1	09/14/2019 12:14	WG1345728
Chloromethane	U		0.153	1.25	1	09/14/2019 12:14	WG1345728
2-Chlorotoluene	U		0.111	0.500	1	09/14/2019 12:14	WG1345728
4-Chlorotoluene	U		0.0972	0.500	1	09/14/2019 12:14	WG1345728
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/14/2019 12:14	WG1345728
1,2-Dibromoethane	U		0.193	0.500	1	09/14/2019 12:14	WG1345728
Dibromomethane	U		0.117	0.500	1	09/14/2019 12:14	WG1345728
1,2-Dichlorobenzene	U		0.101	0.500	1	09/14/2019 12:14	WG1345728
1,3-Dichlorobenzene	U		0.130	0.500	1	09/14/2019 12:14	WG1345728
1,4-Dichlorobenzene	U		0.121	0.500	1	09/14/2019 12:14	WG1345728
Dichlorodifluoromethane	U		0.127	2.50	1	09/14/2019 12:14	WG1345728
1,1-Dichloroethane	U		0.114	0.500	1	09/14/2019 12:14	WG1345728
1,2-Dichloroethane	U		0.108	0.500	1	09/14/2019 12:14	WG1345728
1,1-Dichloroethene	U		0.188	0.500	1	09/14/2019 12:14	WG1345728
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/14/2019 12:14	WG1345728
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/14/2019 12:14	WG1345728
1,2-Dichloropropane	U		0.190	0.500	1	09/14/2019 12:14	WG1345728
1,1-Dichloropropene	U		0.128	0.500	1	09/14/2019 12:14	WG1345728
1,3-Dichloropropane	U		0.147	1.00	1	09/14/2019 12:14	WG1345728
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/14/2019 12:14	WG1345728
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/14/2019 12:14	WG1345728
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/14/2019 12:14	WG1345728
2,2-Dichloropropane	U		0.0929	0.500	1	09/14/2019 12:14	WG1345728
Di-isopropyl ether	U		0.0924	0.500	1	09/14/2019 12:14	WG1345728
Ethylbenzene	U		0.158	0.500	1	09/14/2019 12:14	WG1345728
Hexachloro-1,3-butadiene	U	J0	0.157	1.00	1	09/14/2019 12:14	WG1345728
2-Hexanone	U		0.757	5.00	1	09/14/2019 12:14	WG1345728
n-Hexane	U		0.305	5.00	1	09/14/2019 12:14	WG1345728
Iodomethane	U		0.377	10.0	1	09/14/2019 12:14	WG1345728
Isopropylbenzene	U		0.126	0.500	1	09/14/2019 12:14	WG1345728
p-Isopropyltoluene	U		0.138	0.500	1	09/14/2019 12:14	WG1345728
2-Butanone (MEK)	U		1.28	5.00	1	09/14/2019 12:14	WG1345728
Methylene Chloride	U		1.07	2.50	1	09/14/2019 12:14	WG1345728
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/14/2019 12:14	WG1345728
Methyl tert-butyl ether	U		0.102	0.500	1	09/14/2019 12:14	WG1345728
Naphthalene	U	J0	0.174	2.50	1	09/14/2019 12:14	WG1345728
n-Propylbenzene	U		0.162	0.500	1	09/14/2019 12:14	WG1345728
Styrene	U		0.117	0.500	1	09/14/2019 12:14	WG1345728
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/14/2019 12:14	WG1345728
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/14/2019 12:14	WG1345728

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/14/2019 12:14	WG1345728
Tetrachloroethene	0.218	B J	0.199	0.500	1	09/14/2019 12:14	WG1345728
Toluene	U		0.412	0.500	1	09/14/2019 12:14	WG1345728
1,2,3-Trichlorobenzene	U	J0	0.164	0.500	1	09/14/2019 12:14	WG1345728
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/14/2019 12:14	WG1345728
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/14/2019 12:14	WG1345728
1,1,2-Trichloroethane	U		0.186	0.500	1	09/14/2019 12:14	WG1345728
Trichloroethene	U		0.153	0.500	1	09/14/2019 12:14	WG1345728
Trichlorofluoromethane	U		0.130	2.50	1	09/14/2019 12:14	WG1345728
1,2,3-Trichloropropane	U		0.247	2.50	1	09/14/2019 12:14	WG1345728
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/14/2019 12:14	WG1345728
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/14/2019 12:14	WG1345728
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/14/2019 12:14	WG1345728
Vinyl acetate	U		0.645	5.00	1	09/14/2019 12:14	WG1345728
Vinyl chloride	U		0.118	0.500	1	09/14/2019 12:14	WG1345728
Xylenes, Total	U		0.316	1.50	1	09/14/2019 12:14	WG1345728
(S) Toluene-d8	*102*			*80.0-120*		*09/14/2019 12:14*	WG1345728
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*09/14/2019 12:14*	WG1345728
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/14/2019 12:14*	WG1345728

JC 10/24/19

MW-200I-95
Collected date/time: 09/10/19 09:10

SAMPLE RESULTS - 02

L1138822

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.7		1	09/18/2019 13:06	WG1347348

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0188	U	J J0 J3	0.0156	0.0285	1	09/17/2019 15:20	WG1347115
Acrylonitrile	U			0.00217	0.0143	1	09/17/2019 15:20	WG1347115
Benzene	U			0.000456	0.00114	1	09/17/2019 15:20	WG1347115
Bromobenzene	U			0.00120	0.0143	1	09/17/2019 15:20	WG1347115
Bromodichloromethane	U			0.000899	0.00285	1	09/17/2019 15:20	WG1347115
Bromochloromethane	U			0.00129	0.00570	1	09/17/2019 15:20	WG1347115
Bromoform	U			0.00682	0.0285	1	09/17/2019 15:20	WG1347115
Bromomethane	U			0.00422	0.0143	1	09/17/2019 15:20	WG1347115
n-Butylbenzene	U			0.00438	0.0143	1	09/17/2019 15:20	WG1347115
sec-Butylbenzene	U			0.00289	0.0143	1	09/17/2019 15:20	WG1347115
tert-Butylbenzene	U			0.00177	0.00570	1	09/17/2019 15:20	WG1347115
Carbon disulfide	U			0.00463	0.0143	1	09/17/2019 15:20	WG1347115
Carbon tetrachloride	U			0.00123	0.00570	1	09/17/2019 15:20	WG1347115
Chlorobenzene	U			0.000654	0.00285	1	09/17/2019 15:20	WG1347115
Chlorodibromomethane	U			0.000513	0.00285	1	09/17/2019 15:20	WG1347115
Chloroethane	U			0.00123	0.00570	1	09/17/2019 15:20	WG1347115
Chloroform	U			0.000473	0.00285	1	09/17/2019 15:20	WG1347115
Chloromethane	U			0.00159	0.0143	1	09/17/2019 15:20	WG1347115
2-Chlorotoluene	U			0.00105	0.00285	1	09/17/2019 15:20	WG1347115
4-Chlorotoluene	U			0.00129	0.00570	1	09/17/2019 15:20	WG1347115
1,2-Dibromo-3-Chloropropane	U			0.00582	0.0285	1	09/17/2019 15:20	WG1347115
1,2-Dibromoethane	U			0.000599	0.00285	1	09/17/2019 15:20	WG1347115
Dibromomethane	U			0.00114	0.00570	1	09/17/2019 15:20	WG1347115
1,2-Dichlorobenzene	U			0.00165	0.00570	1	09/17/2019 15:20	WG1347115
1,3-Dichlorobenzene	U			0.00194	0.00570	1	09/17/2019 15:20	WG1347115
1,4-Dichlorobenzene	U			0.00225	0.00570	1	09/17/2019 15:20	WG1347115
Dichlorodifluoromethane	U			0.000933	0.00285	1	09/17/2019 15:20	WG1347115
1,1-Dichloroethane	U			0.000656	0.00285	1	09/17/2019 15:20	WG1347115
1,2-Dichloroethane	U			0.000542	0.00285	1	09/17/2019 15:20	WG1347115
1,1-Dichloroethene	U			0.000570	0.00285	1	09/17/2019 15:20	WG1347115
cis-1,2-Dichloroethene	U			0.000787	0.00285	1	09/17/2019 15:20	WG1347115
trans-1,2-Dichloroethene	U			0.00163	0.00570	1	09/17/2019 15:20	WG1347115
1,2-Dichloropropane	U			0.00145	0.00570	1	09/17/2019 15:20	WG1347115
1,1-Dichloropropene	U			0.000798	0.00285	1	09/17/2019 15:20	WG1347115
1,3-Dichloropropane	U			0.00200	0.00570	1	09/17/2019 15:20	WG1347115
cis-1,3-Dichloropropene	U			0.000773	0.00285	1	09/17/2019 15:20	WG1347115
trans-1,3-Dichloropropene	U			0.00175	0.00570	1	09/17/2019 15:20	WG1347115
trans-1,4-Dichloro-2-butene	U			0.00160	0.00570	1	09/17/2019 15:20	WG1347115
2,2-Dichloropropane	U			0.000905	0.00285	1	09/17/2019 15:20	WG1347115
Di-isopropyl ether	U			0.000399	0.00114	1	09/17/2019 15:20	WG1347115
Ethylbenzene	0.000891	J	J	0.000605	0.00285	1	09/17/2019 15:20	WG1347115
Hexachloro-1,3-butadiene	U			0.0145	0.0285	1	09/17/2019 15:20	WG1347115
2-Hexanone	U			0.0114	0.0285	1	09/17/2019 15:20	WG1347115
n-Hexane	0.00489	J	J	0.00121	0.00570	1	09/17/2019 15:20	WG1347115
Iodomethane	U			0.00690	0.0143	1	09/17/2019 15:20	WG1347115
Isopropylbenzene	U			0.000984	0.00285	1	09/17/2019 15:20	WG1347115
p-Isopropyltoluene	U			0.00266	0.00570	1	09/17/2019 15:20	WG1347115
2-Butanone (MEK)	0.0147	J	J	0.0143	0.0285	1	09/17/2019 15:20	WG1347115
Methylene Chloride	U			0.00757	0.0285	1	09/17/2019 15:20	WG1347115
4-Methyl-2-pentanone (MIBK)	U			0.0114	0.0285	1	09/17/2019 15:20	WG1347115

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000336	0.00114	1	09/17/2019 15:20	WG1347115
Naphthalene	U		0.00356	0.0143	1	09/17/2019 15:20	WG1347115
n-Propylbenzene	U		0.00135	0.00570	1	09/17/2019 15:20	WG1347115
Styrene	0.0102 J	J	0.00311	0.0143	1	09/17/2019 15:20	WG1347115
1,1,1,2-Tetrachloroethane	U		0.000570	0.00285	1	09/17/2019 15:20	WG1347115
1,1,2,2-Tetrachloroethane	U		0.000445	0.00285	1	09/17/2019 15:20	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.000770	0.00285	1	09/17/2019 15:20	WG1347115
Tetrachloroethene	U		0.000798	0.00285	1	09/17/2019 15:20	WG1347115
Toluene	0.00797		0.00143	0.00570	1	09/17/2019 15:20	WG1347115
1,2,3-Trichlorobenzene	U		0.000713	0.00285	1	09/17/2019 15:20	WG1347115
1,2,4-Trichlorobenzene	U		0.00550	0.0143	1	09/17/2019 15:20	WG1347115
1,1,1-Trichloroethane	U		0.000314	0.00285	1	09/17/2019 15:20	WG1347115
1,1,2-Trichloroethane	U		0.00101	0.00285	1	09/17/2019 15:20	WG1347115
Trichloroethene	U		0.000456	0.00114	1	09/17/2019 15:20	WG1347115
Trichlorofluoromethane	U		0.000570	0.00285	1	09/17/2019 15:20	WG1347115
1,2,3-Trichloropropane	U		0.00582	0.0143	1	09/17/2019 15:20	WG1347115
1,2,4-Trimethylbenzene	U		0.00132	0.00570	1	09/17/2019 15:20	WG1347115
1,2,3-Trimethylbenzene	U		0.00131	0.00570	1	09/17/2019 15:20	WG1347115
1,3,5-Trimethylbenzene	U		0.00123	0.00570	1	09/17/2019 15:20	WG1347115
Vinyl acetate	U		0.00401	0.0143	1	09/17/2019 15:20	WG1347115
Vinyl chloride	U		0.000779	0.00285	1	09/17/2019 15:20	WG1347115
Xylenes, Total	U		0.00545	0.00741	1	09/17/2019 15:20	WG1347115
(S) Toluene-d8	*109*			*75.0-131*		*09/17/2019 15:20*	WG1347115
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*09/17/2019 15:20*	WG1347115
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*09/17/2019 15:20*	WG1347115

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.7		1	09/18/2019 13:06	WG1347348

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0283 J	J0 J3	0.0151	0.0275	1	09/17/2019 15:40	WG1347115
Acrylonitrile	U		0.00209	0.0138	1	09/17/2019 15:40	WG1347115
Benzene	0.00274		0.000441	0.00110	1	09/17/2019 15:40	WG1347115
Bromobenzene	U		0.00116	0.0138	1	09/17/2019 15:40	WG1347115
Bromodichloromethane	U		0.000868	0.00275	1	09/17/2019 15:40	WG1347115
Bromochloromethane	U		0.00125	0.00551	1	09/17/2019 15:40	WG1347115
Bromoform	U		0.00659	0.0275	1	09/17/2019 15:40	WG1347115
Bromomethane	U		0.00408	0.0138	1	09/17/2019 15:40	WG1347115
n-Butylbenzene	U		0.00423	0.0138	1	09/17/2019 15:40	WG1347115
sec-Butylbenzene	U		0.00279	0.0138	1	09/17/2019 15:40	WG1347115
tert-Butylbenzene	U		0.00171	0.00551	1	09/17/2019 15:40	WG1347115
Carbon disulfide	U		0.00447	0.0138	1	09/17/2019 15:40	WG1347115
Carbon tetrachloride	U		0.00119	0.00551	1	09/17/2019 15:40	WG1347115
Chlorobenzene	U		0.000631	0.00275	1	09/17/2019 15:40	WG1347115
Chlorodibromomethane	U		0.000496	0.00275	1	09/17/2019 15:40	WG1347115
Chloroethane	U		0.00119	0.00551	1	09/17/2019 15:40	WG1347115
Chloroform	U		0.000457	0.00275	1	09/17/2019 15:40	WG1347115
Chloromethane	U		0.00153	0.0138	1	09/17/2019 15:40	WG1347115
2-Chlorotoluene	U		0.00101	0.00275	1	09/17/2019 15:40	WG1347115
4-Chlorotoluene	U		0.00125	0.00551	1	09/17/2019 15:40	WG1347115
1,2-Dibromo-3-Chloropropane	U		0.00562	0.0275	1	09/17/2019 15:40	WG1347115
1,2-Dibromoethane	U		0.000579	0.00275	1	09/17/2019 15:40	WG1347115
Dibromomethane	U		0.00110	0.00551	1	09/17/2019 15:40	WG1347115
1,2-Dichlorobenzene	U		0.00160	0.00551	1	09/17/2019 15:40	WG1347115
1,3-Dichlorobenzene	U		0.00187	0.00551	1	09/17/2019 15:40	WG1347115
1,4-Dichlorobenzene	U		0.00217	0.00551	1	09/17/2019 15:40	WG1347115
Dichlorodifluoromethane	U		0.000901	0.00275	1	09/17/2019 15:40	WG1347115
1,1-Dichloroethane	U		0.000634	0.00275	1	09/17/2019 15:40	WG1347115
1,2-Dichloroethane	U		0.000523	0.00275	1	09/17/2019 15:40	WG1347115
1,1-Dichloroethene	U		0.000551	0.00275	1	09/17/2019 15:40	WG1347115
cis-1,2-Dichloroethene	U		0.000760	0.00275	1	09/17/2019 15:40	WG1347115
trans-1,2-Dichloroethene	U		0.00158	0.00551	1	09/17/2019 15:40	WG1347115
1,2-Dichloropropane	U		0.00140	0.00551	1	09/17/2019 15:40	WG1347115
1,1-Dichloropropene	U		0.000771	0.00275	1	09/17/2019 15:40	WG1347115
1,3-Dichloropropane	U		0.00193	0.00551	1	09/17/2019 15:40	WG1347115
cis-1,3-Dichloropropene	U		0.000747	0.00275	1	09/17/2019 15:40	WG1347115
trans-1,3-Dichloropropene	U		0.00169	0.00551	1	09/17/2019 15:40	WG1347115
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	09/17/2019 15:40	WG1347115
2,2-Dichloropropane	U		0.000874	0.00275	1	09/17/2019 15:40	WG1347115
Di-isopropyl ether	U		0.000386	0.00110	1	09/17/2019 15:40	WG1347115
Ethylbenzene	0.00213 J	J	0.000584	0.00275	1	09/17/2019 15:40	WG1347115
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	09/17/2019 15:40	WG1347115
2-Hexanone	U		0.0110	0.0275	1	09/17/2019 15:40	WG1347115
n-Hexane	0.00634		0.00117	0.00551	1	09/17/2019 15:40	WG1347115
Iodomethane	U		0.00667	0.0138	1	09/17/2019 15:40	WG1347115
Isopropylbenzene	U		0.000951	0.00275	1	09/17/2019 15:40	WG1347115
p-Isopropyltoluene	U		0.00257	0.00551	1	09/17/2019 15:40	WG1347115
2-Butanone (MEK)	U		0.0138	0.0275	1	09/17/2019 15:40	WG1347115
Methylene Chloride	0.00943 J	J	0.00732	0.0275	1	09/17/2019 15:40	WG1347115
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	09/17/2019 15:40	WG1347115

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	09/17/2019 15:40	WG1347115
Naphthalene	0.00452	J J	0.00344	0.0138	1	09/17/2019 15:40	WG1347115
n-Propylbenzene	U		0.00130	0.00551	1	09/17/2019 15:40	WG1347115
Styrene	U		0.00301	0.0138	1	09/17/2019 15:40	WG1347115
1,1,1,2-Tetrachloroethane	U		0.000551	0.00275	1	09/17/2019 15:40	WG1347115
1,1,2,2-Tetrachloroethane	U		0.000430	0.00275	1	09/17/2019 15:40	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00275	1	09/17/2019 15:40	WG1347115
Tetrachloroethene	U		0.000771	0.00275	1	09/17/2019 15:40	WG1347115
Toluene	0.00961		0.00138	0.00551	1	09/17/2019 15:40	WG1347115
1,2,3-Trichlorobenzene	U		0.000689	0.00275	1	09/17/2019 15:40	WG1347115
1,2,4-Trichlorobenzene	U		0.00531	0.0138	1	09/17/2019 15:40	WG1347115
1,1,1-Trichloroethane	U		0.000303	0.00275	1	09/17/2019 15:40	WG1347115
1,1,2-Trichloroethane	U		0.000973	0.00275	1	09/17/2019 15:40	WG1347115
Trichloroethene	U		0.000441	0.00110	1	09/17/2019 15:40	WG1347115
Trichlorofluoromethane	0.00358		0.000551	0.00275	1	09/17/2019 15:40	WG1347115
1,2,3-Trichloropropane	U		0.00562	0.0138	1	09/17/2019 15:40	WG1347115
1,2,4-Trimethylbenzene	0.00325	J J	0.00128	0.00551	1	09/17/2019 15:40	WG1347115
1,2,3-Trimethylbenzene	0.00216	J	0.00127	0.00551	1	09/17/2019 15:40	WG1347115
1,3,5-Trimethylbenzene	0.00151	J	0.00119	0.00551	1	09/17/2019 15:40	WG1347115
Vinyl acetate	U		0.00388	0.0138	1	09/17/2019 15:40	WG1347115
Vinyl chloride	U		0.000753	0.00275	1	09/17/2019 15:40	WG1347115
Xylenes, Total	0.00846		0.00527	0.00716	1	09/17/2019 15:40	WG1347115
(S) Toluene-d8	*105*			*75.0-131*		*09/17/2019 15:40*	WG1347115
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/17/2019 15:40*	WG1347115
(S) 1,2-Dichloroethane-d4	*95.7*			*70.0-130*		*09/17/2019 15:40*	WG1347115

JC 10/24/19

MW-326-10
Collected date/time: 09/09/19 10:50

SAMPLE RESULTS - 04

L1138822

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.7		1	09/18/2019 13:06	WG1347348

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0420 J	J0 J3	0.0183	0.0333	1.18	09/17/2019 16:01	WG1347115
Acrylonitrile	U		0.00253	0.0166	1.18	09/17/2019 16:01	WG1347115
Benzene	U		0.000532	0.00133	1.18	09/17/2019 16:01	WG1347115
Bromobenzene	U		0.00140	0.0166	1.18	09/17/2019 16:01	WG1347115
Bromodichloromethane	U		0.00105	0.00333	1.18	09/17/2019 16:01	WG1347115
Bromochloromethane	U		0.00150	0.00665	1.18	09/17/2019 16:01	WG1347115
Bromoform	U		0.00796	0.0333	1.18	09/17/2019 16:01	WG1347115
Bromomethane	U		0.00493	0.0166	1.18	09/17/2019 16:01	WG1347115
n-Butylbenzene	U		0.00511	0.0166	1.18	09/17/2019 16:01	WG1347115
sec-Butylbenzene	U		0.00336	0.0166	1.18	09/17/2019 16:01	WG1347115
tert-Butylbenzene	U		0.00206	0.00665	1.18	09/17/2019 16:01	WG1347115
Carbon disulfide	U		0.00540	0.0166	1.18	09/17/2019 16:01	WG1347115
Carbon tetrachloride	U		0.00143	0.00665	1.18	09/17/2019 16:01	WG1347115
Chlorobenzene	U		0.000762	0.00333	1.18	09/17/2019 16:01	WG1347115
Chlorodibromomethane	U		0.000599	0.00333	1.18	09/17/2019 16:01	WG1347115
Chloroethane	U		0.00143	0.00665	1.18	09/17/2019 16:01	WG1347115
Chloroform	U		0.000553	0.00333	1.18	09/17/2019 16:01	WG1347115
Chloromethane	U		0.00185	0.0166	1.18	09/17/2019 16:01	WG1347115
2-Chlorotoluene	U		0.00122	0.00333	1.18	09/17/2019 16:01	WG1347115
4-Chlorotoluene	U		0.00150	0.00665	1.18	09/17/2019 16:01	WG1347115
1,2-Dibromo-3-Chloropropane	U		0.00679	0.0333	1.18	09/17/2019 16:01	WG1347115
1,2-Dibromoethane	U		0.000699	0.00333	1.18	09/17/2019 16:01	WG1347115
Dibromomethane	U		0.00133	0.00665	1.18	09/17/2019 16:01	WG1347115
1,2-Dichlorobenzene	U		0.00193	0.00665	1.18	09/17/2019 16:01	WG1347115
1,3-Dichlorobenzene	U		0.00227	0.00665	1.18	09/17/2019 16:01	WG1347115
1,4-Dichlorobenzene	U		0.00262	0.00665	1.18	09/17/2019 16:01	WG1347115
Dichlorodifluoromethane	U		0.00109	0.00333	1.18	09/17/2019 16:01	WG1347115
1,1-Dichloroethane	U		0.000765	0.00333	1.18	09/17/2019 16:01	WG1347115
1,2-Dichloroethane	U		0.000632	0.00333	1.18	09/17/2019 16:01	WG1347115
1,1-Dichloroethene	U		0.000665	0.00333	1.18	09/17/2019 16:01	WG1347115
cis-1,2-Dichloroethene	U		0.000918	0.00333	1.18	09/17/2019 16:01	WG1347115
trans-1,2-Dichloroethene	U		0.00191	0.00665	1.18	09/17/2019 16:01	WG1347115
1,2-Dichloropropane	U		0.00169	0.00665	1.18	09/17/2019 16:01	WG1347115
1,1-Dichloropropene	U		0.000932	0.00333	1.18	09/17/2019 16:01	WG1347115
1,3-Dichloropropane	U		0.00232	0.00665	1.18	09/17/2019 16:01	WG1347115
cis-1,3-Dichloropropene	U		0.000902	0.00333	1.18	09/17/2019 16:01	WG1347115
trans-1,3-Dichloropropene	U		0.00203	0.00665	1.18	09/17/2019 16:01	WG1347115
trans-1,4-Dichloro-2-butene	U		0.00186	0.00665	1.18	09/17/2019 16:01	WG1347115
2,2-Dichloropropane	U		0.00106	0.00333	1.18	09/17/2019 16:01	WG1347115
Di-isopropyl ether	U		0.000466	0.00133	1.18	09/17/2019 16:01	WG1347115
Ethylbenzene	U		0.000705	0.00333	1.18	09/17/2019 16:01	WG1347115
Hexachloro-1,3-butadiene	U		0.0169	0.0333	1.18	09/17/2019 16:01	WG1347115
2-Hexanone	U		0.0133	0.0333	1.18	09/17/2019 16:01	WG1347115
n-Hexane	0.00462 J	J	0.00141	0.00665	1.18	09/17/2019 16:01	WG1347115
Iodomethane	U		0.00805	0.0166	1.18	09/17/2019 16:01	WG1347115
Isopropylbenzene	U		0.00115	0.00333	1.18	09/17/2019 16:01	WG1347115
p-Isopropyltoluene	U		0.00310	0.00665	1.18	09/17/2019 16:01	WG1347115
2-Butanone (MEK)	0.0223 J	J	0.0167	0.0333	1.18	09/17/2019 16:01	WG1347115
Methylene Chloride	0.0129 J	J	0.00884	0.0333	1.18	09/17/2019 16:01	WG1347115
4-Methyl-2-pentanone (MIBK)	U		0.0133	0.0333	1.18	09/17/2019 16:01	WG1347115

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000393	0.00133	1.18	09/17/2019 16:01	WG1347115
Naphthalene	U		0.00415	0.0166	1.18	09/17/2019 16:01	WG1347115
n-Propylbenzene	U		0.00157	0.00665	1.18	09/17/2019 16:01	WG1347115
Styrene	U		0.00363	0.0166	1.18	09/17/2019 16:01	WG1347115
1,1,1,2-Tetrachloroethane	U		0.000665	0.00333	1.18	09/17/2019 16:01	WG1347115
1,1,2,2-Tetrachloroethane	U		0.000519	0.00333	1.18	09/17/2019 16:01	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.000898	0.00333	1.18	09/17/2019 16:01	WG1347115
Tetrachloroethene	U		0.000932	0.00333	1.18	09/17/2019 16:01	WG1347115
Toluene	0.00821		0.00167	0.00665	1.18	09/17/2019 16:01	WG1347115
1,2,3-Trichlorobenzene	U		0.000832	0.00333	1.18	09/17/2019 16:01	WG1347115
1,2,4-Trichlorobenzene	U		0.00642	0.0166	1.18	09/17/2019 16:01	WG1347115
1,1,1-Trichloroethane	U		0.000365	0.00333	1.18	09/17/2019 16:01	WG1347115
1,1,2-Trichloroethane	U		0.00117	0.00333	1.18	09/17/2019 16:01	WG1347115
Trichloroethene	U		0.000532	0.00133	1.18	09/17/2019 16:01	WG1347115
Trichlorofluoromethane	0.00306 J	J	0.000665	0.00333	1.18	09/17/2019 16:01	WG1347115
1,2,3-Trichloropropane	U		0.00679	0.0166	1.18	09/17/2019 16:01	WG1347115
1,2,4-Trimethylbenzene	U		0.00155	0.00665	1.18	09/17/2019 16:01	WG1347115
1,2,3-Trimethylbenzene	U		0.00153	0.00665	1.18	09/17/2019 16:01	WG1347115
1,3,5-Trimethylbenzene	U		0.00143	0.00665	1.18	09/17/2019 16:01	WG1347115
Vinyl acetate	U		0.00468	0.0166	1.18	09/17/2019 16:01	WG1347115
Vinyl chloride	U		0.000909	0.00333	1.18	09/17/2019 16:01	WG1347115
Xylenes, Total	U		0.00636	0.00865	1.18	09/17/2019 16:01	WG1347115
(S) Toluene-d8	*108*			*75.0-131*		*09/17/2019 16:01*	WG1347115
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/17/2019 16:01*	WG1347115
(S) 1,2-Dichloroethane-d4	*98.1*			*70.0-130*		*09/17/2019 16:01*	WG1347115

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.5		1	09/18/2019 13:06	WG1347348

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0298 J	J0 J3	0.0160	0.0292	1	09/17/2019 16:21	WG1347115
Acrylonitrile	U		0.00222	0.0146	1	09/17/2019 16:21	WG1347115
Benzene	U		0.000468	0.00117	1	09/17/2019 16:21	WG1347115
Bromobenzene	U		0.00123	0.0146	1	09/17/2019 16:21	WG1347115
Bromodichloromethane	U		0.000922	0.00292	1	09/17/2019 16:21	WG1347115
Bromochloromethane	U		0.00132	0.00585	1	09/17/2019 16:21	WG1347115
Bromoform	U		0.00699	0.0292	1	09/17/2019 16:21	WG1347115
Bromomethane	U		0.00433	0.0146	1	09/17/2019 16:21	WG1347115
n-Butylbenzene	U		0.00449	0.0146	1	09/17/2019 16:21	WG1347115
sec-Butylbenzene	U		0.00296	0.0146	1	09/17/2019 16:21	WG1347115
tert-Butylbenzene	U		0.00181	0.00585	1	09/17/2019 16:21	WG1347115
Carbon disulfide	U		0.00475	0.0146	1	09/17/2019 16:21	WG1347115
Carbon tetrachloride	U		0.00126	0.00585	1	09/17/2019 16:21	WG1347115
Chlorobenzene	U		0.000670	0.00292	1	09/17/2019 16:21	WG1347115
Chlorodibromomethane	U		0.000526	0.00292	1	09/17/2019 16:21	WG1347115
Chloroethane	U		0.00126	0.00585	1	09/17/2019 16:21	WG1347115
Chloroform	U		0.000485	0.00292	1	09/17/2019 16:21	WG1347115
Chloromethane	U		0.00163	0.0146	1	09/17/2019 16:21	WG1347115
2-Chlorotoluene	U		0.00108	0.00292	1	09/17/2019 16:21	WG1347115
4-Chlorotoluene	U		0.00132	0.00585	1	09/17/2019 16:21	WG1347115
1,2-Dibromo-3-Chloropropane	U		0.00596	0.0292	1	09/17/2019 16:21	WG1347115
1,2-Dibromoethane	U		0.000614	0.00292	1	09/17/2019 16:21	WG1347115
Dibromomethane	U		0.00117	0.00585	1	09/17/2019 16:21	WG1347115
1,2-Dichlorobenzene	U		0.00170	0.00585	1	09/17/2019 16:21	WG1347115
1,3-Dichlorobenzene	U		0.00199	0.00585	1	09/17/2019 16:21	WG1347115
1,4-Dichlorobenzene	U		0.00230	0.00585	1	09/17/2019 16:21	WG1347115
Dichlorodifluoromethane	U		0.000957	0.00292	1	09/17/2019 16:21	WG1347115
1,1-Dichloroethane	U		0.000672	0.00292	1	09/17/2019 16:21	WG1347115
1,2-Dichloroethane	U		0.000555	0.00292	1	09/17/2019 16:21	WG1347115
1,1-Dichloroethene	U		0.000585	0.00292	1	09/17/2019 16:21	WG1347115
cis-1,2-Dichloroethene	U		0.000807	0.00292	1	09/17/2019 16:21	WG1347115
trans-1,2-Dichloroethene	U		0.00167	0.00585	1	09/17/2019 16:21	WG1347115
1,2-Dichloropropane	U		0.00149	0.00585	1	09/17/2019 16:21	WG1347115
1,1-Dichloropropene	U		0.000819	0.00292	1	09/17/2019 16:21	WG1347115
1,3-Dichloropropane	U		0.00205	0.00585	1	09/17/2019 16:21	WG1347115
cis-1,3-Dichloropropene	U		0.000793	0.00292	1	09/17/2019 16:21	WG1347115
trans-1,3-Dichloropropene	U		0.00179	0.00585	1	09/17/2019 16:21	WG1347115
trans-1,4-Dichloro-2-butene	U		0.00164	0.00585	1	09/17/2019 16:21	WG1347115
2,2-Dichloropropane	U		0.000927	0.00292	1	09/17/2019 16:21	WG1347115
Di-isopropyl ether	U		0.000409	0.00117	1	09/17/2019 16:21	WG1347115
Ethylbenzene	U		0.000620	0.00292	1	09/17/2019 16:21	WG1347115
Hexachloro-1,3-butadiene	U		0.0149	0.0292	1	09/17/2019 16:21	WG1347115
2-Hexanone	U		0.0117	0.0292	1	09/17/2019 16:21	WG1347115
n-Hexane	0.00338 J	J	0.00124	0.00585	1	09/17/2019 16:21	WG1347115
Iodomethane	U		0.00708	0.0146	1	09/17/2019 16:21	WG1347115
Isopropylbenzene	U		0.00101	0.00292	1	09/17/2019 16:21	WG1347115
p-Isopropyltoluene	U		0.00272	0.00585	1	09/17/2019 16:21	WG1347115
2-Butanone (MEK)	0.0197 J	J	0.0146	0.0292	1	09/17/2019 16:21	WG1347115
Methylene Chloride	0.00875 J	J	0.00777	0.0292	1	09/17/2019 16:21	WG1347115
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	09/17/2019 16:21	WG1347115

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	09/17/2019 16:21	WG1347115
Naphthalene	U		0.00365	0.0146	1	09/17/2019 16:21	WG1347115
n-Propylbenzene	U		0.00138	0.00585	1	09/17/2019 16:21	WG1347115
Styrene	U		0.00319	0.0146	1	09/17/2019 16:21	WG1347115
1,1,1,2-Tetrachloroethane	U		0.000585	0.00292	1	09/17/2019 16:21	WG1347115
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	09/17/2019 16:21	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.000789	0.00292	1	09/17/2019 16:21	WG1347115
Tetrachloroethene	U		0.000819	0.00292	1	09/17/2019 16:21	WG1347115
Toluene	0.00821		0.00146	0.00585	1	09/17/2019 16:21	WG1347115
1,2,3-Trichlorobenzene	U		0.000731	0.00292	1	09/17/2019 16:21	WG1347115
1,2,4-Trichlorobenzene	U		0.00564	0.0146	1	09/17/2019 16:21	WG1347115
1,1,1-Trichloroethane	U		0.000322	0.00292	1	09/17/2019 16:21	WG1347115
1,1,2-Trichloroethane	U		0.00103	0.00292	1	09/17/2019 16:21	WG1347115
Trichloroethene	U		0.000468	0.00117	1	09/17/2019 16:21	WG1347115
Trichlorofluoromethane	U		0.000585	0.00292	1	09/17/2019 16:21	WG1347115
1,2,3-Trichloropropane	U		0.00596	0.0146	1	09/17/2019 16:21	WG1347115
1,2,4-Trimethylbenzene	U		0.00136	0.00585	1	09/17/2019 16:21	WG1347115
1,2,3-Trimethylbenzene	U		0.00134	0.00585	1	09/17/2019 16:21	WG1347115
1,3,5-Trimethylbenzene	U		0.00126	0.00585	1	09/17/2019 16:21	WG1347115
Vinyl acetate	U		0.00412	0.0146	1	09/17/2019 16:21	WG1347115
Vinyl chloride	U		0.000799	0.00292	1	09/17/2019 16:21	WG1347115
Xylenes, Total	U		0.00559	0.00760	1	09/17/2019 16:21	WG1347115
(S) Toluene-d8	*106*			*75.0-131*		*09/17/2019 16:21*	WG1347115
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/17/2019 16:21*	WG1347115
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*09/17/2019 16:21*	WG1347115

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MW-326-20

Collected date/time: 09/09/19 11:24

SAMPLE RESULTS - 06

L1138822

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.4		1	09/18/2019 13:06	WG1347348

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0215 U	J J0 J3	0.0160	0.0293	1	09/17/2019 16:42	WG1347115
Acrylonitrile	U		0.00222	0.0146	1	09/17/2019 16:42	WG1347115
Benzene	U		0.000468	0.00117	1	09/17/2019 16:42	WG1347115
Bromobenzene	U		0.00123	0.0146	1	09/17/2019 16:42	WG1347115
Bromodichloromethane	U		0.000922	0.00293	1	09/17/2019 16:42	WG1347115
Bromochloromethane	U		0.00132	0.00585	1	09/17/2019 16:42	WG1347115
Bromoform	U		0.00700	0.0293	1	09/17/2019 16:42	WG1347115
Bromomethane	U		0.00433	0.0146	1	09/17/2019 16:42	WG1347115
n-Butylbenzene	U		0.00450	0.0146	1	09/17/2019 16:42	WG1347115
sec-Butylbenzene	U		0.00296	0.0146	1	09/17/2019 16:42	WG1347115
tert-Butylbenzene	U		0.00181	0.00585	1	09/17/2019 16:42	WG1347115
Carbon disulfide	U		0.00475	0.0146	1	09/17/2019 16:42	WG1347115
Carbon tetrachloride	U		0.00126	0.00585	1	09/17/2019 16:42	WG1347115
Chlorobenzene	U		0.000671	0.00293	1	09/17/2019 16:42	WG1347115
Chlorodibromomethane	U		0.000527	0.00293	1	09/17/2019 16:42	WG1347115
Chloroethane	U		0.00126	0.00585	1	09/17/2019 16:42	WG1347115
Chloroform	U		0.000486	0.00293	1	09/17/2019 16:42	WG1347115
Chloromethane	U		0.00163	0.0146	1	09/17/2019 16:42	WG1347115
2-Chlorotoluene	U		0.00108	0.00293	1	09/17/2019 16:42	WG1347115
4-Chlorotoluene	U		0.00132	0.00585	1	09/17/2019 16:42	WG1347115
1,2-Dibromo-3-Chloropropane	U		0.00597	0.0293	1	09/17/2019 16:42	WG1347115
1,2-Dibromoethane	U		0.000615	0.00293	1	09/17/2019 16:42	WG1347115
Dibromomethane	U		0.00117	0.00585	1	09/17/2019 16:42	WG1347115
1,2-Dichlorobenzene	U		0.00170	0.00585	1	09/17/2019 16:42	WG1347115
1,3-Dichlorobenzene	U		0.00199	0.00585	1	09/17/2019 16:42	WG1347115
1,4-Dichlorobenzene	U		0.00231	0.00585	1	09/17/2019 16:42	WG1347115
Dichlorodifluoromethane	U		0.000958	0.00293	1	09/17/2019 16:42	WG1347115
1,1-Dichloroethane	U		0.000673	0.00293	1	09/17/2019 16:42	WG1347115
1,2-Dichloroethane	U		0.000556	0.00293	1	09/17/2019 16:42	WG1347115
1,1-Dichloroethene	U		0.000585	0.00293	1	09/17/2019 16:42	WG1347115
cis-1,2-Dichloroethene	U		0.000808	0.00293	1	09/17/2019 16:42	WG1347115
trans-1,2-Dichloroethene	U		0.00167	0.00585	1	09/17/2019 16:42	WG1347115
1,2-Dichloropropane	U		0.00149	0.00585	1	09/17/2019 16:42	WG1347115
1,1-Dichloropropene	U		0.000819	0.00293	1	09/17/2019 16:42	WG1347115
1,3-Dichloropropane	U		0.00205	0.00585	1	09/17/2019 16:42	WG1347115
cis-1,3-Dichloropropene	U		0.000794	0.00293	1	09/17/2019 16:42	WG1347115
trans-1,3-Dichloropropene	U		0.00179	0.00585	1	09/17/2019 16:42	WG1347115
trans-1,4-Dichloro-2-butene	U		0.00164	0.00585	1	09/17/2019 16:42	WG1347115
2,2-Dichloropropane	U		0.000928	0.00293	1	09/17/2019 16:42	WG1347115
Di-isopropyl ether	U		0.000410	0.00117	1	09/17/2019 16:42	WG1347115
Ethylbenzene	U		0.000620	0.00293	1	09/17/2019 16:42	WG1347115
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1	09/17/2019 16:42	WG1347115
2-Hexanone	U		0.0117	0.0293	1	09/17/2019 16:42	WG1347115
n-Hexane	U		0.00124	0.00585	1	09/17/2019 16:42	WG1347115
Iodomethane	U		0.00708	0.0146	1	09/17/2019 16:42	WG1347115
Isopropylbenzene	U		0.00101	0.00293	1	09/17/2019 16:42	WG1347115
p-Isopropyltoluene	U		0.00273	0.00585	1	09/17/2019 16:42	WG1347115
2-Butanone (MEK)	U		0.0146	0.0293	1	09/17/2019 16:42	WG1347115
Methylene Chloride	U		0.00777	0.0293	1	09/17/2019 16:42	WG1347115
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1	09/17/2019 16:42	WG1347115

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	09/17/2019 16:42	WG1347115
Naphthalene	U		0.00365	0.0146	1	09/17/2019 16:42	WG1347115
n-Propylbenzene	U		0.00138	0.00585	1	09/17/2019 16:42	WG1347115
Styrene	U		0.00320	0.0146	1	09/17/2019 16:42	WG1347115
1,1,1,2-Tetrachloroethane	U		0.000585	0.00293	1	09/17/2019 16:42	WG1347115
1,1,2,2-Tetrachloroethane	U		0.000457	0.00293	1	09/17/2019 16:42	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.000790	0.00293	1	09/17/2019 16:42	WG1347115
Tetrachloroethene	U		0.000819	0.00293	1	09/17/2019 16:42	WG1347115
Toluene	0.00613		0.00146	0.00585	1	09/17/2019 16:42	WG1347115
1,2,3-Trichlorobenzene	U		0.000732	0.00293	1	09/17/2019 16:42	WG1347115
1,2,4-Trichlorobenzene	U		0.00564	0.0146	1	09/17/2019 16:42	WG1347115
1,1,1-Trichloroethane	U		0.000322	0.00293	1	09/17/2019 16:42	WG1347115
1,1,2-Trichloroethane	U		0.00103	0.00293	1	09/17/2019 16:42	WG1347115
Trichloroethene	U		0.000468	0.00117	1	09/17/2019 16:42	WG1347115
Trichlorofluoromethane	0.00261 J	J	0.000585	0.00293	1	09/17/2019 16:42	WG1347115
1,2,3-Trichloropropane	U		0.00597	0.0146	1	09/17/2019 16:42	WG1347115
1,2,4-Trimethylbenzene	U		0.00136	0.00585	1	09/17/2019 16:42	WG1347115
1,2,3-Trimethylbenzene	U		0.00135	0.00585	1	09/17/2019 16:42	WG1347115
1,3,5-Trimethylbenzene	U		0.00126	0.00585	1	09/17/2019 16:42	WG1347115
Vinyl acetate	U		0.00412	0.0146	1	09/17/2019 16:42	WG1347115
Vinyl chloride	U		0.000800	0.00293	1	09/17/2019 16:42	WG1347115
Xylenes, Total	U		0.00560	0.00761	1	09/17/2019 16:42	WG1347115
(S) Toluene-d8	*104*			*75.0-131*		*09/17/2019 16:42*	WG1347115
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/17/2019 16:42*	WG1347115
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*09/17/2019 16:42*	WG1347115

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 10/24/19

MW-326-25

Collected date/time: 09/09/19 12:05

SAMPLE RESULTS - 07

L1138822

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.6		1	09/18/2019 13:06	WG1347348

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0213 U	~~J J0 J3~~	0.0170	0.0310	1	09/17/2019 17:02	WG1347115
Acrylonitrile	U		0.00236	0.0155	1	09/17/2019 17:02	WG1347115
Benzene	U		0.000496	0.00124	1	09/17/2019 17:02	WG1347115
Bromobenzene	U		0.00130	0.0155	1	09/17/2019 17:02	WG1347115
Bromodichloromethane	U		0.000978	0.00310	1	09/17/2019 17:02	WG1347115
Bromochloromethane	U		0.00140	0.00620	1	09/17/2019 17:02	WG1347115
Bromoform	U		0.00742	0.0310	1	09/17/2019 17:02	WG1347115
Bromomethane	U		0.00459	0.0155	1	09/17/2019 17:02	WG1347115
n-Butylbenzene	U		0.00477	0.0155	1	09/17/2019 17:02	WG1347115
sec-Butylbenzene	U		0.00314	0.0155	1	09/17/2019 17:02	WG1347115
tert-Butylbenzene	U		0.00192	0.00620	1	09/17/2019 17:02	WG1347115
Carbon disulfide	U		0.00504	0.0155	1	09/17/2019 17:02	WG1347115
Carbon tetrachloride	U		0.00134	0.00620	1	09/17/2019 17:02	WG1347115
Chlorobenzene	U		0.000711	0.00310	1	09/17/2019 17:02	WG1347115
Chlorodibromomethane	U		0.000558	0.00310	1	09/17/2019 17:02	WG1347115
Chloroethane	U		0.00134	0.00620	1	09/17/2019 17:02	WG1347115
Chloroform	U		0.000515	0.00310	1	09/17/2019 17:02	WG1347115
Chloromethane	U		0.00172	0.0155	1	09/17/2019 17:02	WG1347115
2-Chlorotoluene	U		0.00114	0.00310	1	09/17/2019 17:02	WG1347115
4-Chlorotoluene	U		0.00140	0.00620	1	09/17/2019 17:02	WG1347115
1,2-Dibromo-3-Chloropropane	U		0.00633	0.0310	1	09/17/2019 17:02	WG1347115
1,2-Dibromoethane	U		0.000651	0.00310	1	09/17/2019 17:02	WG1347115
Dibromomethane	U		0.00124	0.00620	1	09/17/2019 17:02	WG1347115
1,2-Dichlorobenzene	U		0.00180	0.00620	1	09/17/2019 17:02	WG1347115
1,3-Dichlorobenzene	U		0.00211	0.00620	1	09/17/2019 17:02	WG1347115
1,4-Dichlorobenzene	U		0.00244	0.00620	1	09/17/2019 17:02	WG1347115
Dichlorodifluoromethane	U		0.00102	0.00310	1	09/17/2019 17:02	WG1347115
1,1-Dichloroethane	U		0.000714	0.00310	1	09/17/2019 17:02	WG1347115
1,2-Dichloroethane	U		0.000589	0.00310	1	09/17/2019 17:02	WG1347115
1,1-Dichloroethene	U		0.000620	0.00310	1	09/17/2019 17:02	WG1347115
cis-1,2-Dichloroethene	U		0.000856	0.00310	1	09/17/2019 17:02	WG1347115
trans-1,2-Dichloroethene	U		0.00177	0.00620	1	09/17/2019 17:02	WG1347115
1,2-Dichloropropane	U		0.00158	0.00620	1	09/17/2019 17:02	WG1347115
1,1-Dichloropropene	U		0.000869	0.00310	1	09/17/2019 17:02	WG1347115
1,3-Dichloropropane	U		0.00217	0.00620	1	09/17/2019 17:02	WG1347115
cis-1,3-Dichloropropene	U		0.000841	0.00310	1	09/17/2019 17:02	WG1347115
trans-1,3-Dichloropropene	U		0.00190	0.00620	1	09/17/2019 17:02	WG1347115
trans-1,4-Dichloro-2-butene	U		0.00174	0.00620	1	09/17/2019 17:02	WG1347115
2,2-Dichloropropane	U		0.000984	0.00310	1	09/17/2019 17:02	WG1347115
Di-isopropyl ether	U		0.000434	0.00124	1	09/17/2019 17:02	WG1347115
Ethylbenzene	U		0.000658	0.00310	1	09/17/2019 17:02	WG1347115
Hexachloro-1,3-butadiene	U		0.0158	0.0310	1	09/17/2019 17:02	WG1347115
2-Hexanone	U		0.0124	0.0310	1	09/17/2019 17:02	WG1347115
n-Hexane	0.00347 J	J	0.00132	0.00620	1	09/17/2019 17:02	WG1347115
Iodomethane	U		0.00751	0.0155	1	09/17/2019 17:02	WG1347115
Isopropylbenzene	U		0.00107	0.00310	1	09/17/2019 17:02	WG1347115
p-Isopropyltoluene	U		0.00289	0.00620	1	09/17/2019 17:02	WG1347115
2-Butanone (MEK)	U		0.0155	0.0310	1	09/17/2019 17:02	WG1347115
Methylene Chloride	0.0105 J	J	0.00824	0.0310	1	09/17/2019 17:02	WG1347115
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0310	1	09/17/2019 17:02	WG1347115

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000366	0.00124	1	09/17/2019 17:02	WG1347115
Naphthalene	U		0.00387	0.0155	1	09/17/2019 17:02	WG1347115
n-Propylbenzene	U		0.00146	0.00620	1	09/17/2019 17:02	WG1347115
Styrene	U		0.00339	0.0155	1	09/17/2019 17:02	WG1347115
1,1,1,2-Tetrachloroethane	U		0.000620	0.00310	1	09/17/2019 17:02	WG1347115
1,1,2,2-Tetrachloroethane	U		0.000484	0.00310	1	09/17/2019 17:02	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.000838	0.00310	1	09/17/2019 17:02	WG1347115
Tetrachloroethene	U		0.000869	0.00310	1	09/17/2019 17:02	WG1347115
Toluene	0.00595 J	J	0.00155	0.00620	1	09/17/2019 17:02	WG1347115
1,2,3-Trichlorobenzene	U		0.000776	0.00310	1	09/17/2019 17:02	WG1347115
1,2,4-Trichlorobenzene	U		0.00598	0.0155	1	09/17/2019 17:02	WG1347115
1,1,1-Trichloroethane	U		0.000341	0.00310	1	09/17/2019 17:02	WG1347115
1,1,2-Trichloroethane	U		0.00110	0.00310	1	09/17/2019 17:02	WG1347115
Trichloroethene	U		0.000496	0.00124	1	09/17/2019 17:02	WG1347115
Trichlorofluoromethane	0.00253 J	J	0.000620	0.00310	1	09/17/2019 17:02	WG1347115
1,2,3-Trichloropropane	U		0.00633	0.0155	1	09/17/2019 17:02	WG1347115
1,2,4-Trimethylbenzene	U		0.00144	0.00620	1	09/17/2019 17:02	WG1347115
1,2,3-Trimethylbenzene	U		0.00143	0.00620	1	09/17/2019 17:02	WG1347115
1,3,5-Trimethylbenzene	U		0.00134	0.00620	1	09/17/2019 17:02	WG1347115
Vinyl acetate	U		0.00437	0.0155	1	09/17/2019 17:02	WG1347115
Vinyl chloride	U		0.000848	0.00310	1	09/17/2019 17:02	WG1347115
Xylenes, Total	U		0.00593	0.00807	1	09/17/2019 17:02	WG1347115
(S) Toluene-d8	*106*			*75.0-131*		*09/17/2019 17:02*	WG1347115
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/17/2019 17:02*	WG1347115
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*09/17/2019 17:02*	WG1347115

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.9		1	09/18/2019 13:06	WG1347348

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.105	J	J0 J3	0.0553	0.101	3.23	09/17/2019 17:23	WG1347115	
Acrylonitrile	U			0.00768	0.0505	3.23	09/17/2019 17:23	WG1347115	
Benzene	U			0.00161	0.00404	3.23	09/17/2019 17:23	WG1347115	
Bromobenzene	U			0.00424	0.0505	3.23	09/17/2019 17:23	WG1347115	
Bromodichloromethane	U			0.00318	0.0101	3.23	09/17/2019 17:23	WG1347115	
Bromochloromethane	U			0.00457	0.0202	3.23	09/17/2019 17:23	WG1347115	
Bromoform	U			0.0241	0.101	3.23	09/17/2019 17:23	WG1347115	
Bromomethane	U			0.0150	0.0505	3.23	09/17/2019 17:23	WG1347115	
n-Butylbenzene	U			0.0155	0.0505	3.23	09/17/2019 17:23	WG1347115	
sec-Butylbenzene	U			0.0102	0.0505	3.23	09/17/2019 17:23	WG1347115	
tert-Butylbenzene	U			0.00627	0.0202	3.23	09/17/2019 17:23	WG1347115	
Carbon disulfide	U			0.0164	0.0505	3.23	09/17/2019 17:23	WG1347115	
Carbon tetrachloride	U			0.00437	0.0202	3.23	09/17/2019 17:23	WG1347115	
Chlorobenzene	U			0.00231	0.0101	3.23	09/17/2019 17:23	WG1347115	
Chlorodibromomethane	U			0.00181	0.0101	3.23	09/17/2019 17:23	WG1347115	
Chloroethane	U			0.00437	0.0202	3.23	09/17/2019 17:23	WG1347115	
Chloroform	U			0.00168	0.0101	3.23	09/17/2019 17:23	WG1347115	
Chloromethane	U			0.00562	0.0505	3.23	09/17/2019 17:23	WG1347115	
2-Chlorotoluene	U			0.00372	0.0101	3.23	09/17/2019 17:23	WG1347115	
4-Chlorotoluene	U			0.00457	0.0202	3.23	09/17/2019 17:23	WG1347115	
1,2-Dibromo-3-Chloropropane	U			0.0206	0.101	3.23	09/17/2019 17:23	WG1347115	
1,2-Dibromoethane	U			0.00213	0.0101	3.23	09/17/2019 17:23	WG1347115	
Dibromomethane	U			0.00404	0.0202	3.23	09/17/2019 17:23	WG1347115	
1,2-Dichlorobenzene	U			0.00586	0.0202	3.23	09/17/2019 17:23	WG1347115	
1,3-Dichlorobenzene	U			0.00687	0.0202	3.23	09/17/2019 17:23	WG1347115	
1,4-Dichlorobenzene	U			0.00796	0.0202	3.23	09/17/2019 17:23	WG1347115	
Dichlorodifluoromethane	U			0.00330	0.0101	3.23	09/17/2019 17:23	WG1347115	
1,1-Dichloroethane	U			0.00233	0.0101	3.23	09/17/2019 17:23	WG1347115	
1,2-Dichloroethane	U			0.00191	0.0101	3.23	09/17/2019 17:23	WG1347115	
1,1-Dichloroethene	U			0.00203	0.0101	3.23	09/17/2019 17:23	WG1347115	
cis-1,2-Dichloroethene	U			0.00279	0.0101	3.23	09/17/2019 17:23	WG1347115	
trans-1,2-Dichloroethene	U			0.00578	0.0202	3.23	09/17/2019 17:23	WG1347115	
1,2-Dichloropropane	U			0.00513	0.0202	3.23	09/17/2019 17:23	WG1347115	
1,1-Dichloropropene	U			0.00283	0.0101	3.23	09/17/2019 17:23	WG1347115	
1,3-Dichloropropane	U			0.00707	0.0202	3.23	09/17/2019 17:23	WG1347115	
cis-1,3-Dichloropropene	U			0.00274	0.0101	3.23	09/17/2019 17:23	WG1347115	
trans-1,3-Dichloropropene	U			0.00618	0.0202	3.23	09/17/2019 17:23	WG1347115	
trans-1,4-Dichloro-2-butene	U			0.00566	0.0202	3.23	09/17/2019 17:23	WG1347115	
2,2-Dichloropropane	U			0.00320	0.0101	3.23	09/17/2019 17:23	WG1347115	
Di-isopropyl ether	U			0.00141	0.00404	3.23	09/17/2019 17:23	WG1347115	
Ethylbenzene	U			0.00214	0.0101	3.23	09/17/2019 17:23	WG1347115	
Hexachloro-1,3-butadiene	U			0.0513	0.101	3.23	09/17/2019 17:23	WG1347115	
2-Hexanone	U			0.0404	0.101	3.23	09/17/2019 17:23	WG1347115	
n-Hexane	U			0.00428	0.0202	3.23	09/17/2019 17:23	WG1347115	
Iodomethane	U			0.0244	0.0505	3.23	09/17/2019 17:23	WG1347115	
Isopropylbenzene	U			0.00349	0.0101	3.23	09/17/2019 17:23	WG1347115	
p-Isopropyltoluene	U			0.00941	0.0202	3.23	09/17/2019 17:23	WG1347115	
2-Butanone (MEK)	U			0.0505	0.101	3.23	09/17/2019 17:23	WG1347115	JC 10/24/19
Methylene Chloride	0.0350	J	J	0.0268	0.101	3.23	09/17/2019 17:23	WG1347115	
4-Methyl-2-pentanone (MIBK)	U			0.0404	0.101	3.23	09/17/2019 17:23	WG1347115	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00119	0.00404	3.23	09/17/2019 17:23	WG1347115
Naphthalene	U		0.0126	0.0505	3.23	09/17/2019 17:23	WG1347115
n-Propylbenzene	U		0.00477	0.0202	3.23	09/17/2019 17:23	WG1347115
Styrene	U		0.0110	0.0505	3.23	09/17/2019 17:23	WG1347115
1,1,1,2-Tetrachloroethane	U		0.00203	0.0101	3.23	09/17/2019 17:23	WG1347115
1,1,2,2-Tetrachloroethane	U		0.00158	0.0101	3.23	09/17/2019 17:23	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.00273	0.0101	3.23	09/17/2019 17:23	WG1347115
Tetrachloroethene	U		0.00283	0.0101	3.23	09/17/2019 17:23	WG1347115
Toluene	0.0174 J	J	0.00505	0.0202	3.23	09/17/2019 17:23	WG1347115
1,2,3-Trichlorobenzene	U		0.00253	0.0101	3.23	09/17/2019 17:23	WG1347115
1,2,4-Trichlorobenzene	U		0.0195	0.0505	3.23	09/17/2019 17:23	WG1347115
1,1,1-Trichloroethane	U		0.00111	0.0101	3.23	09/17/2019 17:23	WG1347115
1,1,2-Trichloroethane	U		0.00357	0.0101	3.23	09/17/2019 17:23	WG1347115
Trichloroethene	U		0.00161	0.00404	3.23	09/17/2019 17:23	WG1347115
Trichlorofluoromethane	U		0.00203	0.0101	3.23	09/17/2019 17:23	WG1347115
1,2,3-Trichloropropane	U		0.0206	0.0505	3.23	09/17/2019 17:23	WG1347115
1,2,4-Trimethylbenzene	U		0.00469	0.0202	3.23	09/17/2019 17:23	WG1347115
1,2,3-Trimethylbenzene	U		0.00464	0.0202	3.23	09/17/2019 17:23	WG1347115
1,3,5-Trimethylbenzene	U		0.00437	0.0202	3.23	09/17/2019 17:23	WG1347115
Vinyl acetate	U		0.0143	0.0505	3.23	09/17/2019 17:23	WG1347115
Vinyl chloride	U		0.00277	0.0101	3.23	09/17/2019 17:23	WG1347115
Xylenes, Total	U		0.0193	0.0263	3.23	09/17/2019 17:23	WG1347115
(S) Toluene-d8	*104*			*75.0-131*		*09/17/2019 17:23*	WG1347115
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/17/2019 17:23*	WG1347115
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/17/2019 17:23*	WG1347115

JC 10/24/19

MW-326-35

Collected date/time: 09/09/19 12:35

SAMPLE RESULTS - 09

L1138822

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.9		1	09/18/2019 13:22	WG1347351

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0416 J	J0 J3	0.0169	0.0309	1	09/17/2019 17:43	WG1347115
Acrylonitrile	U		0.00235	0.0155	1	09/17/2019 17:43	WG1347115
Benzene	U		0.000495	0.00124	1	09/17/2019 17:43	WG1347115
Bromobenzene	U		0.00130	0.0155	1	09/17/2019 17:43	WG1347115
Bromodichloromethane	U		0.000975	0.00309	1	09/17/2019 17:43	WG1347115
Bromochloromethane	U		0.00140	0.00618	1	09/17/2019 17:43	WG1347115
Bromoform	U		0.00740	0.0309	1	09/17/2019 17:43	WG1347115
Bromomethane	U		0.00458	0.0155	1	09/17/2019 17:43	WG1347115
n-Butylbenzene	U		0.00475	0.0155	1	09/17/2019 17:43	WG1347115
sec-Butylbenzene	U		0.00313	0.0155	1	09/17/2019 17:43	WG1347115
tert-Butylbenzene	U		0.00192	0.00618	1	09/17/2019 17:43	WG1347115
Carbon disulfide	U		0.00502	0.0155	1	09/17/2019 17:43	WG1347115
Carbon tetrachloride	U		0.00134	0.00618	1	09/17/2019 17:43	WG1347115
Chlorobenzene	U		0.000709	0.00309	1	09/17/2019 17:43	WG1347115
Chlorodibromomethane	U		0.000557	0.00309	1	09/17/2019 17:43	WG1347115
Chloroethane	U		0.00134	0.00618	1	09/17/2019 17:43	WG1347115
Chloroform	U		0.000513	0.00309	1	09/17/2019 17:43	WG1347115
Chloromethane	U		0.00172	0.0155	1	09/17/2019 17:43	WG1347115
2-Chlorotoluene	U		0.00114	0.00309	1	09/17/2019 17:43	WG1347115
4-Chlorotoluene	U		0.00140	0.00618	1	09/17/2019 17:43	WG1347115
1,2-Dibromo-3-Chloropropane	U		0.00631	0.0309	1	09/17/2019 17:43	WG1347115
1,2-Dibromoethane	U		0.000649	0.00309	1	09/17/2019 17:43	WG1347115
Dibromomethane	U		0.00124	0.00618	1	09/17/2019 17:43	WG1347115
1,2-Dichlorobenzene	U		0.00179	0.00618	1	09/17/2019 17:43	WG1347115
1,3-Dichlorobenzene	U		0.00210	0.00618	1	09/17/2019 17:43	WG1347115
1,4-Dichlorobenzene	U		0.00244	0.00618	1	09/17/2019 17:43	WG1347115
Dichlorodifluoromethane	U		0.00101	0.00309	1	09/17/2019 17:43	WG1347115
1,1-Dichloroethane	U		0.000711	0.00309	1	09/17/2019 17:43	WG1347115
1,2-Dichloroethane	U		0.000587	0.00309	1	09/17/2019 17:43	WG1347115
1,1-Dichloroethene	U		0.000618	0.00309	1	09/17/2019 17:43	WG1347115
cis-1,2-Dichloroethene	U		0.000853	0.00309	1	09/17/2019 17:43	WG1347115
trans-1,2-Dichloroethene	U		0.00177	0.00618	1	09/17/2019 17:43	WG1347115
1,2-Dichloropropane	U		0.00157	0.00618	1	09/17/2019 17:43	WG1347115
1,1-Dichloropropene	U		0.000866	0.00309	1	09/17/2019 17:43	WG1347115
1,3-Dichloropropane	U		0.00216	0.00618	1	09/17/2019 17:43	WG1347115
cis-1,3-Dichloropropene	U		0.000838	0.00309	1	09/17/2019 17:43	WG1347115
trans-1,3-Dichloropropene	U		0.00189	0.00618	1	09/17/2019 17:43	WG1347115
trans-1,4-Dichloro-2-butene	U		0.00173	0.00618	1	09/17/2019 17:43	WG1347115
2,2-Dichloropropane	U		0.000981	0.00309	1	09/17/2019 17:43	WG1347115
Di-isopropyl ether	U		0.000433	0.00124	1	09/17/2019 17:43	WG1347115
Ethylbenzene	U		0.000655	0.00309	1	09/17/2019 17:43	WG1347115
Hexachloro-1,3-butadiene	U		0.0157	0.0309	1	09/17/2019 17:43	WG1347115
2-Hexanone	U		0.0124	0.0309	1	09/17/2019 17:43	WG1347115
n-Hexane	0.00352 J	J	0.00131	0.00618	1	09/17/2019 17:43	WG1347115
Iodomethane	U		0.00748	0.0155	1	09/17/2019 17:43	WG1347115
Isopropylbenzene	U		0.00107	0.00309	1	09/17/2019 17:43	WG1347115
p-Isopropyltoluene	U		0.00288	0.00618	1	09/17/2019 17:43	WG1347115
2-Butanone (MEK)	0.0175 J	J	0.0155	0.0309	1	09/17/2019 17:43	WG1347115
Methylene Chloride	0.0120 J	J	0.00821	0.0309	1	09/17/2019 17:43	WG1347115
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0309	1	09/17/2019 17:43	WG1347115

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000365	0.00124	1	09/17/2019 17:43	WG1347115
Naphthalene	U		0.00386	0.0155	1	09/17/2019 17:43	WG1347115
n-Propylbenzene	U		0.00146	0.00618	1	09/17/2019 17:43	WG1347115
Styrene	U		0.00338	0.0155	1	09/17/2019 17:43	WG1347115
1,1,1,2-Tetrachloroethane	U		0.000618	0.00309	1	09/17/2019 17:43	WG1347115
1,1,2,2-Tetrachloroethane	U		0.000482	0.00309	1	09/17/2019 17:43	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.000835	0.00309	1	09/17/2019 17:43	WG1347115
Tetrachloroethene	U		0.000866	0.00309	1	09/17/2019 17:43	WG1347115
Toluene	0.00819		0.00155	0.00618	1	09/17/2019 17:43	WG1347115
1,2,3-Trichlorobenzene	U		0.000773	0.00309	1	09/17/2019 17:43	WG1347115
1,2,4-Trichlorobenzene	U		0.00596	0.0155	1	09/17/2019 17:43	WG1347115
1,1,1-Trichloroethane	U		0.000340	0.00309	1	09/17/2019 17:43	WG1347115
1,1,2-Trichloroethane	U		0.00109	0.00309	1	09/17/2019 17:43	WG1347115
Trichloroethene	U		0.000495	0.00124	1	09/17/2019 17:43	WG1347115
Trichlorofluoromethane	U		0.000618	0.00309	1	09/17/2019 17:43	WG1347115
1,2,3-Trichloropropane	U		0.00631	0.0155	1	09/17/2019 17:43	WG1347115
1,2,4-Trimethylbenzene	U		0.00143	0.00618	1	09/17/2019 17:43	WG1347115
1,2,3-Trimethylbenzene	U		0.00142	0.00618	1	09/17/2019 17:43	WG1347115
1,3,5-Trimethylbenzene	U		0.00134	0.00618	1	09/17/2019 17:43	WG1347115
Vinyl acetate	U		0.00435	0.0155	1	09/17/2019 17:43	WG1347115
Vinyl chloride	U		0.000845	0.00309	1	09/17/2019 17:43	WG1347115
Xylenes, Total	U		0.00591	0.00804	1	09/17/2019 17:43	WG1347115
(S) Toluene-d8	*105*			*75.0-131*		*09/17/2019 17:43*	WG1347115
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*09/17/2019 17:43*	WG1347115
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/17/2019 17:43*	WG1347115

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.9		1	09/18/2019 13:22	WG1347351

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0437 J	J0 J3	0.0163	0.0298	1	09/17/2019 18:04	WG1347115
Acrylonitrile	U		0.00227	0.0149	1	09/17/2019 18:04	WG1347115
Benzene	U		0.000477	0.00119	1	09/17/2019 18:04	WG1347115
Bromobenzene	U		0.00125	0.0149	1	09/17/2019 18:04	WG1347115
Bromodichloromethane	U		0.000940	0.00298	1	09/17/2019 18:04	WG1347115
Bromochloromethane	U		0.00135	0.00596	1	09/17/2019 18:04	WG1347115
Bromoform	U		0.00713	0.0298	1	09/17/2019 18:04	WG1347115
Bromomethane	U		0.00441	0.0149	1	09/17/2019 18:04	WG1347115
n-Butylbenzene	U		0.00458	0.0149	1	09/17/2019 18:04	WG1347115
sec-Butylbenzene	U		0.00302	0.0149	1	09/17/2019 18:04	WG1347115
tert-Butylbenzene	U		0.00185	0.00596	1	09/17/2019 18:04	WG1347115
Carbon disulfide	U		0.00484	0.0149	1	09/17/2019 18:04	WG1347115
Carbon tetrachloride	U		0.00129	0.00596	1	09/17/2019 18:04	WG1347115
Chlorobenzene	U		0.000683	0.00298	1	09/17/2019 18:04	WG1347115
Chlorodibromomethane	U		0.000537	0.00298	1	09/17/2019 18:04	WG1347115
Chloroethane	U		0.00129	0.00596	1	09/17/2019 18:04	WG1347115
Chloroform	U		0.000495	0.00298	1	09/17/2019 18:04	WG1347115
Chloromethane	U		0.00166	0.0149	1	09/17/2019 18:04	WG1347115
2-Chlorotoluene	U		0.00110	0.00298	1	09/17/2019 18:04	WG1347115
4-Chlorotoluene	U		0.00135	0.00596	1	09/17/2019 18:04	WG1347115
1,2-Dibromo-3-Chloropropane	U		0.00608	0.0298	1	09/17/2019 18:04	WG1347115
1,2-Dibromoethane	U		0.000626	0.00298	1	09/17/2019 18:04	WG1347115
Dibromomethane	U		0.00119	0.00596	1	09/17/2019 18:04	WG1347115
1,2-Dichlorobenzene	U		0.00173	0.00596	1	09/17/2019 18:04	WG1347115
1,3-Dichlorobenzene	U		0.00203	0.00596	1	09/17/2019 18:04	WG1347115
1,4-Dichlorobenzene	U		0.00235	0.00596	1	09/17/2019 18:04	WG1347115
Dichlorodifluoromethane	U		0.000976	0.00298	1	09/17/2019 18:04	WG1347115
1,1-Dichloroethane	U		0.000686	0.00298	1	09/17/2019 18:04	WG1347115
1,2-Dichloroethane	U		0.000566	0.00298	1	09/17/2019 18:04	WG1347115
1,1-Dichloroethene	U		0.000596	0.00298	1	09/17/2019 18:04	WG1347115
cis-1,2-Dichloroethene	U		0.000823	0.00298	1	09/17/2019 18:04	WG1347115
trans-1,2-Dichloroethene	U		0.00171	0.00596	1	09/17/2019 18:04	WG1347115
1,2-Dichloropropane	U		0.00151	0.00596	1	09/17/2019 18:04	WG1347115
1,1-Dichloropropene	U		0.000835	0.00298	1	09/17/2019 18:04	WG1347115
1,3-Dichloropropane	U		0.00209	0.00596	1	09/17/2019 18:04	WG1347115
cis-1,3-Dichloropropene	U		0.000809	0.00298	1	09/17/2019 18:04	WG1347115
trans-1,3-Dichloropropene	U		0.00182	0.00596	1	09/17/2019 18:04	WG1347115
trans-1,4-Dichloro-2-butene	U		0.00167	0.00596	1	09/17/2019 18:04	WG1347115
2,2-Dichloropropane	U		0.000946	0.00298	1	09/17/2019 18:04	WG1347115
Di-isopropyl ether	U		0.000417	0.00119	1	09/17/2019 18:04	WG1347115
Ethylbenzene	U		0.000632	0.00298	1	09/17/2019 18:04	WG1347115
Hexachloro-1,3-butadiene	U		0.0151	0.0298	1	09/17/2019 18:04	WG1347115
2-Hexanone	U		0.0119	0.0298	1	09/17/2019 18:04	WG1347115
n-Hexane	0.00406 J	J	0.00126	0.00596	1	09/17/2019 18:04	WG1347115
Iodomethane	U		0.00721	0.0149	1	09/17/2019 18:04	WG1347115
Isopropylbenzene	U		0.00103	0.00298	1	09/17/2019 18:04	WG1347115
p-Isopropyltoluene	U		0.00278	0.00596	1	09/17/2019 18:04	WG1347115
2-Butanone (MEK)	U		0.0149	0.0298	1	09/17/2019 18:04	WG1347115
Methylene Chloride	0.00885 J	J	0.00792	0.0298	1	09/17/2019 18:04	WG1347115
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	09/17/2019 18:04	WG1347115

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	09/17/2019 18:04	WG1347115
Naphthalene	U		0.00372	0.0149	1	09/17/2019 18:04	WG1347115
n-Propylbenzene	U		0.00141	0.00596	1	09/17/2019 18:04	WG1347115
Styrene	U		0.00326	0.0149	1	09/17/2019 18:04	WG1347115
1,1,1,2-Tetrachloroethane	U		0.000596	0.00298	1	09/17/2019 18:04	WG1347115
1,1,2,2-Tetrachloroethane	U		0.000465	0.00298	1	09/17/2019 18:04	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.000805	0.00298	1	09/17/2019 18:04	WG1347115
Tetrachloroethene	U		0.000835	0.00298	1	09/17/2019 18:04	WG1347115
Toluene	0.00812		0.00149	0.00596	1	09/17/2019 18:04	WG1347115
1,2,3-Trichlorobenzene	U		0.000745	0.00298	1	09/17/2019 18:04	WG1347115
1,2,4-Trichlorobenzene	U		0.00575	0.0149	1	09/17/2019 18:04	WG1347115
1,1,1-Trichloroethane	U		0.000328	0.00298	1	09/17/2019 18:04	WG1347115
1,1,2-Trichloroethane	U		0.00105	0.00298	1	09/17/2019 18:04	WG1347115
Trichloroethene	U		0.000477	0.00119	1	09/17/2019 18:04	WG1347115
Trichlorofluoromethane	0.00319		0.000596	0.00298	1	09/17/2019 18:04	WG1347115
1,2,3-Trichloropropane	U		0.00608	0.0149	1	09/17/2019 18:04	WG1347115
1,2,4-Trimethylbenzene	U		0.00138	0.00596	1	09/17/2019 18:04	WG1347115
1,2,3-Trimethylbenzene	U		0.00137	0.00596	1	09/17/2019 18:04	WG1347115
1,3,5-Trimethylbenzene	U		0.00129	0.00596	1	09/17/2019 18:04	WG1347115
Vinyl acetate	U		0.00420	0.0149	1	09/17/2019 18:04	WG1347115
Vinyl chloride	U		0.000815	0.00298	1	09/17/2019 18:04	WG1347115
Xylenes, Total	U		0.00570	0.00775	1	09/17/2019 18:04	WG1347115
(S) Toluene-d8	*104*			*75.0-131*		*09/17/2019 18:04*	WG1347115
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/17/2019 18:04*	WG1347115
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/17/2019 18:04*	WG1347115

JC 10/24/19

MW-326-45

Collected date/time: 09/09/19 13:00

SAMPLE RESULTS - 11

L1138822

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.0		1	09/18/2019 13:22	WG1347351

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0165	0.0301	1	09/17/2019 18:24	WG1347115
Acrylonitrile	U		0.00229	0.0151	1	09/17/2019 18:24	WG1347115
Benzene	U		0.000482	0.00120	1	09/17/2019 18:24	WG1347115
Bromobenzene	U		0.00126	0.0151	1	09/17/2019 18:24	WG1347115
Bromodichloromethane	U		0.000949	0.00301	1	09/17/2019 18:24	WG1347115
Bromochloromethane	U		0.00136	0.00602	1	09/17/2019 18:24	WG1347115
Bromoform	U		0.00720	0.0301	1	09/17/2019 18:24	WG1347115
Bromomethane	U		0.00446	0.0151	1	09/17/2019 18:24	WG1347115
n-Butylbenzene	U		0.00462	0.0151	1	09/17/2019 18:24	WG1347115
sec-Butylbenzene	U		0.00305	0.0151	1	09/17/2019 18:24	WG1347115
tert-Butylbenzene	U		0.00187	0.00602	1	09/17/2019 18:24	WG1347115
Carbon disulfide	U		0.00489	0.0151	1	09/17/2019 18:24	WG1347115
Carbon tetrachloride	U		0.00130	0.00602	1	09/17/2019 18:24	WG1347115
Chlorobenzene	U		0.000690	0.00301	1	09/17/2019 18:24	WG1347115
Chlorodibromomethane	U		0.000542	0.00301	1	09/17/2019 18:24	WG1347115
Chloroethane	U		0.00130	0.00602	1	09/17/2019 18:24	WG1347115
Chloroform	0.000914 J	J	0.000500	0.00301	1	09/17/2019 18:24	WG1347115
Chloromethane	U		0.00167	0.0151	1	09/17/2019 18:24	WG1347115
2-Chlorotoluene	U		0.00111	0.00301	1	09/17/2019 18:24	WG1347115
4-Chlorotoluene	U		0.00136	0.00602	1	09/17/2019 18:24	WG1347115
1,2-Dibromo-3-Chloropropane	U		0.00614	0.0301	1	09/17/2019 18:24	WG1347115
1,2-Dibromoethane	U		0.000632	0.00301	1	09/17/2019 18:24	WG1347115
Dibromomethane	U		0.00120	0.00602	1	09/17/2019 18:24	WG1347115
1,2-Dichlorobenzene	U		0.00175	0.00602	1	09/17/2019 18:24	WG1347115
1,3-Dichlorobenzene	U		0.00205	0.00602	1	09/17/2019 18:24	WG1347115
1,4-Dichlorobenzene	U		0.00237	0.00602	1	09/17/2019 18:24	WG1347115
Dichlorodifluoromethane	U		0.000985	0.00301	1	09/17/2019 18:24	WG1347115
1,1-Dichloroethane	U		0.000693	0.00301	1	09/17/2019 18:24	WG1347115
1,2-Dichloroethane	U		0.000572	0.00301	1	09/17/2019 18:24	WG1347115
1,1-Dichloroethene	U		0.000602	0.00301	1	09/17/2019 18:24	WG1347115
cis-1,2-Dichloroethene	0.0617		0.000831	0.00301	1	09/17/2019 18:24	WG1347115
trans-1,2-Dichloroethene	U		0.00172	0.00602	1	09/17/2019 18:24	WG1347115
1,2-Dichloropropane	U		0.00153	0.00602	1	09/17/2019 18:24	WG1347115
1,1-Dichloropropene	U		0.000843	0.00301	1	09/17/2019 18:24	WG1347115
1,3-Dichloropropane	U		0.00211	0.00602	1	09/17/2019 18:24	WG1347115
cis-1,3-Dichloropropene	U		0.000817	0.00301	1	09/17/2019 18:24	WG1347115
trans-1,3-Dichloropropene	U		0.00184	0.00602	1	09/17/2019 18:24	WG1347115
trans-1,4-Dichloro-2-butene	U		0.00169	0.00602	1	09/17/2019 18:24	WG1347115
2,2-Dichloropropane	U		0.000955	0.00301	1	09/17/2019 18:24	WG1347115
Di-isopropyl ether	U		0.000422	0.00120	1	09/17/2019 18:24	WG1347115
Ethylbenzene	U		0.000638	0.00301	1	09/17/2019 18:24	WG1347115
Hexachloro-1,3-butadiene	U		0.0153	0.0301	1	09/17/2019 18:24	WG1347115
2-Hexanone	U		0.0120	0.0301	1	09/17/2019 18:24	WG1347115
n-Hexane	0.00229 J	J	0.00128	0.00602	1	09/17/2019 18:24	WG1347115
Iodomethane	U		0.00729	0.0151	1	09/17/2019 18:24	WG1347115
Isopropylbenzene	U		0.00104	0.00301	1	09/17/2019 18:24	WG1347115
p-Isopropyltoluene	U		0.00281	0.00602	1	09/17/2019 18:24	WG1347115
2-Butanone (MEK)	U		0.0151	0.0301	1	09/17/2019 18:24	WG1347115
Methylene Chloride	0.00974 J	J	0.00800	0.0301	1	09/17/2019 18:24	WG1347115
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0301	1	09/17/2019 18:24	WG1347115

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000355	0.00120	1	09/17/2019 18:24	WG1347115
Naphthalene	U		0.00376	0.0151	1	09/17/2019 18:24	WG1347115
n-Propylbenzene	U		0.00142	0.00602	1	09/17/2019 18:24	WG1347115
Styrene	U		0.00329	0.0151	1	09/17/2019 18:24	WG1347115
1,1,1,2-Tetrachloroethane	U		0.000602	0.00301	1	09/17/2019 18:24	WG1347115
1,1,2,2-Tetrachloroethane	U		0.000470	0.00301	1	09/17/2019 18:24	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.000813	0.00301	1	09/17/2019 18:24	WG1347115
Tetrachloroethene	U		0.000843	0.00301	1	09/17/2019 18:24	WG1347115
Toluene	0.00790		0.00151	0.00602	1	09/17/2019 18:24	WG1347115
1,2,3-Trichlorobenzene	U		0.000753	0.00301	1	09/17/2019 18:24	WG1347115
1,2,4-Trichlorobenzene	U		0.00581	0.0151	1	09/17/2019 18:24	WG1347115
1,1,1-Trichloroethane	U		0.000331	0.00301	1	09/17/2019 18:24	WG1347115
1,1,2-Trichloroethane	U		0.00106	0.00301	1	09/17/2019 18:24	WG1347115
Trichloroethene	0.00169		0.000482	0.00120	1	09/17/2019 18:24	WG1347115
Trichlorofluoromethane	0.00224	J J	0.000602	0.00301	1	09/17/2019 18:24	WG1347115
1,2,3-Trichloropropane	U		0.00614	0.0151	1	09/17/2019 18:24	WG1347115
1,2,4-Trimethylbenzene	U		0.00140	0.00602	1	09/17/2019 18:24	WG1347115
1,2,3-Trimethylbenzene	U		0.00139	0.00602	1	09/17/2019 18:24	WG1347115
1,3,5-Trimethylbenzene	U		0.00130	0.00602	1	09/17/2019 18:24	WG1347115
Vinyl acetate	U		0.00424	0.0151	1	09/17/2019 18:24	WG1347115
Vinyl chloride	U		0.000823	0.00301	1	09/17/2019 18:24	WG1347115
Xylenes, Total	U		0.00576	0.00783	1	09/17/2019 18:24	WG1347115
(S) Toluene-d8	*105*			*75.0-131*		*09/17/2019 18:24*	WG1347115
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/17/2019 18:24*	WG1347115
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*09/17/2019 18:24*	WG1347115

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.5		1	09/18/2019 13:22	WG1347351

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U	J3	0.0157	0.0286	1	09/17/2019 18:44	WG1347115	
Acrylonitrile	U		0.00217	0.0143	1	09/17/2019 18:44	WG1347115	
Benzene	U		0.000457	0.00114	1	09/17/2019 18:44	WG1347115	
Bromobenzene	U		0.00120	0.0143	1	09/17/2019 18:44	WG1347115	
Bromodichloromethane	U		0.000901	0.00286	1	09/17/2019 18:44	WG1347115	
Bromochloromethane	U		0.00129	0.00572	1	09/17/2019 18:44	WG1347115	
Bromoform	U		0.00684	0.0286	1	09/17/2019 18:44	WG1347115	
Bromomethane	U		0.00423	0.0143	1	09/17/2019 18:44	WG1347115	
n-Butylbenzene	U		0.00439	0.0143	1	09/17/2019 18:44	WG1347115	
sec-Butylbenzene	U		0.00289	0.0143	1	09/17/2019 18:44	WG1347115	
tert-Butylbenzene	U		0.00177	0.00572	1	09/17/2019 18:44	WG1347115	
Carbon disulfide	U		0.00464	0.0143	1	09/17/2019 18:44	WG1347115	
Carbon tetrachloride	U		0.00123	0.00572	1	09/17/2019 18:44	WG1347115	
Chlorobenzene	U		0.000655	0.00286	1	09/17/2019 18:44	WG1347115	
Chlorodibromomethane	U		0.000514	0.00286	1	09/17/2019 18:44	WG1347115	
Chloroethane	U		0.00123	0.00572	1	09/17/2019 18:44	WG1347115	
Chloroform	U		0.000474	0.00286	1	09/17/2019 18:44	WG1347115	
Chloromethane	U		0.00159	0.0143	1	09/17/2019 18:44	WG1347115	
2-Chlorotoluene	U		0.00105	0.00286	1	09/17/2019 18:44	WG1347115	
4-Chlorotoluene	U		0.00129	0.00572	1	09/17/2019 18:44	WG1347115	
1,2-Dibromo-3-Chloropropane	U		0.00583	0.0286	1	09/17/2019 18:44	WG1347115	
1,2-Dibromoethane	U		0.000600	0.00286	1	09/17/2019 18:44	WG1347115	
Dibromomethane	U		0.00114	0.00572	1	09/17/2019 18:44	WG1347115	
1,2-Dichlorobenzene	U		0.00166	0.00572	1	09/17/2019 18:44	WG1347115	
1,3-Dichlorobenzene	U		0.00194	0.00572	1	09/17/2019 18:44	WG1347115	
1,4-Dichlorobenzene	U		0.00225	0.00572	1	09/17/2019 18:44	WG1347115	
Dichlorodifluoromethane	U		0.000935	0.00286	1	09/17/2019 18:44	WG1347115	
1,1-Dichloroethane	U		0.000657	0.00286	1	09/17/2019 18:44	WG1347115	
1,2-Dichloroethane	U		0.000543	0.00286	1	09/17/2019 18:44	WG1347115	
1,1-Dichloroethene	U		0.000572	0.00286	1	09/17/2019 18:44	WG1347115	
cis-1,2-Dichloroethene	0.00570		0.000789	0.00286	1	09/17/2019 18:44	WG1347115	
trans-1,2-Dichloroethene	U		0.00163	0.00572	1	09/17/2019 18:44	WG1347115	
1,2-Dichloropropane	U		0.00145	0.00572	1	09/17/2019 18:44	WG1347115	
1,1-Dichloropropene	U		0.000800	0.00286	1	09/17/2019 18:44	WG1347115	
1,3-Dichloropropane	U		0.00200	0.00572	1	09/17/2019 18:44	WG1347115	
cis-1,3-Dichloropropene	U		0.000775	0.00286	1	09/17/2019 18:44	WG1347115	
trans-1,3-Dichloropropene	U		0.00175	0.00572	1	09/17/2019 18:44	WG1347115	
trans-1,4-Dichloro-2-butene	U		0.00160	0.00572	1	09/17/2019 18:44	WG1347115	
2,2-Dichloropropane	U		0.000907	0.00286	1	09/17/2019 18:44	WG1347115	
Di-isopropyl ether	U		0.000400	0.00114	1	09/17/2019 18:44	WG1347115	
Ethylbenzene	U		0.000606	0.00286	1	09/17/2019 18:44	WG1347115	
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	09/17/2019 18:44	WG1347115	
2-Hexanone	U		0.0114	0.0286	1	09/17/2019 18:44	WG1347115	
n-Hexane	U		0.00121	0.00572	1	09/17/2019 18:44	WG1347115	
Iodomethane	U		0.00692	0.0143	1	09/17/2019 18:44	WG1347115	
Isopropylbenzene	U		0.000987	0.00286	1	09/17/2019 18:44	WG1347115	
p-Isopropyltoluene	U		0.00266	0.00572	1	09/17/2019 18:44	WG1347115	
2-Butanone (MEK)	0.0161 J	J	0.0143	0.0286	1	09/17/2019 18:44	WG1347115	
Methylene Chloride	0.0118 J	J	0.00759	0.0286	1	09/17/2019 18:44	WG1347115	
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	09/17/2019 18:44	WG1347115	JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000337	0.00114	1	09/17/2019 18:44	WG1347115
Naphthalene	U		0.00357	0.0143	1	09/17/2019 18:44	WG1347115
n-Propylbenzene	U		0.00135	0.00572	1	09/17/2019 18:44	WG1347115
Styrene	U		0.00312	0.0143	1	09/17/2019 18:44	WG1347115
1,1,1,2-Tetrachloroethane	U		0.000572	0.00286	1	09/17/2019 18:44	WG1347115
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1	09/17/2019 18:44	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.000772	0.00286	1	09/17/2019 18:44	WG1347115
Tetrachloroethene	0.101 J	J0	0.000800	0.00286	1	09/17/2019 18:44	WG1347115
Toluene	0.00480 J	J	0.00143	0.00572	1	09/17/2019 18:44	WG1347115
1,2,3-Trichlorobenzene	U		0.000715	0.00286	1	09/17/2019 18:44	WG1347115
1,2,4-Trichlorobenzene	U		0.00551	0.0143	1	09/17/2019 18:44	WG1347115
1,1,1-Trichloroethane	U		0.000314	0.00286	1	09/17/2019 18:44	WG1347115
1,1,2-Trichloroethane	U		0.00101	0.00286	1	09/17/2019 18:44	WG1347115
Trichloroethene	0.0145		0.000457	0.00114	1	09/17/2019 18:44	WG1347115
Trichlorofluoromethane	0.00227 J	J	0.000572	0.00286	1	09/17/2019 18:44	WG1347115
1,2,3-Trichloropropane	U		0.00583	0.0143	1	09/17/2019 18:44	WG1347115
1,2,4-Trimethylbenzene	U		0.00133	0.00572	1	09/17/2019 18:44	WG1347115
1,2,3-Trimethylbenzene	U		0.00131	0.00572	1	09/17/2019 18:44	WG1347115
1,3,5-Trimethylbenzene	U		0.00123	0.00572	1	09/17/2019 18:44	WG1347115
Vinyl acetate	U		0.00402	0.0143	1	09/17/2019 18:44	WG1347115
Vinyl chloride	U		0.000781	0.00286	1	09/17/2019 18:44	WG1347115
Xylenes, Total	U		0.00546	0.00743	1	09/17/2019 18:44	WG1347115
(S) Toluene-d8	*103*			*75.0-131*		*09/17/2019 18:44*	WG1347115
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/17/2019 18:44*	WG1347115
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/17/2019 18:44*	WG1347115

JC 10/24/19

MW-326-55
Collected date/time: 09/09/19 13:50

SAMPLE RESULTS - 13

L1138822

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.2		1	09/18/2019 13:22	WG1347351

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0280 U	J J0 J3	0.0167	0.0304	1	09/17/2019 19:05	WG1347115
Acrylonitrile	U		0.00231	0.0152	1	09/17/2019 19:05	WG1347115
Benzene	U		0.000487	0.00122	1	09/17/2019 19:05	WG1347115
Bromobenzene	U		0.00128	0.0152	1	09/17/2019 19:05	WG1347115
Bromodichloromethane	U		0.000959	0.00304	1	09/17/2019 19:05	WG1347115
Bromochloromethane	U		0.00137	0.00608	1	09/17/2019 19:05	WG1347115
Bromoform	U		0.00727	0.0304	1	09/17/2019 19:05	WG1347115
Bromomethane	U		0.00450	0.0152	1	09/17/2019 19:05	WG1347115
n-Butylbenzene	U		0.00467	0.0152	1	09/17/2019 19:05	WG1347115
sec-Butylbenzene	U		0.00308	0.0152	1	09/17/2019 19:05	WG1347115
tert-Butylbenzene	U		0.00189	0.00608	1	09/17/2019 19:05	WG1347115
Carbon disulfide	U		0.00494	0.0152	1	09/17/2019 19:05	WG1347115
Carbon tetrachloride	U		0.00131	0.00608	1	09/17/2019 19:05	WG1347115
Chlorobenzene	U		0.000697	0.00304	1	09/17/2019 19:05	WG1347115
Chlorodibromomethane	U		0.000547	0.00304	1	09/17/2019 19:05	WG1347115
Chloroethane	U		0.00131	0.00608	1	09/17/2019 19:05	WG1347115
Chloroform	U		0.000505	0.00304	1	09/17/2019 19:05	WG1347115
Chloromethane	U		0.00169	0.0152	1	09/17/2019 19:05	WG1347115
2-Chlorotoluene	U		0.00112	0.00304	1	09/17/2019 19:05	WG1347115
4-Chlorotoluene	U		0.00137	0.00608	1	09/17/2019 19:05	WG1347115
1,2-Dibromo-3-Chloropropane	U		0.00620	0.0304	1	09/17/2019 19:05	WG1347115
1,2-Dibromoethane	U		0.000639	0.00304	1	09/17/2019 19:05	WG1347115
Dibromomethane	U		0.00122	0.00608	1	09/17/2019 19:05	WG1347115
1,2-Dichlorobenzene	U		0.00176	0.00608	1	09/17/2019 19:05	WG1347115
1,3-Dichlorobenzene	U		0.00207	0.00608	1	09/17/2019 19:05	WG1347115
1,4-Dichlorobenzene	U		0.00240	0.00608	1	09/17/2019 19:05	WG1347115
Dichlorodifluoromethane	U		0.000995	0.00304	1	09/17/2019 19:05	WG1347115
1,1-Dichloroethane	U		0.000699	0.00304	1	09/17/2019 19:05	WG1347115
1,2-Dichloroethane	U		0.000578	0.00304	1	09/17/2019 19:05	WG1347115
1,1-Dichloroethene	U		0.000608	0.00304	1	09/17/2019 19:05	WG1347115
cis-1,2-Dichloroethene	0.0150		0.000839	0.00304	1	09/17/2019 19:05	WG1347115
trans-1,2-Dichloroethene	U		0.00174	0.00608	1	09/17/2019 19:05	WG1347115
1,2-Dichloropropane	U		0.00154	0.00608	1	09/17/2019 19:05	WG1347115
1,1-Dichloropropene	U		0.000852	0.00304	1	09/17/2019 19:05	WG1347115
1,3-Dichloropropane	U		0.00213	0.00608	1	09/17/2019 19:05	WG1347115
cis-1,3-Dichloropropene	U		0.000825	0.00304	1	09/17/2019 19:05	WG1347115
trans-1,3-Dichloropropene	U		0.00186	0.00608	1	09/17/2019 19:05	WG1347115
trans-1,4-Dichloro-2-butene	U		0.00170	0.00608	1	09/17/2019 19:05	WG1347115
2,2-Dichloropropane	U		0.000965	0.00304	1	09/17/2019 19:05	WG1347115
Di-isopropyl ether	U		0.000426	0.00122	1	09/17/2019 19:05	WG1347115
Ethylbenzene	U		0.000645	0.00304	1	09/17/2019 19:05	WG1347115
Hexachloro-1,3-butadiene	U		0.0154	0.0304	1	09/17/2019 19:05	WG1347115
2-Hexanone	U		0.0122	0.0304	1	09/17/2019 19:05	WG1347115
n-Hexane	0.00564 J	J	0.00129	0.00608	1	09/17/2019 19:05	WG1347115
Iodomethane	U		0.00736	0.0152	1	09/17/2019 19:05	WG1347115
Isopropylbenzene	U		0.00105	0.00304	1	09/17/2019 19:05	WG1347115
p-Isopropyltoluene	U		0.00283	0.00608	1	09/17/2019 19:05	WG1347115
2-Butanone (MEK)	U		0.0152	0.0304	1	09/17/2019 19:05	WG1347115
Methylene Chloride	0.0149 J	J	0.00808	0.0304	1	09/17/2019 19:05	WG1347115
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0304	1	09/17/2019 19:05	WG1347115

JC 10/24/19

MW-326-55

Collected date/time: 09/09/19 13:50

SAMPLE RESULTS - 13

L1138822

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000359	0.00122	1	09/17/2019 19:05	WG1347115
Naphthalene	U		0.00380	0.0152	1	09/17/2019 19:05	WG1347115
n-Propylbenzene	U		0.00144	0.00608	1	09/17/2019 19:05	WG1347115
Styrene	U		0.00332	0.0152	1	09/17/2019 19:05	WG1347115
1,1,1,2-Tetrachloroethane	U		0.000608	0.00304	1	09/17/2019 19:05	WG1347115
1,1,2,2-Tetrachloroethane	U		0.000474	0.00304	1	09/17/2019 19:05	WG1347115
1,1,2-Trichlorotrifluoroethane	U		0.000821	0.00304	1	09/17/2019 19:05	WG1347115
Tetrachloroethene	0.00106 U	J J0	0.000852	0.00304	1	09/17/2019 19:05	WG1347115
Toluene	0.0143		0.00152	0.00608	1	09/17/2019 19:05	WG1347115
1,2,3-Trichlorobenzene	U		0.000760	0.00304	1	09/17/2019 19:05	WG1347115
1,2,4-Trichlorobenzene	U		0.00586	0.0152	1	09/17/2019 19:05	WG1347115
1,1,1-Trichloroethane	U		0.000335	0.00304	1	09/17/2019 19:05	WG1347115
1,1,2-Trichloroethane	U		0.00107	0.00304	1	09/17/2019 19:05	WG1347115
Trichloroethene	U		0.000487	0.00122	1	09/17/2019 19:05	WG1347115
Trichlorofluoromethane	0.00346		0.000608	0.00304	1	09/17/2019 19:05	WG1347115
1,2,3-Trichloropropane	U		0.00620	0.0152	1	09/17/2019 19:05	WG1347115
1,2,4-Trimethylbenzene	U		0.00141	0.00608	1	09/17/2019 19:05	WG1347115
1,2,3-Trimethylbenzene	U		0.00140	0.00608	1	09/17/2019 19:05	WG1347115
1,3,5-Trimethylbenzene	U		0.00131	0.00608	1	09/17/2019 19:05	WG1347115
Vinyl acetate	U		0.00428	0.0152	1	09/17/2019 19:05	WG1347115
Vinyl chloride	U		0.000831	0.00304	1	09/17/2019 19:05	WG1347115
Xylenes, Total	U		0.00581	0.00791	1	09/17/2019 19:05	WG1347115
(S) Toluene-d8	*107*			*75.0-131*		*09/17/2019 19:05*	WG1347115
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/17/2019 19:05*	WG1347115
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*		*09/17/2019 19:05*	WG1347115

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.0		1	09/18/2019 13:22	WG1347351

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0283		0.0149	0.0272	1	09/19/2019 12:37	WG1348265
Acrylonitrile	U		0.00206	0.0136	1	09/19/2019 12:37	WG1348265
Benzene	U		0.000435	0.00109	1	09/19/2019 12:37	WG1348265
Bromobenzene	U		0.00114	0.0136	1	09/19/2019 12:37	WG1348265
Bromodichloromethane	U		0.000856	0.00272	1	09/19/2019 12:37	WG1348265
Bromochloromethane	U		0.00123	0.00543	1	09/19/2019 12:37	WG1348265
Bromoform	U		0.00650	0.0272	1	09/19/2019 12:37	WG1348265
Bromomethane	U		0.00402	0.0136	1	09/19/2019 12:37	WG1348265
n-Butylbenzene	U		0.00417	0.0136	1	09/19/2019 12:37	WG1348265
sec-Butylbenzene	U		0.00275	0.0136	1	09/19/2019 12:37	WG1348265
tert-Butylbenzene	U		0.00168	0.00543	1	09/19/2019 12:37	WG1348265
Carbon disulfide	U		0.00441	0.0136	1	09/19/2019 12:37	WG1348265
Carbon tetrachloride	U		0.00117	0.00543	1	09/19/2019 12:37	WG1348265
Chlorobenzene	U		0.000623	0.00272	1	09/19/2019 12:37	WG1348265
Chlorodibromomethane	U		0.000489	0.00272	1	09/19/2019 12:37	WG1348265
Chloroethane	U		0.00117	0.00543	1	09/19/2019 12:37	WG1348265
Chloroform	0.000525 U	B J	0.000451	0.00272	1	09/19/2019 12:37	WG1348265
Chloromethane	U		0.00151	0.0136	1	09/19/2019 12:37	WG1348265
2-Chlorotoluene	U		0.00100	0.00272	1	09/19/2019 12:37	WG1348265
4-Chlorotoluene	U		0.00123	0.00543	1	09/19/2019 12:37	WG1348265
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00554	0.0272	1	09/19/2019 12:37	WG1348265
1,2-Dibromoethane	U		0.000571	0.00272	1	09/19/2019 12:37	WG1348265
Dibromomethane	U		0.00109	0.00543	1	09/19/2019 12:37	WG1348265
1,2-Dichlorobenzene	U		0.00158	0.00543	1	09/19/2019 12:37	WG1348265
1,3-Dichlorobenzene	U		0.00185	0.00543	1	09/19/2019 12:37	WG1348265
1,4-Dichlorobenzene	U		0.00214	0.00543	1	09/19/2019 12:37	WG1348265
Dichlorodifluoromethane	U		0.000889	0.00272	1	09/19/2019 12:37	WG1348265
1,1-Dichloroethane	U		0.000625	0.00272	1	09/19/2019 12:37	WG1348265
1,2-Dichloroethane	U		0.000516	0.00272	1	09/19/2019 12:37	WG1348265
1,1-Dichloroethene	U		0.000543	0.00272	1	09/19/2019 12:37	WG1348265
cis-1,2-Dichloroethene	0.00433		0.000750	0.00272	1	09/19/2019 12:37	WG1348265
trans-1,2-Dichloroethene	U		0.00155	0.00543	1	09/19/2019 12:37	WG1348265
1,2-Dichloropropane	U		0.00138	0.00543	1	09/19/2019 12:37	WG1348265
1,1-Dichloropropene	U		0.000761	0.00272	1	09/19/2019 12:37	WG1348265
1,3-Dichloropropane	U		0.00190	0.00543	1	09/19/2019 12:37	WG1348265
cis-1,3-Dichloropropene	U		0.000737	0.00272	1	09/19/2019 12:37	WG1348265
trans-1,3-Dichloropropene	U		0.00166	0.00543	1	09/19/2019 12:37	WG1348265
trans-1,4-Dichloro-2-butene	U		0.00152	0.00543	1	09/19/2019 12:37	WG1348265
2,2-Dichloropropane	U		0.000862	0.00272	1	09/19/2019 12:37	WG1348265
Di-isopropyl ether	U		0.000380	0.00109	1	09/19/2019 12:37	WG1348265
Ethylbenzene	U		0.000576	0.00272	1	09/19/2019 12:37	WG1348265
Hexachloro-1,3-butadiene	U		0.0138	0.0272	1	09/19/2019 12:37	WG1348265
2-Hexanone	U		0.0109	0.0272	1	09/19/2019 12:37	WG1348265
n-Hexane	U		0.00115	0.00543	1	09/19/2019 12:37	WG1348265
Iodomethane	U		0.00658	0.0136	1	09/19/2019 12:37	WG1348265
Isopropylbenzene	U		0.000938	0.00272	1	09/19/2019 12:37	WG1348265
p-Isopropyltoluene	U		0.00253	0.00543	1	09/19/2019 12:37	WG1348265
2-Butanone (MEK)	0.0221 U	B J	0.0136	0.0272	1	09/19/2019 12:37	WG1348265
Methylene Chloride	0.0105 J	J	0.00722	0.0272	1	09/19/2019 12:37	WG1348265
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	09/19/2019 12:37	WG1348265

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000321	0.00109	1	09/19/2019 12:37	WG1348265
Naphthalene	U		0.00339	0.0136	1	09/19/2019 12:37	WG1348265
n-Propylbenzene	U		0.00128	0.00543	1	09/19/2019 12:37	WG1348265
Styrene	U		0.00297	0.0136	1	09/19/2019 12:37	WG1348265
1,1,1,2-Tetrachloroethane	U		0.000543	0.00272	1	09/19/2019 12:37	WG1348265
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	09/19/2019 12:37	WG1348265
1,1,2-Trichlorotrifluoroethane	U		0.000734	0.00272	1	09/19/2019 12:37	WG1348265
Tetrachloroethene	U		0.000761	0.00272	1	09/19/2019 12:37	WG1348265
Toluene	0.00380 J	J	0.00136	0.00543	1	09/19/2019 12:37	WG1348265
1,2,3-Trichlorobenzene	U		0.000679	0.00272	1	09/19/2019 12:37	WG1348265
1,2,4-Trichlorobenzene	U		0.00524	0.0136	1	09/19/2019 12:37	WG1348265
1,1,1-Trichloroethane	U		0.000299	0.00272	1	09/19/2019 12:37	WG1348265
1,1,2-Trichloroethane	U		0.000960	0.00272	1	09/19/2019 12:37	WG1348265
Trichloroethene	U		0.000435	0.00109	1	09/19/2019 12:37	WG1348265
Trichlorofluoromethane	U		0.000543	0.00272	1	09/19/2019 12:37	WG1348265
1,2,3-Trichloropropane	U		0.00554	0.0136	1	09/19/2019 12:37	WG1348265
1,2,4-Trimethylbenzene	U		0.00126	0.00543	1	09/19/2019 12:37	WG1348265
1,2,3-Trimethylbenzene	U		0.00125	0.00543	1	09/19/2019 12:37	WG1348265
1,3,5-Trimethylbenzene	U		0.00117	0.00543	1	09/19/2019 12:37	WG1348265
Vinyl acetate	U		0.00383	0.0136	1	09/19/2019 12:37	WG1348265
Vinyl chloride	U		0.000742	0.00272	1	09/19/2019 12:37	WG1348265
Xylenes, Total	U		0.00520	0.00706	1	09/19/2019 12:37	WG1348265
(S) Toluene-d8	*107*			*75.0-131*		*09/19/2019 12:37*	WG1348265
(S) 4-Bromofluorobenzene	*98.5*			*67.0-138*		*09/19/2019 12:37*	WG1348265
(S) 1,2-Dichloroethane-d4	*95.0*			*70.0-130*		*09/19/2019 12:37*	WG1348265

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.3		1	09/18/2019 13:22	WG1347351

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0224 U	J	0.0159	0.0290	1	09/18/2019 08:22	WG1347118
Acrylonitrile	U		0.00220	0.0145	1	09/18/2019 08:22	WG1347118
Benzene	0.000517 J	J	0.000464	0.00116	1	09/18/2019 08:22	WG1347118
Bromobenzene	U		0.00122	0.0145	1	09/18/2019 08:22	WG1347118
Bromodichloromethane	U		0.000913	0.00290	1	09/18/2019 08:22	WG1347118
Bromochloromethane	U		0.00131	0.00580	1	09/18/2019 08:22	WG1347118
Bromoform	U		0.00693	0.0290	1	09/18/2019 08:22	WG1347118
Bromomethane	U		0.00429	0.0145	1	09/18/2019 08:22	WG1347118
n-Butylbenzene	U		0.00445	0.0145	1	09/18/2019 08:22	WG1347118
sec-Butylbenzene	U		0.00293	0.0145	1	09/18/2019 08:22	WG1347118
tert-Butylbenzene	U		0.00180	0.00580	1	09/18/2019 08:22	WG1347118
Carbon disulfide	U		0.00471	0.0145	1	09/18/2019 08:22	WG1347118
Carbon tetrachloride	U		0.00125	0.00580	1	09/18/2019 08:22	WG1347118
Chlorobenzene	U		0.000664	0.00290	1	09/18/2019 08:22	WG1347118
Chlorodibromomethane	U		0.000522	0.00290	1	09/18/2019 08:22	WG1347118
Chloroethane	U		0.00125	0.00580	1	09/18/2019 08:22	WG1347118
Chloroform	U		0.000481	0.00290	1	09/18/2019 08:22	WG1347118
Chloromethane	U		0.00161	0.0145	1	09/18/2019 08:22	WG1347118
2-Chlorotoluene	U		0.00107	0.00290	1	09/18/2019 08:22	WG1347118
4-Chlorotoluene	U		0.00131	0.00580	1	09/18/2019 08:22	WG1347118
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00591	0.0290	1	09/18/2019 08:22	WG1347118
1,2-Dibromoethane	U		0.000609	0.00290	1	09/18/2019 08:22	WG1347118
Dibromomethane	U		0.00116	0.00580	1	09/18/2019 08:22	WG1347118
1,2-Dichlorobenzene	U		0.00168	0.00580	1	09/18/2019 08:22	WG1347118
1,3-Dichlorobenzene	U		0.00197	0.00580	1	09/18/2019 08:22	WG1347118
1,4-Dichlorobenzene	U		0.00228	0.00580	1	09/18/2019 08:22	WG1347118
Dichlorodifluoromethane	U		0.000948	0.00290	1	09/18/2019 08:22	WG1347118
1,1-Dichloroethane	U		0.000667	0.00290	1	09/18/2019 08:22	WG1347118
1,2-Dichloroethane	U		0.000551	0.00290	1	09/18/2019 08:22	WG1347118
1,1-Dichloroethene	U		0.000580	0.00290	1	09/18/2019 08:22	WG1347118
cis-1,2-Dichloroethene	0.00508		0.000800	0.00290	1	09/18/2019 08:22	WG1347118
trans-1,2-Dichloroethene	U		0.00166	0.00580	1	09/18/2019 08:22	WG1347118
1,2-Dichloropropane	U		0.00147	0.00580	1	09/18/2019 08:22	WG1347118
1,1-Dichloropropene	U		0.000811	0.00290	1	09/18/2019 08:22	WG1347118
1,3-Dichloropropane	U		0.00203	0.00580	1	09/18/2019 08:22	WG1347118
cis-1,3-Dichloropropene	U		0.000786	0.00290	1	09/18/2019 08:22	WG1347118
trans-1,3-Dichloropropene	U		0.00177	0.00580	1	09/18/2019 08:22	WG1347118
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00162	0.00580	1	09/18/2019 08:22	WG1347118
2,2-Dichloropropane	U		0.000919	0.00290	1	09/18/2019 08:22	WG1347118
Di-isopropyl ether	U		0.000406	0.00116	1	09/18/2019 08:22	WG1347118
Ethylbenzene	U		0.000614	0.00290	1	09/18/2019 08:22	WG1347118
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	09/18/2019 08:22	WG1347118
2-Hexanone	U		0.0116	0.0290	1	09/18/2019 08:22	WG1347118
n-Hexane	0.00400 J	J	0.00123	0.00580	1	09/18/2019 08:22	WG1347118
Iodomethane	U		0.00701	0.0145	1	09/18/2019 08:22	WG1347118
Isopropylbenzene	U		0.00100	0.00290	1	09/18/2019 08:22	WG1347118
p-Isopropyltoluene	U		0.00270	0.00580	1	09/18/2019 08:22	WG1347118
2-Butanone (MEK)	U		0.0145	0.0290	1	09/18/2019 08:22	WG1347118
Methylene Chloride	0.00785 U	B J	0.00770	0.0290	1	09/18/2019 08:22	WG1347118
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	09/18/2019 08:22	WG1347118

JC 10/24/19

MW-326-65

Collected date/time: 09/09/19 14:18

SAMPLE RESULTS - 15

L1138822

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	09/18/2019 08:22	WG1347118
Naphthalene	U		0.00362	0.0145	1	09/18/2019 08:22	WG1347118
n-Propylbenzene	U		0.00137	0.00580	1	09/18/2019 08:22	WG1347118
Styrene	U		0.00316	0.0145	1	09/18/2019 08:22	WG1347118
1,1,1,2-Tetrachloroethane	U		0.000580	0.00290	1	09/18/2019 08:22	WG1347118
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000452	0.00290	1	09/18/2019 08:22	WG1347118
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	09/18/2019 08:22	WG1347118
Tetrachloroethene	0.00753		0.000811	0.00290	1	09/18/2019 08:22	WG1347118
Toluene	0.00667		0.00145	0.00580	1	09/18/2019 08:22	WG1347118
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	09/18/2019 08:22	WG1347118
1,2,4-Trichlorobenzene	U		0.00559	0.0145	1	09/18/2019 08:22	WG1347118
1,1,1-Trichloroethane	U		0.000319	0.00290	1	09/18/2019 08:22	WG1347118
1,1,2-Trichloroethane	U		0.00102	0.00290	1	09/18/2019 08:22	WG1347118
Trichloroethene	0.00243		0.000464	0.00116	1	09/18/2019 08:22	WG1347118
Trichlorofluoromethane	U		0.000580	0.00290	1	09/18/2019 08:22	WG1347118
1,2,3-Trichloropropane	U		0.00591	0.0145	1	09/18/2019 08:22	WG1347118
1,2,4-Trimethylbenzene	U		0.00134	0.00580	1	09/18/2019 08:22	WG1347118
1,2,3-Trimethylbenzene	U		0.00133	0.00580	1	09/18/2019 08:22	WG1347118
1,3,5-Trimethylbenzene	U		0.00125	0.00580	1	09/18/2019 08:22	WG1347118
Vinyl acetate	U		0.00408	0.0145	1	09/18/2019 08:22	WG1347118
Vinyl chloride	U		0.000792	0.00290	1	09/18/2019 08:22	WG1347118
Xylenes, Total	U		0.00554	0.00753	1	09/18/2019 08:22	WG1347118
(S) Toluene-d8	*107*			*75.0-131*		*09/18/2019 08:22*	WG1347118
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/18/2019 08:22*	WG1347118
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*09/18/2019 08:22*	WG1347118

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.1		1	09/18/2019 13:22	WG1347351

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0284 U	J	0.0167	0.0305	1	09/18/2019 08:42	WG1347118
Acrylonitrile	U		0.00232	0.0152	1	09/18/2019 08:42	WG1347118
Benzene	U		0.000487	0.00122	1	09/18/2019 08:42	WG1347118
Bromobenzene	U		0.00128	0.0152	1	09/18/2019 08:42	WG1347118
Bromodichloromethane	U		0.000960	0.00305	1	09/18/2019 08:42	WG1347118
Bromochloromethane	U		0.00138	0.00609	1	09/18/2019 08:42	WG1347118
Bromoform	U		0.00729	0.0305	1	09/18/2019 08:42	WG1347118
Bromomethane	U		0.00451	0.0152	1	09/18/2019 08:42	WG1347118
n-Butylbenzene	U		0.00468	0.0152	1	09/18/2019 08:42	WG1347118
sec-Butylbenzene	U		0.00308	0.0152	1	09/18/2019 08:42	WG1347118
tert-Butylbenzene	U		0.00189	0.00609	1	09/18/2019 08:42	WG1347118
Carbon disulfide	U		0.00495	0.0152	1	09/18/2019 08:42	WG1347118
Carbon tetrachloride	U		0.00132	0.00609	1	09/18/2019 08:42	WG1347118
Chlorobenzene	U		0.000698	0.00305	1	09/18/2019 08:42	WG1347118
Chlorodibromomethane	U		0.000548	0.00305	1	09/18/2019 08:42	WG1347118
Chloroethane	U		0.00132	0.00609	1	09/18/2019 08:42	WG1347118
Chloroform	0.000660 U	B J	0.000506	0.00305	1	09/18/2019 08:42	WG1347118
Chloromethane	U		0.00169	0.0152	1	09/18/2019 08:42	WG1347118
2-Chlorotoluene	U		0.00112	0.00305	1	09/18/2019 08:42	WG1347118
4-Chlorotoluene	U		0.00138	0.00609	1	09/18/2019 08:42	WG1347118
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00621	0.0305	1	09/18/2019 08:42	WG1347118
1,2-Dibromoethane	U		0.000640	0.00305	1	09/18/2019 08:42	WG1347118
Dibromomethane	U		0.00122	0.00609	1	09/18/2019 08:42	WG1347118
1,2-Dichlorobenzene	U		0.00177	0.00609	1	09/18/2019 08:42	WG1347118
1,3-Dichlorobenzene	U		0.00207	0.00609	1	09/18/2019 08:42	WG1347118
1,4-Dichlorobenzene	U		0.00240	0.00609	1	09/18/2019 08:42	WG1347118
Dichlorodifluoromethane	U		0.000997	0.00305	1	09/18/2019 08:42	WG1347118
1,1-Dichloroethane	U		0.000701	0.00305	1	09/18/2019 08:42	WG1347118
1,2-Dichloroethane	U		0.000579	0.00305	1	09/18/2019 08:42	WG1347118
1,1-Dichloroethene	U		0.000609	0.00305	1	09/18/2019 08:42	WG1347118
cis-1,2-Dichloroethene	0.00136 J	J	0.000841	0.00305	1	09/18/2019 08:42	WG1347118
trans-1,2-Dichloroethene	U		0.00174	0.00609	1	09/18/2019 08:42	WG1347118
1,2-Dichloropropane	U		0.00155	0.00609	1	09/18/2019 08:42	WG1347118
1,1-Dichloropropene	U		0.000853	0.00305	1	09/18/2019 08:42	WG1347118
1,3-Dichloropropane	U		0.00213	0.00609	1	09/18/2019 08:42	WG1347118
cis-1,3-Dichloropropene	U		0.000826	0.00305	1	09/18/2019 08:42	WG1347118
trans-1,3-Dichloropropene	U		0.00186	0.00609	1	09/18/2019 08:42	WG1347118
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00171	0.00609	1	09/18/2019 08:42	WG1347118
2,2-Dichloropropane	U		0.000966	0.00305	1	09/18/2019 08:42	WG1347118
Di-isopropyl ether	U		0.000426	0.00122	1	09/18/2019 08:42	WG1347118
Ethylbenzene	U		0.000646	0.00305	1	09/18/2019 08:42	WG1347118
Hexachloro-1,3-butadiene	U		0.0155	0.0305	1	09/18/2019 08:42	WG1347118
2-Hexanone	U		0.0122	0.0305	1	09/18/2019 08:42	WG1347118
n-Hexane	0.00325 J	J	0.00129	0.00609	1	09/18/2019 08:42	WG1347118
Iodomethane	U		0.00737	0.0152	1	09/18/2019 08:42	WG1347118
Isopropylbenzene	U		0.00105	0.00305	1	09/18/2019 08:42	WG1347118
p-Isopropyltoluene	U		0.00284	0.00609	1	09/18/2019 08:42	WG1347118
2-Butanone (MEK)	U		0.0152	0.0305	1	09/18/2019 08:42	WG1347118
Methylene Chloride	0.00839 U	B J	0.00809	0.0305	1	09/18/2019 08:42	WG1347118
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0305	1	09/18/2019 08:42	WG1347118

JC 10/24/19

1 Cp
2 Tc
3 Ss
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8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000359	0.00122	1	09/18/2019 08:42	WG1347118
Naphthalene	U		0.00380	0.0152	1	09/18/2019 08:42	WG1347118
n-Propylbenzene	U		0.00144	0.00609	1	09/18/2019 08:42	WG1347118
Styrene	U		0.00333	0.0152	1	09/18/2019 08:42	WG1347118
1,1,1,2-Tetrachloroethane	U		0.000609	0.00305	1	09/18/2019 08:42	WG1347118
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000475	0.00305	1	09/18/2019 08:42	WG1347118
1,1,2-Trichlorotrifluoroethane	U		0.000822	0.00305	1	09/18/2019 08:42	WG1347118
Tetrachloroethene	U		0.000853	0.00305	1	09/18/2019 08:42	WG1347118
Toluene	0.00699		0.00152	0.00609	1	09/18/2019 08:42	WG1347118
1,2,3-Trichlorobenzene	U		0.000762	0.00305	1	09/18/2019 08:42	WG1347118
1,2,4-Trichlorobenzene	U		0.00587	0.0152	1	09/18/2019 08:42	WG1347118
1,1,1-Trichloroethane	U		0.000335	0.00305	1	09/18/2019 08:42	WG1347118
1,1,2-Trichloroethane	U		0.00108	0.00305	1	09/18/2019 08:42	WG1347118
Trichloroethene	U		0.000487	0.00122	1	09/18/2019 08:42	WG1347118
Trichlorofluoromethane	0.00210	J J	0.000609	0.00305	1	09/18/2019 08:42	WG1347118
1,2,3-Trichloropropane	U		0.00621	0.0152	1	09/18/2019 08:42	WG1347118
1,2,4-Trimethylbenzene	U		0.00141	0.00609	1	09/18/2019 08:42	WG1347118
1,2,3-Trimethylbenzene	U		0.00140	0.00609	1	09/18/2019 08:42	WG1347118
1,3,5-Trimethylbenzene	U		0.00132	0.00609	1	09/18/2019 08:42	WG1347118
Vinyl acetate	U		0.00429	0.0152	1	09/18/2019 08:42	WG1347118
Vinyl chloride	U		0.000832	0.00305	1	09/18/2019 08:42	WG1347118
Xylenes, Total	U		0.00582	0.00792	1	09/18/2019 08:42	WG1347118
(S) Toluene-d8	*105*			*75.0-131*		*09/18/2019 08:42*	WG1347118
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/18/2019 08:42*	WG1347118
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/18/2019 08:42*	WG1347118

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.5		1	09/18/2019 13:22	WG1347351

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0166	0.0303	1	09/18/2019 09:02	WG1347118
Acrylonitrile	U		0.00230	0.0152	1	09/18/2019 09:02	WG1347118
Benzene	U		0.000485	0.00121	1	09/18/2019 09:02	WG1347118
Bromobenzene	U		0.00127	0.0152	1	09/18/2019 09:02	WG1347118
Bromodichloromethane	U		0.000955	0.00303	1	09/18/2019 09:02	WG1347118
Bromochloromethane	U		0.00137	0.00606	1	09/18/2019 09:02	WG1347118
Bromoform	U		0.00725	0.0303	1	09/18/2019 09:02	WG1347118
Bromomethane	U		0.00449	0.0152	1	09/18/2019 09:02	WG1347118
n-Butylbenzene	U		0.00466	0.0152	1	09/18/2019 09:02	WG1347118
sec-Butylbenzene	U		0.00307	0.0152	1	09/18/2019 09:02	WG1347118
tert-Butylbenzene	U		0.00188	0.00606	1	09/18/2019 09:02	WG1347118
Carbon disulfide	U		0.00492	0.0152	1	09/18/2019 09:02	WG1347118
Carbon tetrachloride	U		0.00131	0.00606	1	09/18/2019 09:02	WG1347118
Chlorobenzene	U		0.000695	0.00303	1	09/18/2019 09:02	WG1347118
Chlorodibromomethane	U		0.000546	0.00303	1	09/18/2019 09:02	WG1347118
Chloroethane	U		0.00131	0.00606	1	09/18/2019 09:02	WG1347118
Chloroform	U		0.000503	0.00303	1	09/18/2019 09:02	WG1347118
Chloromethane	U		0.00169	0.0152	1	09/18/2019 09:02	WG1347118
2-Chlorotoluene	U		0.00112	0.00303	1	09/18/2019 09:02	WG1347118
4-Chlorotoluene	U		0.00137	0.00606	1	09/18/2019 09:02	WG1347118
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00618	0.0303	1	09/18/2019 09:02	WG1347118
1,2-Dibromoethane	U		0.000636	0.00303	1	09/18/2019 09:02	WG1347118
Dibromomethane	U		0.00121	0.00606	1	09/18/2019 09:02	WG1347118
1,2-Dichlorobenzene	U		0.00176	0.00606	1	09/18/2019 09:02	WG1347118
1,3-Dichlorobenzene	U		0.00206	0.00606	1	09/18/2019 09:02	WG1347118
1,4-Dichlorobenzene	U		0.00239	0.00606	1	09/18/2019 09:02	WG1347118
Dichlorodifluoromethane	U		0.000992	0.00303	1	09/18/2019 09:02	WG1347118
1,1-Dichloroethane	U		0.000697	0.00303	1	09/18/2019 09:02	WG1347118
1,2-Dichloroethane	U		0.000576	0.00303	1	09/18/2019 09:02	WG1347118
1,1-Dichloroethene	U		0.000606	0.00303	1	09/18/2019 09:02	WG1347118
cis-1,2-Dichloroethene	U		0.000836	0.00303	1	09/18/2019 09:02	WG1347118
trans-1,2-Dichloroethene	U		0.00173	0.00606	1	09/18/2019 09:02	WG1347118
1,2-Dichloropropane	U		0.00154	0.00606	1	09/18/2019 09:02	WG1347118
1,1-Dichloropropene	U		0.000849	0.00303	1	09/18/2019 09:02	WG1347118
1,3-Dichloropropane	U		0.00212	0.00606	1	09/18/2019 09:02	WG1347118
cis-1,3-Dichloropropene	U		0.000822	0.00303	1	09/18/2019 09:02	WG1347118
trans-1,3-Dichloropropene	U		0.00185	0.00606	1	09/18/2019 09:02	WG1347118
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00170	0.00606	1	09/18/2019 09:02	WG1347118
2,2-Dichloropropane	U		0.000961	0.00303	1	09/18/2019 09:02	WG1347118
Di-isopropyl ether	U		0.000424	0.00121	1	09/18/2019 09:02	WG1347118
Ethylbenzene	U		0.000643	0.00303	1	09/18/2019 09:02	WG1347118
Hexachloro-1,3-butadiene	U		0.0154	0.0303	1	09/18/2019 09:02	WG1347118
2-Hexanone	U		0.0121	0.0303	1	09/18/2019 09:02	WG1347118
n-Hexane	0.00330 J	J	0.00129	0.00606	1	09/18/2019 09:02	WG1347118
Iodomethane	U		0.00733	0.0152	1	09/18/2019 09:02	WG1347118
Isopropylbenzene	U		0.00105	0.00303	1	09/18/2019 09:02	WG1347118
p-Isopropyltoluene	U		0.00282	0.00606	1	09/18/2019 09:02	WG1347118
2-Butanone (MEK)	U		0.0152	0.0303	1	09/18/2019 09:02	WG1347118
Methylene Chloride	0.0122 U	B J	0.00805	0.0303	1	09/18/2019 09:02	WG1347118
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0303	1	09/18/2019 09:02	WG1347118

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000358	0.00121	1	09/18/2019 09:02	WG1347118
Naphthalene	U		0.00378	0.0152	1	09/18/2019 09:02	WG1347118
n-Propylbenzene	U		0.00143	0.00606	1	09/18/2019 09:02	WG1347118
Styrene	U		0.00331	0.0152	1	09/18/2019 09:02	WG1347118
1,1,1,2-Tetrachloroethane	U		0.000606	0.00303	1	09/18/2019 09:02	WG1347118
1,1,2,2-Tetrachloroethane	U UJ	J0	0.000473	0.00303	1	09/18/2019 09:02	WG1347118
1,1,2-Trichlorotrifluoroethane	U		0.000818	0.00303	1	09/18/2019 09:02	WG1347118
Tetrachloroethene	U		0.000849	0.00303	1	09/18/2019 09:02	WG1347118
Toluene	0.00783		0.00152	0.00606	1	09/18/2019 09:02	WG1347118
1,2,3-Trichlorobenzene	U		0.000758	0.00303	1	09/18/2019 09:02	WG1347118
1,2,4-Trichlorobenzene	U		0.00584	0.0152	1	09/18/2019 09:02	WG1347118
1,1,1-Trichloroethane	U		0.000333	0.00303	1	09/18/2019 09:02	WG1347118
1,1,2-Trichloroethane	U		0.00107	0.00303	1	09/18/2019 09:02	WG1347118
Trichloroethene	U		0.000485	0.00121	1	09/18/2019 09:02	WG1347118
Trichlorofluoromethane	U		0.000606	0.00303	1	09/18/2019 09:02	WG1347118
1,2,3-Trichloropropane	U		0.00618	0.0152	1	09/18/2019 09:02	WG1347118
1,2,4-Trimethylbenzene	U		0.00141	0.00606	1	09/18/2019 09:02	WG1347118
1,2,3-Trimethylbenzene	U		0.00139	0.00606	1	09/18/2019 09:02	WG1347118
1,3,5-Trimethylbenzene	U		0.00131	0.00606	1	09/18/2019 09:02	WG1347118
Vinyl acetate	U		0.00427	0.0152	1	09/18/2019 09:02	WG1347118
Vinyl chloride	U		0.000828	0.00303	1	09/18/2019 09:02	WG1347118
Xylenes, Total	U		0.00579	0.00788	1	09/18/2019 09:02	WG1347118
(S) Toluene-d8	*102*			*75.0-131*		*09/18/2019 09:02*	WG1347118
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/18/2019 09:02*	WG1347118
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/18/2019 09:02*	WG1347118

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.1		1	09/18/2019 13:22	WG1347351

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0163	0.0297	1	09/18/2019 09:26	WG1347118
Acrylonitrile	U		0.00226	0.0149	1	09/18/2019 09:26	WG1347118
Benzene	U		0.000475	0.00119	1	09/18/2019 09:26	WG1347118
Bromobenzene	U		0.00125	0.0149	1	09/18/2019 09:26	WG1347118
Bromodichloromethane	U		0.000937	0.00297	1	09/18/2019 09:26	WG1347118
Bromochloromethane	U		0.00134	0.00594	1	09/18/2019 09:26	WG1347118
Bromoform	U		0.00711	0.0297	1	09/18/2019 09:26	WG1347118
Bromomethane	U		0.00440	0.0149	1	09/18/2019 09:26	WG1347118
n-Butylbenzene	U		0.00456	0.0149	1	09/18/2019 09:26	WG1347118
sec-Butylbenzene	U		0.00301	0.0149	1	09/18/2019 09:26	WG1347118
tert-Butylbenzene	U		0.00184	0.00594	1	09/18/2019 09:26	WG1347118
Carbon disulfide	U		0.00483	0.0149	1	09/18/2019 09:26	WG1347118
Carbon tetrachloride	U		0.00128	0.00594	1	09/18/2019 09:26	WG1347118
Chlorobenzene	U		0.000681	0.00297	1	09/18/2019 09:26	WG1347118
Chlorodibromomethane	U		0.000535	0.00297	1	09/18/2019 09:26	WG1347118
Chloroethane	U		0.00128	0.00594	1	09/18/2019 09:26	WG1347118
Chloroform	U		0.000493	0.00297	1	09/18/2019 09:26	WG1347118
Chloromethane	U		0.00165	0.0149	1	09/18/2019 09:26	WG1347118
2-Chlorotoluene	U		0.00109	0.00297	1	09/18/2019 09:26	WG1347118
4-Chlorotoluene	U		0.00134	0.00594	1	09/18/2019 09:26	WG1347118
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00606	0.0297	1	09/18/2019 09:26	WG1347118
1,2-Dibromoethane	U		0.000624	0.00297	1	09/18/2019 09:26	WG1347118
Dibromomethane	U		0.00119	0.00594	1	09/18/2019 09:26	WG1347118
1,2-Dichlorobenzene	U		0.00172	0.00594	1	09/18/2019 09:26	WG1347118
1,3-Dichlorobenzene	U		0.00202	0.00594	1	09/18/2019 09:26	WG1347118
1,4-Dichlorobenzene	U		0.00234	0.00594	1	09/18/2019 09:26	WG1347118
Dichlorodifluoromethane	U		0.000972	0.00297	1	09/18/2019 09:26	WG1347118
1,1-Dichloroethane	U		0.000683	0.00297	1	09/18/2019 09:26	WG1347118
1,2-Dichloroethane	U		0.000565	0.00297	1	09/18/2019 09:26	WG1347118
1,1-Dichloroethene	U		0.000594	0.00297	1	09/18/2019 09:26	WG1347118
cis-1,2-Dichloroethene	U		0.000820	0.00297	1	09/18/2019 09:26	WG1347118
trans-1,2-Dichloroethene	U		0.00170	0.00594	1	09/18/2019 09:26	WG1347118
1,2-Dichloropropane	U		0.00151	0.00594	1	09/18/2019 09:26	WG1347118
1,1-Dichloropropene	U		0.000832	0.00297	1	09/18/2019 09:26	WG1347118
1,3-Dichloropropane	U		0.00208	0.00594	1	09/18/2019 09:26	WG1347118
cis-1,3-Dichloropropene	U		0.000806	0.00297	1	09/18/2019 09:26	WG1347118
trans-1,3-Dichloropropene	U		0.00182	0.00594	1	09/18/2019 09:26	WG1347118
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00166	0.00594	1	09/18/2019 09:26	WG1347118
2,2-Dichloropropane	U		0.000943	0.00297	1	09/18/2019 09:26	WG1347118
Di-isopropyl ether	U		0.000416	0.00119	1	09/18/2019 09:26	WG1347118
Ethylbenzene	U		0.000630	0.00297	1	09/18/2019 09:26	WG1347118
Hexachloro-1,3-butadiene	U		0.0151	0.0297	1	09/18/2019 09:26	WG1347118
2-Hexanone	U		0.0119	0.0297	1	09/18/2019 09:26	WG1347118
n-Hexane	0.00388 J	J	0.00126	0.00594	1	09/18/2019 09:26	WG1347118
Iodomethane	U		0.00719	0.0149	1	09/18/2019 09:26	WG1347118
Isopropylbenzene	U		0.00103	0.00297	1	09/18/2019 09:26	WG1347118
p-Isopropyltoluene	U		0.00277	0.00594	1	09/18/2019 09:26	WG1347118
2-Butanone (MEK)	U		0.0149	0.0297	1	09/18/2019 09:26	WG1347118
Methylene Chloride	U		0.00789	0.0297	1	09/18/2019 09:26	WG1347118
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0297	1	09/18/2019 09:26	WG1347118

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000351	0.00119	1	09/18/2019 09:26	WG1347118
Naphthalene	U			0.00371	0.0149	1	09/18/2019 09:26	WG1347118
n-Propylbenzene	U			0.00140	0.00594	1	09/18/2019 09:26	WG1347118
Styrene	U			0.00324	0.0149	1	09/18/2019 09:26	WG1347118
1,1,1,2-Tetrachloroethane	U			0.000594	0.00297	1	09/18/2019 09:26	WG1347118
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.000464	0.00297	1	09/18/2019 09:26	WG1347118
1,1,2-Trichlorotrifluoroethane	U			0.000802	0.00297	1	09/18/2019 09:26	WG1347118
Tetrachloroethene	U			0.000832	0.00297	1	09/18/2019 09:26	WG1347118
Toluene	0.00436	J	J	0.00149	0.00594	1	09/18/2019 09:26	WG1347118
1,2,3-Trichlorobenzene	U			0.000743	0.00297	1	09/18/2019 09:26	WG1347118
1,2,4-Trichlorobenzene	U			0.00573	0.0149	1	09/18/2019 09:26	WG1347118
1,1,1-Trichloroethane	U			0.000327	0.00297	1	09/18/2019 09:26	WG1347118
1,1,2-Trichloroethane	U			0.00105	0.00297	1	09/18/2019 09:26	WG1347118
Trichloroethene	U			0.000475	0.00119	1	09/18/2019 09:26	WG1347118
Trichlorofluoromethane	0.00217	J	J	0.000594	0.00297	1	09/18/2019 09:26	WG1347118
1,2,3-Trichloropropane	U			0.00606	0.0149	1	09/18/2019 09:26	WG1347118
1,2,4-Trimethylbenzene	U			0.00138	0.00594	1	09/18/2019 09:26	WG1347118
1,2,3-Trimethylbenzene	U			0.00137	0.00594	1	09/18/2019 09:26	WG1347118
1,3,5-Trimethylbenzene	U			0.00128	0.00594	1	09/18/2019 09:26	WG1347118
Vinyl acetate	U			0.00418	0.0149	1	09/18/2019 09:26	WG1347118
Vinyl chloride	U			0.000812	0.00297	1	09/18/2019 09:26	WG1347118
Xylenes, Total	U			0.00568	0.00773	1	09/18/2019 09:26	WG1347118
(S) Toluene-d8	*106*				*75.0-131*		*09/18/2019 09:26*	WG1347118
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/18/2019 09:26*	WG1347118
(S) 1,2-Dichloroethane-d4	*94.6*				*70.0-130*		*09/18/2019 09:26*	WG1347118

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.6		1	09/18/2019 13:36	WG1347352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0195 U	J	0.0160	0.0292	1	09/18/2019 09:47	WG1347118
Acrylonitrile	U		0.00222	0.0146	1	09/18/2019 09:47	WG1347118
Benzene	U		0.000467	0.00117	1	09/18/2019 09:47	WG1347118
Bromobenzene	U		0.00123	0.0146	1	09/18/2019 09:47	WG1347118
Bromodichloromethane	U		0.000921	0.00292	1	09/18/2019 09:47	WG1347118
Bromochloromethane	U		0.00132	0.00584	1	09/18/2019 09:47	WG1347118
Bromoform	U		0.00699	0.0292	1	09/18/2019 09:47	WG1347118
Bromomethane	U		0.00432	0.0146	1	09/18/2019 09:47	WG1347118
n-Butylbenzene	U		0.00449	0.0146	1	09/18/2019 09:47	WG1347118
sec-Butylbenzene	U		0.00296	0.0146	1	09/18/2019 09:47	WG1347118
tert-Butylbenzene	U		0.00181	0.00584	1	09/18/2019 09:47	WG1347118
Carbon disulfide	U		0.00474	0.0146	1	09/18/2019 09:47	WG1347118
Carbon tetrachloride	U		0.00126	0.00584	1	09/18/2019 09:47	WG1347118
Chlorobenzene	U		0.000670	0.00292	1	09/18/2019 09:47	WG1347118
Chlorodibromomethane	U		0.000526	0.00292	1	09/18/2019 09:47	WG1347118
Chloroethane	U		0.00126	0.00584	1	09/18/2019 09:47	WG1347118
Chloroform	U		0.000485	0.00292	1	09/18/2019 09:47	WG1347118
Chloromethane	U		0.00162	0.0146	1	09/18/2019 09:47	WG1347118
2-Chlorotoluene	U		0.00108	0.00292	1	09/18/2019 09:47	WG1347118
4-Chlorotoluene	U		0.00132	0.00584	1	09/18/2019 09:47	WG1347118
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00596	0.0292	1	09/18/2019 09:47	WG1347118
1,2-Dibromoethane	U		0.000614	0.00292	1	09/18/2019 09:47	WG1347118
Dibromomethane	U		0.00117	0.00584	1	09/18/2019 09:47	WG1347118
1,2-Dichlorobenzene	U		0.00169	0.00584	1	09/18/2019 09:47	WG1347118
1,3-Dichlorobenzene	U		0.00199	0.00584	1	09/18/2019 09:47	WG1347118
1,4-Dichlorobenzene	U		0.00230	0.00584	1	09/18/2019 09:47	WG1347118
Dichlorodifluoromethane	U		0.000956	0.00292	1	09/18/2019 09:47	WG1347118
1,1-Dichloroethane	U		0.000672	0.00292	1	09/18/2019 09:47	WG1347118
1,2-Dichloroethane	U		0.000555	0.00292	1	09/18/2019 09:47	WG1347118
1,1-Dichloroethene	U		0.000584	0.00292	1	09/18/2019 09:47	WG1347118
cis-1,2-Dichloroethene	U		0.000806	0.00292	1	09/18/2019 09:47	WG1347118
trans-1,2-Dichloroethene	U		0.00167	0.00584	1	09/18/2019 09:47	WG1347118
1,2-Dichloropropane	U		0.00148	0.00584	1	09/18/2019 09:47	WG1347118
1,1-Dichloropropene	U		0.000818	0.00292	1	09/18/2019 09:47	WG1347118
1,3-Dichloropropane	U		0.00205	0.00584	1	09/18/2019 09:47	WG1347118
cis-1,3-Dichloropropene	U		0.000792	0.00292	1	09/18/2019 09:47	WG1347118
trans-1,3-Dichloropropene	U		0.00179	0.00584	1	09/18/2019 09:47	WG1347118
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00164	0.00584	1	09/18/2019 09:47	WG1347118
2,2-Dichloropropane	U		0.000927	0.00292	1	09/18/2019 09:47	WG1347118
Di-isopropyl ether	U		0.000409	0.00117	1	09/18/2019 09:47	WG1347118
Ethylbenzene	U		0.000619	0.00292	1	09/18/2019 09:47	WG1347118
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	09/18/2019 09:47	WG1347118
2-Hexanone	U		0.0117	0.0292	1	09/18/2019 09:47	WG1347118
n-Hexane	U		0.00124	0.00584	1	09/18/2019 09:47	WG1347118
Iodomethane	U		0.00707	0.0146	1	09/18/2019 09:47	WG1347118
Isopropylbenzene	U		0.00101	0.00292	1	09/18/2019 09:47	WG1347118
p-Isopropyltoluene	U		0.00272	0.00584	1	09/18/2019 09:47	WG1347118
2-Butanone (MEK)	U		0.0146	0.0292	1	09/18/2019 09:47	WG1347118
Methylene Chloride	U		0.00776	0.0292	1	09/18/2019 09:47	WG1347118
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	09/18/2019 09:47	WG1347118

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MW-326-85

Collected date/time: 09/10/19 11:00

SAMPLE RESULTS - 19

L1138822

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	09/18/2019 09:47	WG1347118
Naphthalene	U		0.00365	0.0146	1	09/18/2019 09:47	WG1347118
n-Propylbenzene	U		0.00138	0.00584	1	09/18/2019 09:47	WG1347118
Styrene	U		0.00319	0.0146	1	09/18/2019 09:47	WG1347118
1,1,1,2-Tetrachloroethane	U		0.000584	0.00292	1	09/18/2019 09:47	WG1347118
1,1,2,2-Tetrachloroethane	U UJ	J0	0.000456	0.00292	1	09/18/2019 09:47	WG1347118
1,1,2-Trichlorotrifluoroethane	U		0.000789	0.00292	1	09/18/2019 09:47	WG1347118
Tetrachloroethene	U		0.000818	0.00292	1	09/18/2019 09:47	WG1347118
Toluene	0.00342 J	J	0.00146	0.00584	1	09/18/2019 09:47	WG1347118
1,2,3-Trichlorobenzene	U		0.000730	0.00292	1	09/18/2019 09:47	WG1347118
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1	09/18/2019 09:47	WG1347118
1,1,1-Trichloroethane	U		0.000321	0.00292	1	09/18/2019 09:47	WG1347118
1,1,2-Trichloroethane	U		0.00103	0.00292	1	09/18/2019 09:47	WG1347118
Trichloroethene	U		0.000467	0.00117	1	09/18/2019 09:47	WG1347118
Trichlorofluoromethane	U		0.000584	0.00292	1	09/18/2019 09:47	WG1347118
1,2,3-Trichloropropane	U		0.00596	0.0146	1	09/18/2019 09:47	WG1347118
1,2,4-Trimethylbenzene	U		0.00136	0.00584	1	09/18/2019 09:47	WG1347118
1,2,3-Trimethylbenzene	U		0.00134	0.00584	1	09/18/2019 09:47	WG1347118
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1	09/18/2019 09:47	WG1347118
Vinyl acetate	U		0.00411	0.0146	1	09/18/2019 09:47	WG1347118
Vinyl chloride	U		0.000798	0.00292	1	09/18/2019 09:47	WG1347118
Xylenes, Total	U		0.00559	0.00760	1	09/18/2019 09:47	WG1347118
(S) Toluene-d8	*107*			*75.0-131*		*09/18/2019 09:47*	WG1347118
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*09/18/2019 09:47*	WG1347118
(S) 1,2-Dichloroethane-d4	*99.5*			*70.0-130*		*09/18/2019 09:47*	WG1347118

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	84.9		1	09/18/2019 13:36	WG1347352

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0543		0.0161	0.0294	1	09/18/2019 10:07	WG1347118
Acrylonitrile	U		0.00224	0.0147	1	09/18/2019 10:07	WG1347118
Benzene	U		0.000471	0.00118	1	09/18/2019 10:07	WG1347118
Bromobenzene	U		0.00124	0.0147	1	09/18/2019 10:07	WG1347118
Bromodichloromethane	U		0.000928	0.00294	1	09/18/2019 10:07	WG1347118
Bromochloromethane	U		0.00133	0.00589	1	09/18/2019 10:07	WG1347118
Bromoform	U		0.00704	0.0294	1	09/18/2019 10:07	WG1347118
Bromomethane	U		0.00436	0.0147	1	09/18/2019 10:07	WG1347118
n-Butylbenzene	U		0.00452	0.0147	1	09/18/2019 10:07	WG1347118
sec-Butylbenzene	U		0.00298	0.0147	1	09/18/2019 10:07	WG1347118
tert-Butylbenzene	U		0.00183	0.00589	1	09/18/2019 10:07	WG1347118
Carbon disulfide	U		0.00478	0.0147	1	09/18/2019 10:07	WG1347118
Carbon tetrachloride	U		0.00127	0.00589	1	09/18/2019 10:07	WG1347118
Chlorobenzene	U		0.000675	0.00294	1	09/18/2019 10:07	WG1347118
Chlorodibromomethane	U		0.000530	0.00294	1	09/18/2019 10:07	WG1347118
Chloroethane	U		0.00127	0.00589	1	09/18/2019 10:07	WG1347118
Chloroform	0.000933 U	B J	0.000489	0.00294	1	09/18/2019 10:07	WG1347118
Chloromethane	U		0.00164	0.0147	1	09/18/2019 10:07	WG1347118
2-Chlorotoluene	U		0.00108	0.00294	1	09/18/2019 10:07	WG1347118
4-Chlorotoluene	U		0.00133	0.00589	1	09/18/2019 10:07	WG1347118
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00601	0.0294	1	09/18/2019 10:07	WG1347118
1,2-Dibromoethane	U		0.000618	0.00294	1	09/18/2019 10:07	WG1347118
Dibromomethane	U		0.00118	0.00589	1	09/18/2019 10:07	WG1347118
1,2-Dichlorobenzene	U		0.00171	0.00589	1	09/18/2019 10:07	WG1347118
1,3-Dichlorobenzene	U		0.00200	0.00589	1	09/18/2019 10:07	WG1347118
1,4-Dichlorobenzene	U		0.00232	0.00589	1	09/18/2019 10:07	WG1347118
Dichlorodifluoromethane	U		0.000963	0.00294	1	09/18/2019 10:07	WG1347118
1,1-Dichloroethane	U		0.000677	0.00294	1	09/18/2019 10:07	WG1347118
1,2-Dichloroethane	U		0.000559	0.00294	1	09/18/2019 10:07	WG1347118
1,1-Dichloroethene	U		0.000589	0.00294	1	09/18/2019 10:07	WG1347118
cis-1,2-Dichloroethene	U		0.000812	0.00294	1	09/18/2019 10:07	WG1347118
trans-1,2-Dichloroethene	U		0.00168	0.00589	1	09/18/2019 10:07	WG1347118
1,2-Dichloropropane	U		0.00150	0.00589	1	09/18/2019 10:07	WG1347118
1,1-Dichloropropene	U		0.000824	0.00294	1	09/18/2019 10:07	WG1347118
1,3-Dichloropropane	U		0.00206	0.00589	1	09/18/2019 10:07	WG1347118
cis-1,3-Dichloropropene	U		0.000798	0.00294	1	09/18/2019 10:07	WG1347118
trans-1,3-Dichloropropene	U		0.00180	0.00589	1	09/18/2019 10:07	WG1347118
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00165	0.00589	1	09/18/2019 10:07	WG1347118
2,2-Dichloropropane	U		0.000934	0.00294	1	09/18/2019 10:07	WG1347118
Di-isopropyl ether	U		0.000412	0.00118	1	09/18/2019 10:07	WG1347118
Ethylbenzene	U		0.000624	0.00294	1	09/18/2019 10:07	WG1347118
Hexachloro-1,3-butadiene	U		0.0150	0.0294	1	09/18/2019 10:07	WG1347118
2-Hexanone	U		0.0118	0.0294	1	09/18/2019 10:07	WG1347118
n-Hexane	0.00493 J	J	0.00125	0.00589	1	09/18/2019 10:07	WG1347118
Iodomethane	U		0.00712	0.0147	1	09/18/2019 10:07	WG1347118
Isopropylbenzene	U		0.00102	0.00294	1	09/18/2019 10:07	WG1347118
p-Isopropyltoluene	U		0.00274	0.00589	1	09/18/2019 10:07	WG1347118
2-Butanone (MEK)	0.0237	J	0.0147	0.0294	1	09/18/2019 10:07	WG1347118
Methylene Chloride	0.0103 U	B J	0.00782	0.0294	1	09/18/2019 10:07	WG1347118 JC 10/24/19
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0294	1	09/18/2019 10:07	WG1347118

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000347	0.00118	1	09/18/2019 10:07	WG1347118
Naphthalene	U		0.00367	0.0147	1	09/18/2019 10:07	WG1347118
n-Propylbenzene	U		0.00139	0.00589	1	09/18/2019 10:07	WG1347118
Styrene	U		0.00321	0.0147	1	09/18/2019 10:07	WG1347118
1,1,1,2-Tetrachloroethane	U		0.000589	0.00294	1	09/18/2019 10:07	WG1347118
1,1,2,2-Tetrachloroethane	U	UJ J0	0.000459	0.00294	1	09/18/2019 10:07	WG1347118
1,1,2-Trichlorotrifluoroethane	U		0.000795	0.00294	1	09/18/2019 10:07	WG1347118
Tetrachloroethene	U		0.000824	0.00294	1	09/18/2019 10:07	WG1347118
Toluene	0.00651		0.00147	0.00589	1	09/18/2019 10:07	WG1347118
1,2,3-Trichlorobenzene	U		0.000736	0.00294	1	09/18/2019 10:07	WG1347118
1,2,4-Trichlorobenzene	U		0.00568	0.0147	1	09/18/2019 10:07	WG1347118
1,1,1-Trichloroethane	U		0.000324	0.00294	1	09/18/2019 10:07	WG1347118
1,1,2-Trichloroethane	U		0.00104	0.00294	1	09/18/2019 10:07	WG1347118
Trichloroethene	U		0.000471	0.00118	1	09/18/2019 10:07	WG1347118
Trichlorofluoromethane	U		0.000589	0.00294	1	09/18/2019 10:07	WG1347118
1,2,3-Trichloropropane	U		0.00601	0.0147	1	09/18/2019 10:07	WG1347118
1,2,4-Trimethylbenzene	U		0.00137	0.00589	1	09/18/2019 10:07	WG1347118
1,2,3-Trimethylbenzene	U		0.00135	0.00589	1	09/18/2019 10:07	WG1347118
1,3,5-Trimethylbenzene	U		0.00127	0.00589	1	09/18/2019 10:07	WG1347118
Vinyl acetate	U		0.00414	0.0147	1	09/18/2019 10:07	WG1347118
Vinyl chloride	U		0.000804	0.00294	1	09/18/2019 10:07	WG1347118
Xylenes, Total	U		0.00563	0.00765	1	09/18/2019 10:07	WG1347118
(S) Toluene-d8	*105*			*75.0-131*		*09/18/2019 10:07*	WG1347118
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/18/2019 10:07*	WG1347118
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/18/2019 10:07*	WG1347118

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.0		1	09/18/2019 13:36	WG1347352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0322		0.0154	0.0281	1	09/18/2019 10:28	WG1347118
Acrylonitrile	U		0.00213	0.0140	1	09/18/2019 10:28	WG1347118
Benzene	U		0.000449	0.00112	1	09/18/2019 10:28	WG1347118
Bromobenzene	U		0.00118	0.0140	1	09/18/2019 10:28	WG1347118
Bromodichloromethane	U		0.000885	0.00281	1	09/18/2019 10:28	WG1347118
Bromochloromethane	U		0.00127	0.00562	1	09/18/2019 10:28	WG1347118
Bromoform	U		0.00672	0.0281	1	09/18/2019 10:28	WG1347118
Bromomethane	U		0.00416	0.0140	1	09/18/2019 10:28	WG1347118
n-Butylbenzene	U		0.00431	0.0140	1	09/18/2019 10:28	WG1347118
sec-Butylbenzene	U		0.00284	0.0140	1	09/18/2019 10:28	WG1347118
tert-Butylbenzene	U		0.00174	0.00562	1	09/18/2019 10:28	WG1347118
Carbon disulfide	U		0.00456	0.0140	1	09/18/2019 10:28	WG1347118
Carbon tetrachloride	U		0.00121	0.00562	1	09/18/2019 10:28	WG1347118
Chlorobenzene	U		0.000644	0.00281	1	09/18/2019 10:28	WG1347118
Chlorodibromomethane	U		0.000506	0.00281	1	09/18/2019 10:28	WG1347118
Chloroethane	U		0.00121	0.00562	1	09/18/2019 10:28	WG1347118
Chloroform	U		0.000466	0.00281	1	09/18/2019 10:28	WG1347118
Chloromethane	U		0.00156	0.0140	1	09/18/2019 10:28	WG1347118
2-Chlorotoluene	U		0.00103	0.00281	1	09/18/2019 10:28	WG1347118
4-Chlorotoluene	U		0.00127	0.00562	1	09/18/2019 10:28	WG1347118
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00573	0.0281	1	09/18/2019 10:28	WG1347118
1,2-Dibromoethane	U		0.000590	0.00281	1	09/18/2019 10:28	WG1347118
Dibromomethane	U		0.00112	0.00562	1	09/18/2019 10:28	WG1347118
1,2-Dichlorobenzene	U		0.00163	0.00562	1	09/18/2019 10:28	WG1347118
1,3-Dichlorobenzene	U		0.00191	0.00562	1	09/18/2019 10:28	WG1347118
1,4-Dichlorobenzene	U		0.00221	0.00562	1	09/18/2019 10:28	WG1347118
Dichlorodifluoromethane	U		0.000919	0.00281	1	09/18/2019 10:28	WG1347118
1,1-Dichloroethane	U		0.000646	0.00281	1	09/18/2019 10:28	WG1347118
1,2-Dichloroethane	U		0.000534	0.00281	1	09/18/2019 10:28	WG1347118
1,1-Dichloroethene	U		0.000562	0.00281	1	09/18/2019 10:28	WG1347118
cis-1,2-Dichloroethene	U		0.000775	0.00281	1	09/18/2019 10:28	WG1347118
trans-1,2-Dichloroethene	U		0.00161	0.00562	1	09/18/2019 10:28	WG1347118
1,2-Dichloropropane	U		0.00143	0.00562	1	09/18/2019 10:28	WG1347118
1,1-Dichloropropene	U		0.000786	0.00281	1	09/18/2019 10:28	WG1347118
1,3-Dichloropropane	U		0.00197	0.00562	1	09/18/2019 10:28	WG1347118
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	09/18/2019 10:28	WG1347118
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	09/18/2019 10:28	WG1347118
trans-1,4-Dichloro-2-butene	U	UJ J0	0.00157	0.00562	1	09/18/2019 10:28	WG1347118
2,2-Dichloropropane	U		0.000891	0.00281	1	09/18/2019 10:28	WG1347118
Di-isopropyl ether	U		0.000393	0.00112	1	09/18/2019 10:28	WG1347118
Ethylbenzene	U		0.000595	0.00281	1	09/18/2019 10:28	WG1347118
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	09/18/2019 10:28	WG1347118
2-Hexanone	U		0.0112	0.0281	1	09/18/2019 10:28	WG1347118
n-Hexane	U		0.00119	0.00562	1	09/18/2019 10:28	WG1347118
Iodomethane	U		0.00680	0.0140	1	09/18/2019 10:28	WG1347118
Isopropylbenzene	U		0.000970	0.00281	1	09/18/2019 10:28	WG1347118
p-Isopropyltoluene	U		0.00262	0.00562	1	09/18/2019 10:28	WG1347118
2-Butanone (MEK)	U		0.0140	0.0281	1	09/18/2019 10:28	WG1347118
Methylene Chloride	0.00980 U	B J	0.00746	0.0281	1	09/18/2019 10:28	WG1347118
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	09/18/2019 10:28	WG1347118

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	09/18/2019 10:28	WG1347118
Naphthalene	U		0.00351	0.0140	1	09/18/2019 10:28	WG1347118
n-Propylbenzene	U		0.00133	0.00562	1	09/18/2019 10:28	WG1347118
Styrene	U		0.00307	0.0140	1	09/18/2019 10:28	WG1347118
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	09/18/2019 10:28	WG1347118
1,1,2,2-Tetrachloroethane	U UJ	J0	0.000438	0.00281	1	09/18/2019 10:28	WG1347118
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	09/18/2019 10:28	WG1347118
Tetrachloroethene	U		0.000786	0.00281	1	09/18/2019 10:28	WG1347118
Toluene	0.0102		0.00140	0.00562	1	09/18/2019 10:28	WG1347118
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	09/18/2019 10:28	WG1347118
1,2,4-Trichlorobenzene	U		0.00542	0.0140	1	09/18/2019 10:28	WG1347118
1,1,1-Trichloroethane	U		0.000309	0.00281	1	09/18/2019 10:28	WG1347118
1,1,2-Trichloroethane	U		0.000992	0.00281	1	09/18/2019 10:28	WG1347118
Trichloroethene	U		0.000449	0.00112	1	09/18/2019 10:28	WG1347118
Trichlorofluoromethane	U		0.000562	0.00281	1	09/18/2019 10:28	WG1347118
1,2,3-Trichloropropane	U		0.00573	0.0140	1	09/18/2019 10:28	WG1347118
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	09/18/2019 10:28	WG1347118
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	09/18/2019 10:28	WG1347118
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	09/18/2019 10:28	WG1347118
Vinyl acetate	U		0.00395	0.0140	1	09/18/2019 10:28	WG1347118
Vinyl chloride	U		0.000767	0.00281	1	09/18/2019 10:28	WG1347118
Xylenes, Total	U		0.00537	0.00730	1	09/18/2019 10:28	WG1347118
(S) Toluene-d8	*104*			*75.0-131*		*09/18/2019 10:28*	WG1347118
(S) 4-Bromofluorobenzene	*99.8*			*67.0-138*		*09/18/2019 10:28*	WG1347118
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/18/2019 10:28*	WG1347118

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.8		1	09/18/2019 13:36	WG1347352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0166	0.0302	1	09/18/2019 10:48	WG1347118
Acrylonitrile	U		0.00230	0.0151	1	09/18/2019 10:48	WG1347118
Benzene	U		0.000483	0.00121	1	09/18/2019 10:48	WG1347118
Bromobenzene	U		0.00127	0.0151	1	09/18/2019 10:48	WG1347118
Bromodichloromethane	U		0.000952	0.00302	1	09/18/2019 10:48	WG1347118
Bromochloromethane	U		0.00137	0.00604	1	09/18/2019 10:48	WG1347118
Bromoform	U		0.00722	0.0302	1	09/18/2019 10:48	WG1347118
Bromomethane	U		0.00447	0.0151	1	09/18/2019 10:48	WG1347118
n-Butylbenzene	U		0.00464	0.0151	1	09/18/2019 10:48	WG1347118
sec-Butylbenzene	U		0.00306	0.0151	1	09/18/2019 10:48	WG1347118
tert-Butylbenzene	U		0.00187	0.00604	1	09/18/2019 10:48	WG1347118
Carbon disulfide	U		0.00491	0.0151	1	09/18/2019 10:48	WG1347118
Carbon tetrachloride	U		0.00130	0.00604	1	09/18/2019 10:48	WG1347118
Chlorobenzene	U		0.000692	0.00302	1	09/18/2019 10:48	WG1347118
Chlorodibromomethane	U		0.000544	0.00302	1	09/18/2019 10:48	WG1347118
Chloroethane	U		0.00130	0.00604	1	09/18/2019 10:48	WG1347118
Chloroform	0.000715 U	B J	0.000501	0.00302	1	09/18/2019 10:48	WG1347118
Chloromethane	U		0.00168	0.0151	1	09/18/2019 10:48	WG1347118
2-Chlorotoluene	U		0.00111	0.00302	1	09/18/2019 10:48	WG1347118
4-Chlorotoluene	U		0.00137	0.00604	1	09/18/2019 10:48	WG1347118
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.00616	0.0302	1	09/18/2019 10:48	WG1347118
1,2-Dibromoethane	U		0.000634	0.00302	1	09/18/2019 10:48	WG1347118
Dibromomethane	U		0.00121	0.00604	1	09/18/2019 10:48	WG1347118
1,2-Dichlorobenzene	U		0.00175	0.00604	1	09/18/2019 10:48	WG1347118
1,3-Dichlorobenzene	U		0.00205	0.00604	1	09/18/2019 10:48	WG1347118
1,4-Dichlorobenzene	U		0.00238	0.00604	1	09/18/2019 10:48	WG1347118
Dichlorodifluoromethane	U		0.000988	0.00302	1	09/18/2019 10:48	WG1347118
1,1-Dichloroethane	U		0.000695	0.00302	1	09/18/2019 10:48	WG1347118
1,2-Dichloroethane	U		0.000574	0.00302	1	09/18/2019 10:48	WG1347118
1,1-Dichloroethene	U		0.000604	0.00302	1	09/18/2019 10:48	WG1347118
cis-1,2-Dichloroethene	U		0.000834	0.00302	1	09/18/2019 10:48	WG1347118
trans-1,2-Dichloroethene	U		0.00173	0.00604	1	09/18/2019 10:48	WG1347118
1,2-Dichloropropane	U		0.00153	0.00604	1	09/18/2019 10:48	WG1347118
1,1-Dichloropropene	U		0.000846	0.00302	1	09/18/2019 10:48	WG1347118
1,3-Dichloropropane	U		0.00211	0.00604	1	09/18/2019 10:48	WG1347118
cis-1,3-Dichloropropene	U		0.000819	0.00302	1	09/18/2019 10:48	WG1347118
trans-1,3-Dichloropropene	U		0.00185	0.00604	1	09/18/2019 10:48	WG1347118
trans-1,4-Dichloro-2-butene	U UJ	J0	0.00169	0.00604	1	09/18/2019 10:48	WG1347118
2,2-Dichloropropane	U		0.000958	0.00302	1	09/18/2019 10:48	WG1347118
Di-isopropyl ether	U		0.000423	0.00121	1	09/18/2019 10:48	WG1347118
Ethylbenzene	U		0.000640	0.00302	1	09/18/2019 10:48	WG1347118
Hexachloro-1,3-butadiene	U		0.0153	0.0302	1	09/18/2019 10:48	WG1347118
2-Hexanone	U		0.0121	0.0302	1	09/18/2019 10:48	WG1347118
n-Hexane	U		0.00128	0.00604	1	09/18/2019 10:48	WG1347118
Iodomethane	U		0.00731	0.0151	1	09/18/2019 10:48	WG1347118
Isopropylbenzene	U		0.00104	0.00302	1	09/18/2019 10:48	WG1347118
p-Isopropyltoluene	U		0.00282	0.00604	1	09/18/2019 10:48	WG1347118
2-Butanone (MEK)	U		0.0151	0.0302	1	09/18/2019 10:48	WG1347118
Methylene Chloride	0.0117 U	B J	0.00802	0.0302	1	09/18/2019 10:48	WG1347118
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0302	1	09/18/2019 10:48	WG1347118

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000356	0.00121	1	09/18/2019 10:48	WG1347118
Naphthalene	U		0.00377	0.0151	1	09/18/2019 10:48	WG1347118
n-Propylbenzene	U		0.00143	0.00604	1	09/18/2019 10:48	WG1347118
Styrene	U		0.00330	0.0151	1	09/18/2019 10:48	WG1347118
1,1,1,2-Tetrachloroethane	U		0.000604	0.00302	1	09/18/2019 10:48	WG1347118
1,1,2,2-Tetrachloroethane	U UJ	J0	0.000471	0.00302	1	09/18/2019 10:48	WG1347118
1,1,2-Trichlorotrifluoroethane	U		0.000816	0.00302	1	09/18/2019 10:48	WG1347118
Tetrachloroethene	U		0.000846	0.00302	1	09/18/2019 10:48	WG1347118
Toluene	0.0108		0.00151	0.00604	1	09/18/2019 10:48	WG1347118
1,2,3-Trichlorobenzene	U		0.000755	0.00302	1	09/18/2019 10:48	WG1347118
1,2,4-Trichlorobenzene	U		0.00582	0.0151	1	09/18/2019 10:48	WG1347118
1,1,1-Trichloroethane	U		0.000332	0.00302	1	09/18/2019 10:48	WG1347118
1,1,2-Trichloroethane	U		0.00107	0.00302	1	09/18/2019 10:48	WG1347118
Trichloroethene	U		0.000483	0.00121	1	09/18/2019 10:48	WG1347118
Trichlorofluoromethane	U		0.000604	0.00302	1	09/18/2019 10:48	WG1347118
1,2,3-Trichloropropane	U		0.00616	0.0151	1	09/18/2019 10:48	WG1347118
1,2,4-Trimethylbenzene	U		0.00140	0.00604	1	09/18/2019 10:48	WG1347118
1,2,3-Trimethylbenzene	U		0.00139	0.00604	1	09/18/2019 10:48	WG1347118
1,3,5-Trimethylbenzene	U		0.00130	0.00604	1	09/18/2019 10:48	WG1347118
Vinyl acetate	U		0.00425	0.0151	1	09/18/2019 10:48	WG1347118
Vinyl chloride	U		0.000825	0.00302	1	09/18/2019 10:48	WG1347118
Xylenes, Total	U		0.00578	0.00785	1	09/18/2019 10:48	WG1347118
(S) Toluene-d8	*104*			*75.0-131*		*09/18/2019 10:48*	WG1347118
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/18/2019 10:48*	WG1347118
(S) 1,2-Dichloroethane-d4	*99.8*			*70.0-130*		*09/18/2019 10:48*	WG1347118

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.6		1	09/20/2019 12:40	WG1349348

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0146	0.0267	1	09/20/2019 11:36	WG1349125
Acrylonitrile	U		0.00203	0.0134	1	09/20/2019 11:36	WG1349125
Benzene	U		0.000428	0.00107	1	09/20/2019 11:36	WG1349125
Bromobenzene	U		0.00112	0.0134	1	09/20/2019 11:36	WG1349125
Bromodichloromethane	U		0.000842	0.00267	1	09/20/2019 11:36	WG1349125
Bromochloromethane	U		0.00121	0.00534	1	09/20/2019 11:36	WG1349125
Bromoform	U		0.00639	0.0267	1	09/20/2019 11:36	WG1349125
Bromomethane	U		0.00395	0.0134	1	09/20/2019 11:36	WG1349125
n-Butylbenzene	U		0.00410	0.0134	1	09/20/2019 11:36	WG1349125
sec-Butylbenzene	U		0.00270	0.0134	1	09/20/2019 11:36	WG1349125
tert-Butylbenzene	U		0.00166	0.00534	1	09/20/2019 11:36	WG1349125
Carbon disulfide	U		0.00434	0.0134	1	09/20/2019 11:36	WG1349125
Carbon tetrachloride	U		0.00115	0.00534	1	09/20/2019 11:36	WG1349125
Chlorobenzene	U		0.000612	0.00267	1	09/20/2019 11:36	WG1349125
Chlorodibromomethane	U		0.000481	0.00267	1	09/20/2019 11:36	WG1349125
Chloroethane	U		0.00115	0.00534	1	09/20/2019 11:36	WG1349125
Chloroform	U		0.000444	0.00267	1	09/20/2019 11:36	WG1349125
Chloromethane	U		0.00149	0.0134	1	09/20/2019 11:36	WG1349125
2-Chlorotoluene	U		0.000983	0.00267	1	09/20/2019 11:36	WG1349125
4-Chlorotoluene	U		0.00121	0.00534	1	09/20/2019 11:36	WG1349125
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00545	0.0267	1	09/20/2019 11:36	WG1349125
1,2-Dibromoethane	U		0.000561	0.00267	1	09/20/2019 11:36	WG1349125
Dibromomethane	U		0.00107	0.00534	1	09/20/2019 11:36	WG1349125
1,2-Dichlorobenzene	U		0.00155	0.00534	1	09/20/2019 11:36	WG1349125
1,3-Dichlorobenzene	U		0.00182	0.00534	1	09/20/2019 11:36	WG1349125
1,4-Dichlorobenzene	U		0.00211	0.00534	1	09/20/2019 11:36	WG1349125
Dichlorodifluoromethane	U		0.000874	0.00267	1	09/20/2019 11:36	WG1349125
1,1-Dichloroethane	U		0.000615	0.00267	1	09/20/2019 11:36	WG1349125
1,2-Dichloroethane	U		0.000508	0.00267	1	09/20/2019 11:36	WG1349125
1,1-Dichloroethene	U		0.000534	0.00267	1	09/20/2019 11:36	WG1349125
cis-1,2-Dichloroethene	0.00156	J J	0.000737	0.00267	1	09/20/2019 11:36	WG1349125
trans-1,2-Dichloroethene	U		0.00153	0.00534	1	09/20/2019 11:36	WG1349125
1,2-Dichloropropane	U		0.00136	0.00534	1	09/20/2019 11:36	WG1349125
1,1-Dichloropropene	U		0.000748	0.00267	1	09/20/2019 11:36	WG1349125
1,3-Dichloropropane	U		0.00187	0.00534	1	09/20/2019 11:36	WG1349125
cis-1,3-Dichloropropene	U		0.000725	0.00267	1	09/20/2019 11:36	WG1349125
trans-1,3-Dichloropropene	U		0.00164	0.00534	1	09/20/2019 11:36	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00150	0.00534	1	09/20/2019 11:36	WG1349125
2,2-Dichloropropane	U		0.000848	0.00267	1	09/20/2019 11:36	WG1349125
Di-isopropyl ether	U		0.000374	0.00107	1	09/20/2019 11:36	WG1349125
Ethylbenzene	U		0.000566	0.00267	1	09/20/2019 11:36	WG1349125
Hexachloro-1,3-butadiene	U		0.0136	0.0267	1	09/20/2019 11:36	WG1349125
2-Hexanone	U		0.0107	0.0267	1	09/20/2019 11:36	WG1349125
n-Hexane	U		0.00113	0.00534	1	09/20/2019 11:36	WG1349125
Iodomethane	U		0.00647	0.0134	1	09/20/2019 11:36	WG1349125
Isopropylbenzene	U		0.000922	0.00267	1	09/20/2019 11:36	WG1349125
p-Isopropyltoluene	U		0.00249	0.00534	1	09/20/2019 11:36	WG1349125
2-Butanone (MEK)	U		0.0134	0.0267	1	09/20/2019 11:36	WG1349125
Methylene Chloride	U		0.00710	0.0267	1	09/20/2019 11:36	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	09/20/2019 11:36	WG1349125

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000315	0.00107	1	09/20/2019 11:36	WG1349125
Naphthalene	U		0.00333	0.0134	1	09/20/2019 11:36	WG1349125
n-Propylbenzene	U		0.00126	0.00534	1	09/20/2019 11:36	WG1349125
Styrene	U		0.00292	0.0134	1	09/20/2019 11:36	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000534	0.00267	1	09/20/2019 11:36	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000417	0.00267	1	09/20/2019 11:36	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000721	0.00267	1	09/20/2019 11:36	WG1349125
Tetrachloroethene	U		0.000748	0.00267	1	09/20/2019 11:36	WG1349125
Toluene	0.00386 J	J	0.00134	0.00534	1	09/20/2019 11:36	WG1349125
1,2,3-Trichlorobenzene	U		0.000668	0.00267	1	09/20/2019 11:36	WG1349125
1,2,4-Trichlorobenzene	U		0.00515	0.0134	1	09/20/2019 11:36	WG1349125
1,1,1-Trichloroethane	U		0.000294	0.00267	1	09/20/2019 11:36	WG1349125
1,1,2-Trichloroethane	U		0.000944	0.00267	1	09/20/2019 11:36	WG1349125
Trichloroethene	U		0.000428	0.00107	1	09/20/2019 11:36	WG1349125
Trichlorofluoromethane	U		0.000534	0.00267	1	09/20/2019 11:36	WG1349125
1,2,3-Trichloropropane	U		0.00545	0.0134	1	09/20/2019 11:36	WG1349125
1,2,4-Trimethylbenzene	U		0.00124	0.00534	1	09/20/2019 11:36	WG1349125
1,2,3-Trimethylbenzene	U		0.00123	0.00534	1	09/20/2019 11:36	WG1349125
1,3,5-Trimethylbenzene	U		0.00115	0.00534	1	09/20/2019 11:36	WG1349125
Vinyl acetate	U		0.00376	0.0134	1	09/20/2019 11:36	WG1349125
Vinyl chloride	U		0.000730	0.00267	1	09/20/2019 11:36	WG1349125
Xylenes, Total	U		0.00511	0.00695	1	09/20/2019 11:36	WG1349125
(S) Toluene-d8	*106*			*75.0-131*		*09/20/2019 11:36*	WG1349125
(S) 4-Bromofluorobenzene	*96.9*			*67.0-138*		*09/20/2019 11:36*	WG1349125
(S) 1,2-Dichloroethane-d4	*96.0*			*70.0-130*		*09/20/2019 11:36*	WG1349125

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.1		1	09/20/2019 12:40	WG1349348

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0282			0.0144	0.0263	1	09/20/2019 11:57	WG1349125
Acrylonitrile	U			0.00200	0.0131	1	09/20/2019 11:57	WG1349125
Benzene	U			0.000421	0.00105	1	09/20/2019 11:57	WG1349125
Bromobenzene	U			0.00110	0.0131	1	09/20/2019 11:57	WG1349125
Bromodichloromethane	U			0.000829	0.00263	1	09/20/2019 11:57	WG1349125
Bromochloromethane	U			0.00119	0.00526	1	09/20/2019 11:57	WG1349125
Bromoform	U			0.00629	0.0263	1	09/20/2019 11:57	WG1349125
Bromomethane	U			0.00389	0.0131	1	09/20/2019 11:57	WG1349125
n-Butylbenzene	U			0.00404	0.0131	1	09/20/2019 11:57	WG1349125
sec-Butylbenzene	U			0.00266	0.0131	1	09/20/2019 11:57	WG1349125
tert-Butylbenzene	U			0.00163	0.00526	1	09/20/2019 11:57	WG1349125
Carbon disulfide	U			0.00427	0.0131	1	09/20/2019 11:57	WG1349125
Carbon tetrachloride	U			0.00114	0.00526	1	09/20/2019 11:57	WG1349125
Chlorobenzene	U			0.000603	0.00263	1	09/20/2019 11:57	WG1349125
Chlorodibromomethane	U			0.000473	0.00263	1	09/20/2019 11:57	WG1349125
Chloroethane	U			0.00114	0.00526	1	09/20/2019 11:57	WG1349125
Chloroform	U			0.000437	0.00263	1	09/20/2019 11:57	WG1349125
Chloromethane	U			0.00146	0.0131	1	09/20/2019 11:57	WG1349125
2-Chlorotoluene	U			0.000968	0.00263	1	09/20/2019 11:57	WG1349125
4-Chlorotoluene	U			0.00119	0.00526	1	09/20/2019 11:57	WG1349125
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00536	0.0263	1	09/20/2019 11:57	WG1349125
1,2-Dibromoethane	U			0.000552	0.00263	1	09/20/2019 11:57	WG1349125
Dibromomethane	U			0.00105	0.00526	1	09/20/2019 11:57	WG1349125
1,2-Dichlorobenzene	U			0.00153	0.00526	1	09/20/2019 11:57	WG1349125
1,3-Dichlorobenzene	U			0.00179	0.00526	1	09/20/2019 11:57	WG1349125
1,4-Dichlorobenzene	U			0.00207	0.00526	1	09/20/2019 11:57	WG1349125
Dichlorodifluoromethane	U			0.000860	0.00263	1	09/20/2019 11:57	WG1349125
1,1-Dichloroethane	U			0.000605	0.00263	1	09/20/2019 11:57	WG1349125
1,2-Dichloroethane	U			0.000500	0.00263	1	09/20/2019 11:57	WG1349125
1,1-Dichloroethene	U			0.000526	0.00263	1	09/20/2019 11:57	WG1349125
cis-1,2-Dichloroethene	0.000902	J	J	0.000726	0.00263	1	09/20/2019 11:57	WG1349125
trans-1,2-Dichloroethene	U			0.00150	0.00526	1	09/20/2019 11:57	WG1349125
1,2-Dichloropropane	U			0.00134	0.00526	1	09/20/2019 11:57	WG1349125
1,1-Dichloropropene	U			0.000736	0.00263	1	09/20/2019 11:57	WG1349125
1,3-Dichloropropane	U			0.00184	0.00526	1	09/20/2019 11:57	WG1349125
cis-1,3-Dichloropropene	U			0.000713	0.00263	1	09/20/2019 11:57	WG1349125
trans-1,3-Dichloropropene	U			0.00161	0.00526	1	09/20/2019 11:57	WG1349125
trans-1,4-Dichloro-2-butene	U			0.00147	0.00526	1	09/20/2019 11:57	WG1349125
2,2-Dichloropropane	U			0.000834	0.00263	1	09/20/2019 11:57	WG1349125
Di-isopropyl ether	U			0.000368	0.00105	1	09/20/2019 11:57	WG1349125
Ethylbenzene	U			0.000558	0.00263	1	09/20/2019 11:57	WG1349125
Hexachloro-1,3-butadiene	U			0.0134	0.0263	1	09/20/2019 11:57	WG1349125
2-Hexanone	U			0.0105	0.0263	1	09/20/2019 11:57	WG1349125
n-Hexane	U			0.00112	0.00526	1	09/20/2019 11:57	WG1349125
Iodomethane	U			0.00636	0.0131	1	09/20/2019 11:57	WG1349125
Isopropylbenzene	U			0.000908	0.00263	1	09/20/2019 11:57	WG1349125
p-Isopropyltoluene	U			0.00245	0.00526	1	09/20/2019 11:57	WG1349125
2-Butanone (MEK)	0.0194	U	~~B J~~	0.0131	0.0263	1	09/20/2019 11:57	WG1349125
Methylene Chloride	U			0.00698	0.0263	1	09/20/2019 11:57	WG1349125
4-Methyl-2-pentanone (MIBK)	U			0.0105	0.0263	1	09/20/2019 11:57	WG1349125

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000310	0.00105	1	09/20/2019 11:57	WG1349125
Naphthalene	U		0.00328	0.0131	1	09/20/2019 11:57	WG1349125
n-Propylbenzene	U		0.00124	0.00526	1	09/20/2019 11:57	WG1349125
Styrene	U		0.00287	0.0131	1	09/20/2019 11:57	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000526	0.00263	1	09/20/2019 11:57	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000410	0.00263	1	09/20/2019 11:57	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000710	0.00263	1	09/20/2019 11:57	WG1349125
Tetrachloroethene	U		0.000736	0.00263	1	09/20/2019 11:57	WG1349125
Toluene	0.0318		0.00131	0.00526	1	09/20/2019 11:57	WG1349125
1,2,3-Trichlorobenzene	U		0.000657	0.00263	1	09/20/2019 11:57	WG1349125
1,2,4-Trichlorobenzene	U		0.00507	0.0131	1	09/20/2019 11:57	WG1349125
1,1,1-Trichloroethane	U		0.000289	0.00263	1	09/20/2019 11:57	WG1349125
1,1,2-Trichloroethane	U		0.000929	0.00263	1	09/20/2019 11:57	WG1349125
Trichloroethene	U		0.000421	0.00105	1	09/20/2019 11:57	WG1349125
Trichlorofluoromethane	U		0.000526	0.00263	1	09/20/2019 11:57	WG1349125
1,2,3-Trichloropropane	U		0.00536	0.0131	1	09/20/2019 11:57	WG1349125
1,2,4-Trimethylbenzene	U		0.00122	0.00526	1	09/20/2019 11:57	WG1349125
1,2,3-Trimethylbenzene	U		0.00121	0.00526	1	09/20/2019 11:57	WG1349125
1,3,5-Trimethylbenzene	U		0.00114	0.00526	1	09/20/2019 11:57	WG1349125
Vinyl acetate	U		0.00370	0.0131	1	09/20/2019 11:57	WG1349125
Vinyl chloride	U		0.000718	0.00263	1	09/20/2019 11:57	WG1349125
Xylenes, Total	U		0.00503	0.00684	1	09/20/2019 11:57	WG1349125
(S) Toluene-d8	*105*			*75.0-131*		*09/20/2019 11:57*	WG1349125
(S) 4-Bromofluorobenzene	*96.5*			*67.0-138*		*09/20/2019 11:57*	WG1349125
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*09/20/2019 11:57*	WG1349125

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.1		1	09/20/2019 12:40	WG1349348

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0205	U	J	0.0150	0.0274	1	09/20/2019 12:19	WG1349125
Acrylonitrile	U			0.00209	0.0137	1	09/20/2019 12:19	WG1349125
Benzene	U			0.000439	0.00110	1	09/20/2019 12:19	WG1349125
Bromobenzene	U			0.00115	0.0137	1	09/20/2019 12:19	WG1349125
Bromodichloromethane	U			0.000865	0.00274	1	09/20/2019 12:19	WG1349125
Bromochloromethane	U			0.00124	0.00549	1	09/20/2019 12:19	WG1349125
Bromoform	U			0.00657	0.0274	1	09/20/2019 12:19	WG1349125
Bromomethane	U			0.00406	0.0137	1	09/20/2019 12:19	WG1349125
n-Butylbenzene	U			0.00422	0.0137	1	09/20/2019 12:19	WG1349125
sec-Butylbenzene	U			0.00278	0.0137	1	09/20/2019 12:19	WG1349125
tert-Butylbenzene	U			0.00170	0.00549	1	09/20/2019 12:19	WG1349125
Carbon disulfide	U			0.00446	0.0137	1	09/20/2019 12:19	WG1349125
Carbon tetrachloride	U			0.00119	0.00549	1	09/20/2019 12:19	WG1349125
Chlorobenzene	U			0.000629	0.00274	1	09/20/2019 12:19	WG1349125
Chlorodibromomethane	U			0.000494	0.00274	1	09/20/2019 12:19	WG1349125
Chloroethane	U			0.00119	0.00549	1	09/20/2019 12:19	WG1349125
Chloroform	0.000572	J	J	0.000456	0.00274	1	09/20/2019 12:19	WG1349125
Chloromethane	U			0.00153	0.0137	1	09/20/2019 12:19	WG1349125
2-Chlorotoluene	U			0.00101	0.00274	1	09/20/2019 12:19	WG1349125
4-Chlorotoluene	U			0.00124	0.00549	1	09/20/2019 12:19	WG1349125
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.00560	0.0274	1	09/20/2019 12:19	WG1349125
1,2-Dibromoethane	U			0.000576	0.00274	1	09/20/2019 12:19	WG1349125
Dibromomethane	U			0.00110	0.00549	1	09/20/2019 12:19	WG1349125
1,2-Dichlorobenzene	U			0.00159	0.00549	1	09/20/2019 12:19	WG1349125
1,3-Dichlorobenzene	U			0.00187	0.00549	1	09/20/2019 12:19	WG1349125
1,4-Dichlorobenzene	U			0.00216	0.00549	1	09/20/2019 12:19	WG1349125
Dichlorodifluoromethane	U			0.000898	0.00274	1	09/20/2019 12:19	WG1349125
1,1-Dichloroethane	U			0.000631	0.00274	1	09/20/2019 12:19	WG1349125
1,2-Dichloroethane	U			0.000522	0.00274	1	09/20/2019 12:19	WG1349125
1,1-Dichloroethene	U			0.000549	0.00274	1	09/20/2019 12:19	WG1349125
cis-1,2-Dichloroethene	U			0.000758	0.00274	1	09/20/2019 12:19	WG1349125
trans-1,2-Dichloroethene	U			0.00157	0.00549	1	09/20/2019 12:19	WG1349125
1,2-Dichloropropane	U			0.00139	0.00549	1	09/20/2019 12:19	WG1349125
1,1-Dichloropropene	U			0.000769	0.00274	1	09/20/2019 12:19	WG1349125
1,3-Dichloropropane	U			0.00192	0.00549	1	09/20/2019 12:19	WG1349125
cis-1,3-Dichloropropene	U			0.000744	0.00274	1	09/20/2019 12:19	WG1349125
trans-1,3-Dichloropropene	U			0.00168	0.00549	1	09/20/2019 12:19	WG1349125
trans-1,4-Dichloro-2-butene	U			0.00154	0.00549	1	09/20/2019 12:19	WG1349125
2,2-Dichloropropane	U			0.000871	0.00274	1	09/20/2019 12:19	WG1349125
Di-isopropyl ether	U			0.000384	0.00110	1	09/20/2019 12:19	WG1349125
Ethylbenzene	U			0.000582	0.00274	1	09/20/2019 12:19	WG1349125
Hexachloro-1,3-butadiene	U			0.0139	0.0274	1	09/20/2019 12:19	WG1349125
2-Hexanone	U			0.0110	0.0274	1	09/20/2019 12:19	WG1349125
n-Hexane	0.00645			0.00116	0.00549	1	09/20/2019 12:19	WG1349125
Iodomethane	U			0.00664	0.0137	1	09/20/2019 12:19	WG1349125
Isopropylbenzene	U			0.000948	0.00274	1	09/20/2019 12:19	WG1349125
p-Isopropyltoluene	U			0.00256	0.00549	1	09/20/2019 12:19	WG1349125
2-Butanone (MEK)	0.0140	U	~~B J~~	0.0137	0.0274	1	09/20/2019 12:19	WG1349125
Methylene Chloride	U			0.00729	0.0274	1	09/20/2019 12:19	WG1349125
4-Methyl-2-pentanone (MIBK)	U			0.0110	0.0274	1	09/20/2019 12:19	WG1349125

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	09/20/2019 12:19	WG1349125
Naphthalene	U		0.00343	0.0137	1	09/20/2019 12:19	WG1349125
n-Propylbenzene	U		0.00130	0.00549	1	09/20/2019 12:19	WG1349125
Styrene	U		0.00300	0.0137	1	09/20/2019 12:19	WG1349125
1,1,1,2-Tetrachloroethane	U		0.000549	0.00274	1	09/20/2019 12:19	WG1349125
1,1,2,2-Tetrachloroethane	U		0.000428	0.00274	1	09/20/2019 12:19	WG1349125
1,1,2-Trichlorotrifluoroethane	U		0.000741	0.00274	1	09/20/2019 12:19	WG1349125
Tetrachloroethene	U		0.000769	0.00274	1	09/20/2019 12:19	WG1349125
Toluene	0.00428 J	J	0.00137	0.00549	1	09/20/2019 12:19	WG1349125
1,2,3-Trichlorobenzene	U		0.000686	0.00274	1	09/20/2019 12:19	WG1349125
1,2,4-Trichlorobenzene	U		0.00529	0.0137	1	09/20/2019 12:19	WG1349125
1,1,1-Trichloroethane	U		0.000302	0.00274	1	09/20/2019 12:19	WG1349125
1,1,2-Trichloroethane	U		0.000969	0.00274	1	09/20/2019 12:19	WG1349125
Trichloroethene	U		0.000439	0.00110	1	09/20/2019 12:19	WG1349125
Trichlorofluoromethane	U		0.000549	0.00274	1	09/20/2019 12:19	WG1349125
1,2,3-Trichloropropane	U		0.00560	0.0137	1	09/20/2019 12:19	WG1349125
1,2,4-Trimethylbenzene	U		0.00127	0.00549	1	09/20/2019 12:19	WG1349125
1,2,3-Trimethylbenzene	U		0.00126	0.00549	1	09/20/2019 12:19	WG1349125
1,3,5-Trimethylbenzene	U		0.00119	0.00549	1	09/20/2019 12:19	WG1349125
Vinyl acetate	U		0.00386	0.0137	1	09/20/2019 12:19	WG1349125
Vinyl chloride	U		0.000750	0.00274	1	09/20/2019 12:19	WG1349125
Xylenes, Total	U		0.00525	0.00714	1	09/20/2019 12:19	WG1349125
(S) Toluene-d8	*107*			*75.0-131*		*09/20/2019 12:19*	WG1349125
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*09/20/2019 12:19*	WG1349125
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*09/20/2019 12:19*	WG1349125

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	72.3		1	09/20/2019 18:00	WG1349349

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0384		0.0189	0.0346	1	09/20/2019 12:40	WG1349125
Acrylonitrile	U		0.00263	0.0173	1	09/20/2019 12:40	WG1349125
Benzene	0.00199		0.000553	0.00138	1	09/20/2019 12:40	WG1349125
Bromobenzene	U		0.00145	0.0173	1	09/20/2019 12:40	WG1349125
Bromodichloromethane	U		0.00109	0.00346	1	09/20/2019 12:40	WG1349125
Bromochloromethane	U		0.00156	0.00691	1	09/20/2019 12:40	WG1349125
Bromoform	U		0.00827	0.0346	1	09/20/2019 12:40	WG1349125
Bromomethane	U		0.00511	0.0173	1	09/20/2019 12:40	WG1349125
n-Butylbenzene	U		0.00531	0.0173	1	09/20/2019 12:40	WG1349125
sec-Butylbenzene	U		0.00350	0.0173	1	09/20/2019 12:40	WG1349125
tert-Butylbenzene	U		0.00214	0.00691	1	09/20/2019 12:40	WG1349125
Carbon disulfide	U		0.00561	0.0173	1	09/20/2019 12:40	WG1349125
Carbon tetrachloride	U		0.00149	0.00691	1	09/20/2019 12:40	WG1349125
Chlorobenzene	U		0.000792	0.00346	1	09/20/2019 12:40	WG1349125
Chlorodibromomethane	U		0.000622	0.00346	1	09/20/2019 12:40	WG1349125
Chloroethane	U		0.00149	0.00691	1	09/20/2019 12:40	WG1349125
Chloroform	U		0.000574	0.00346	1	09/20/2019 12:40	WG1349125
Chloromethane	U		0.00192	0.0173	1	09/20/2019 12:40	WG1349125
2-Chlorotoluene	U		0.00127	0.00346	1	09/20/2019 12:40	WG1349125
4-Chlorotoluene	U		0.00156	0.00691	1	09/20/2019 12:40	WG1349125
1,2-Dibromo-3-Chloropropane	U	UJ J0	0.00705	0.0346	1	09/20/2019 12:40	WG1349125
1,2-Dibromoethane	U		0.000726	0.00346	1	09/20/2019 12:40	WG1349125
Dibromomethane	U		0.00138	0.00691	1	09/20/2019 12:40	WG1349125
1,2-Dichlorobenzene	U		0.00200	0.00691	1	09/20/2019 12:40	WG1349125
1,3-Dichlorobenzene	U		0.00235	0.00691	1	09/20/2019 12:40	WG1349125
1,4-Dichlorobenzene	U		0.00272	0.00691	1	09/20/2019 12:40	WG1349125
Dichlorodifluoromethane	U		0.00113	0.00346	1	09/20/2019 12:40	WG1349125
1,1-Dichloroethane	U		0.000795	0.00346	1	09/20/2019 12:40	WG1349125
1,2-Dichloroethane	U		0.000657	0.00346	1	09/20/2019 12:40	WG1349125
1,1-Dichloroethene	U		0.000691	0.00346	1	09/20/2019 12:40	WG1349125
cis-1,2-Dichloroethene	U		0.000954	0.00346	1	09/20/2019 12:40	WG1349125
trans-1,2-Dichloroethene	U		0.00198	0.00691	1	09/20/2019 12:40	WG1349125
1,2-Dichloropropane	U		0.00176	0.00691	1	09/20/2019 12:40	WG1349125
1,1-Dichloropropene	U		0.000968	0.00346	1	09/20/2019 12:40	WG1349125
1,3-Dichloropropane	U		0.00242	0.00691	1	09/20/2019 12:40	WG1349125
cis-1,3-Dichloropropene	U		0.000937	0.00346	1	09/20/2019 12:40	WG1349125
trans-1,3-Dichloropropene	U		0.00212	0.00691	1	09/20/2019 12:40	WG1349125
trans-1,4-Dichloro-2-butene	U		0.00194	0.00691	1	09/20/2019 12:40	WG1349125
2,2-Dichloropropane	U		0.00110	0.00346	1	09/20/2019 12:40	WG1349125
Di-isopropyl ether	0.000791	J J	0.000484	0.00138	1	09/20/2019 12:40	WG1349125
Ethylbenzene	0.00123	J J	0.000733	0.00346	1	09/20/2019 12:40	WG1349125
Hexachloro-1,3-butadiene	U		0.0176	0.0346	1	09/20/2019 12:40	WG1349125
2-Hexanone	U		0.0138	0.0346	1	09/20/2019 12:40	WG1349125
n-Hexane	U		0.00147	0.00691	1	09/20/2019 12:40	WG1349125
Iodomethane	U		0.00836	0.0173	1	09/20/2019 12:40	WG1349125
Isopropylbenzene	U		0.00119	0.00346	1	09/20/2019 12:40	WG1349125
p-Isopropyltoluene	U		0.00322	0.00691	1	09/20/2019 12:40	WG1349125
2-Butanone (MEK)	0.0202	U ~~B J~~	0.0173	0.0346	1	09/20/2019 12:40	WG1349125
Methylene Chloride	U		0.00918	0.0346	1	09/20/2019 12:40	WG1349125
4-Methyl-2-pentanone (MIBK)	U		0.0138	0.0346	1	09/20/2019 12:40	WG1349125

JC 10/24/19

MW-329-20

Collected date/time: 09/12/19 10:30

SAMPLE RESULTS - 04

L1139523

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000408	0.00138	1	09/20/2019 12:40	WG1349125
Naphthalene	U			0.00431	0.0173	1	09/20/2019 12:40	WG1349125
n-Propylbenzene	U			0.00163	0.00691	1	09/20/2019 12:40	WG1349125
Styrene	U			0.00377	0.0173	1	09/20/2019 12:40	WG1349125
1,1,1,2-Tetrachloroethane	U			0.000691	0.00346	1	09/20/2019 12:40	WG1349125
1,1,2,2-Tetrachloroethane	0.000783	J	J	0.000539	0.00346	1	09/20/2019 12:40	WG1349125
1,1,2-Trichlorotrifluoroethane	U			0.000933	0.00346	1	09/20/2019 12:40	WG1349125
Tetrachloroethene	U			0.000968	0.00346	1	09/20/2019 12:40	WG1349125
Toluene	0.00671	J	J	0.00173	0.00691	1	09/20/2019 12:40	WG1349125
1,2,3-Trichlorobenzene	U			0.000864	0.00346	1	09/20/2019 12:40	WG1349125
1,2,4-Trichlorobenzene	U			0.00666	0.0173	1	09/20/2019 12:40	WG1349125
1,1,1-Trichloroethane	U			0.000380	0.00346	1	09/20/2019 12:40	WG1349125
1,1,2-Trichloroethane	U			0.00122	0.00346	1	09/20/2019 12:40	WG1349125
Trichloroethene	U			0.000553	0.00138	1	09/20/2019 12:40	WG1349125
Trichlorofluoromethane	U			0.000691	0.00346	1	09/20/2019 12:40	WG1349125
1,2,3-Trichloropropane	U			0.00705	0.0173	1	09/20/2019 12:40	WG1349125
1,2,4-Trimethylbenzene	U			0.00160	0.00691	1	09/20/2019 12:40	WG1349125
1,2,3-Trimethylbenzene	U			0.00159	0.00691	1	09/20/2019 12:40	WG1349125
1,3,5-Trimethylbenzene	U			0.00149	0.00691	1	09/20/2019 12:40	WG1349125
Vinyl acetate	U			0.00487	0.0173	1	09/20/2019 12:40	WG1349125
Vinyl chloride	U			0.000944	0.00346	1	09/20/2019 12:40	WG1349125
Xylenes, Total	0.00687	J	J	0.00661	0.00899	1	09/20/2019 12:40	WG1349125
(S) Toluene-d8	*105*				*75.0-131*		*09/20/2019 12:40*	WG1349125
(S) 4-Bromofluorobenzene	*98.4*				*67.0-138*		*09/20/2019 12:40*	WG1349125
(S) 1,2-Dichloroethane-d4	*95.1*				*70.0-130*		*09/20/2019 12:40*	WG1349125

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	69.8		1	09/20/2019 18:00	WG1349349

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0205	U	~~B J~~	0.0196	0.0358	1	09/20/2019 22:42	WG1349721
Acrylonitrile	U			0.00272	0.0179	1	09/20/2019 22:42	WG1349721
Benzene	U			0.000573	0.00143	1	09/20/2019 22:42	WG1349721
Bromobenzene	U			0.00150	0.0179	1	09/20/2019 22:42	WG1349721
Bromodichloromethane	U			0.00113	0.00358	1	09/20/2019 22:42	WG1349721
Bromochloromethane	U			0.00162	0.00717	1	09/20/2019 22:42	WG1349721
Bromoform	U			0.00857	0.0358	1	09/20/2019 22:42	WG1349721
Bromomethane	U			0.00530	0.0179	1	09/20/2019 22:42	WG1349721
n-Butylbenzene	U			0.00550	0.0179	1	09/20/2019 22:42	WG1349721
sec-Butylbenzene	U			0.00363	0.0179	1	09/20/2019 22:42	WG1349721
tert-Butylbenzene	U			0.00222	0.00717	1	09/20/2019 22:42	WG1349721
Carbon disulfide	U	UJ	J4	0.00582	0.0179	1	09/20/2019 22:42	WG1349721
Carbon tetrachloride	U			0.00155	0.00717	1	09/20/2019 22:42	WG1349721
Chlorobenzene	U			0.000821	0.00358	1	09/20/2019 22:42	WG1349721
Chlorodibromomethane	U			0.000645	0.00358	1	09/20/2019 22:42	WG1349721
Chloroethane	U			0.00155	0.00717	1	09/20/2019 22:42	WG1349721
Chloroform	U			0.000595	0.00358	1	09/20/2019 22:42	WG1349721
Chloromethane	U			0.00199	0.0179	1	09/20/2019 22:42	WG1349721
2-Chlorotoluene	U			0.00132	0.00358	1	09/20/2019 22:42	WG1349721
4-Chlorotoluene	U			0.00162	0.00717	1	09/20/2019 22:42	WG1349721
1,2-Dibromo-3-Chloropropane	U			0.00731	0.0358	1	09/20/2019 22:42	WG1349721
1,2-Dibromoethane	U			0.000752	0.00358	1	09/20/2019 22:42	WG1349721
Dibromomethane	U			0.00143	0.00717	1	09/20/2019 22:42	WG1349721
1,2-Dichlorobenzene	U			0.00208	0.00717	1	09/20/2019 22:42	WG1349721
1,3-Dichlorobenzene	U			0.00244	0.00717	1	09/20/2019 22:42	WG1349721
1,4-Dichlorobenzene	U			0.00282	0.00717	1	09/20/2019 22:42	WG1349721
Dichlorodifluoromethane	U			0.00117	0.00358	1	09/20/2019 22:42	WG1349721
1,1-Dichloroethane	U			0.000824	0.00358	1	09/20/2019 22:42	WG1349721
1,2-Dichloroethane	U			0.000681	0.00358	1	09/20/2019 22:42	WG1349721
1,1-Dichloroethene	U			0.000717	0.00358	1	09/20/2019 22:42	WG1349721
cis-1,2-Dichloroethene	U			0.000989	0.00358	1	09/20/2019 22:42	WG1349721
trans-1,2-Dichloroethene	U			0.00205	0.00717	1	09/20/2019 22:42	WG1349721
1,2-Dichloropropane	U			0.00182	0.00717	1	09/20/2019 22:42	WG1349721
1,1-Dichloropropene	U			0.00100	0.00358	1	09/20/2019 22:42	WG1349721
1,3-Dichloropropane	U			0.00251	0.00717	1	09/20/2019 22:42	WG1349721
cis-1,3-Dichloropropene	U			0.000972	0.00358	1	09/20/2019 22:42	WG1349721
trans-1,3-Dichloropropene	U			0.00219	0.00717	1	09/20/2019 22:42	WG1349721
trans-1,4-Dichloro-2-butene	U			0.00201	0.00717	1	09/20/2019 22:42	WG1349721
2,2-Dichloropropane	U			0.00114	0.00358	1	09/20/2019 22:42	WG1349721
Di-isopropyl ether	U			0.000502	0.00143	1	09/20/2019 22:42	WG1349721
Ethylbenzene	U			0.000760	0.00358	1	09/20/2019 22:42	WG1349721
Hexachloro-1,3-butadiene	U			0.0182	0.0358	1	09/20/2019 22:42	WG1349721
2-Hexanone	U			0.0143	0.0358	1	09/20/2019 22:42	WG1349721
n-Hexane	U			0.00152	0.00717	1	09/20/2019 22:42	WG1349721
Iodomethane	U			0.00867	0.0179	1	09/20/2019 22:42	WG1349721
Isopropylbenzene	U			0.00124	0.00358	1	09/20/2019 22:42	WG1349721
p-Isopropyltoluene	U			0.00334	0.00717	1	09/20/2019 22:42	WG1349721
2-Butanone (MEK)	U			0.0179	0.0358	1	09/20/2019 22:42	WG1349721
Methylene Chloride	0.0104	U	~~B J~~	0.00952	0.0358	1	09/20/2019 22:42	WG1349721
4-Methyl-2-pentanone (MIBK)	U			0.0143	0.0358	1	09/20/2019 22:42	WG1349721

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MW-329-25

Collected date/time: 09/12/19 10:50

SAMPLE RESULTS - 05

L1139523

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000423	0.00143	1	09/20/2019 22:42	WG1349721
Naphthalene	U		0.00447	0.0179	1	09/20/2019 22:42	WG1349721
n-Propylbenzene	U		0.00169	0.00717	1	09/20/2019 22:42	WG1349721
Styrene	U		0.00391	0.0179	1	09/20/2019 22:42	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000717	0.00358	1	09/20/2019 22:42	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000559	0.00358	1	09/20/2019 22:42	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000967	0.00358	1	09/20/2019 22:42	WG1349721
Tetrachloroethene	U		0.00100	0.00358	1	09/22/2019 16:59	WG1350186
Toluene	0.00417 J	J	0.00179	0.00717	1	09/20/2019 22:42	WG1349721
1,2,3-Trichlorobenzene	U		0.000896	0.00358	1	09/20/2019 22:42	WG1349721
1,2,4-Trichlorobenzene	U		0.00691	0.0179	1	09/20/2019 22:42	WG1349721
1,1,1-Trichloroethane	U		0.000394	0.00358	1	09/20/2019 22:42	WG1349721
1,1,2-Trichloroethane	U		0.00127	0.00358	1	09/20/2019 22:42	WG1349721
Trichloroethene	U		0.000573	0.00143	1	09/20/2019 22:42	WG1349721
Trichlorofluoromethane	U		0.000717	0.00358	1	09/20/2019 22:42	WG1349721
1,2,3-Trichloropropane	U		0.00731	0.0179	1	09/20/2019 22:42	WG1349721
1,2,4-Trimethylbenzene	U		0.00166	0.00717	1	09/20/2019 22:42	WG1349721
1,2,3-Trimethylbenzene	U		0.00165	0.00717	1	09/20/2019 22:42	WG1349721
1,3,5-Trimethylbenzene	U		0.00155	0.00717	1	09/20/2019 22:42	WG1349721
Vinyl acetate	U		0.00504	0.0179	1	09/20/2019 22:42	WG1349721
Vinyl chloride	U		0.000979	0.00358	1	09/20/2019 22:42	WG1349721
Xylenes, Total	U		0.00685	0.00932	1	09/20/2019 22:42	WG1349721
(S) Toluene-d8	*105*			*75.0-131*		*09/20/2019 22:42*	WG1349721
(S) Toluene-d8	*106*			*75.0-131*		*09/22/2019 16:59*	WG1350186
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/20/2019 22:42*	WG1349721
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/22/2019 16:59*	WG1350186
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/20/2019 22:42*	WG1349721
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*09/22/2019 16:59*	WG1350186

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.0		1	09/20/2019 18:00	WG1349349

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0169	0.0309	1	09/20/2019 23:33	WG1349721
Acrylonitrile	U		0.00235	0.0154	1	09/20/2019 23:33	WG1349721
Benzene	0.00404		0.000494	0.00124	1	09/20/2019 23:33	WG1349721
Bromobenzene	U		0.00130	0.0154	1	09/20/2019 23:33	WG1349721
Bromodichloromethane	U		0.000973	0.00309	1	09/20/2019 23:33	WG1349721
Bromochloromethane	U		0.00140	0.00618	1	09/20/2019 23:33	WG1349721
Bromoform	U		0.00739	0.0309	1	09/20/2019 23:33	WG1349721
Bromomethane	U		0.00457	0.0154	1	09/20/2019 23:33	WG1349721
n-Butylbenzene	U		0.00474	0.0154	1	09/20/2019 23:33	WG1349721
sec-Butylbenzene	U		0.00313	0.0154	1	09/20/2019 23:33	WG1349721
tert-Butylbenzene	U		0.00191	0.00618	1	09/20/2019 23:33	WG1349721
Carbon disulfide	U UJ	J4	0.00501	0.0154	1	09/20/2019 23:33	WG1349721
Carbon tetrachloride	U		0.00133	0.00618	1	09/20/2019 23:33	WG1349721
Chlorobenzene	U		0.000708	0.00309	1	09/20/2019 23:33	WG1349721
Chlorodibromomethane	U		0.000556	0.00309	1	09/20/2019 23:33	WG1349721
Chloroethane	U		0.00133	0.00618	1	09/20/2019 23:33	WG1349721
Chloroform	0.000522 U	~~B J~~	0.000513	0.00309	1	09/20/2019 23:33	WG1349721
Chloromethane	U		0.00172	0.0154	1	09/20/2019 23:33	WG1349721
2-Chlorotoluene	U		0.00114	0.00309	1	09/20/2019 23:33	WG1349721
4-Chlorotoluene	U		0.00140	0.00618	1	09/20/2019 23:33	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00630	0.0309	1	09/20/2019 23:33	WG1349721
1,2-Dibromoethane	U		0.000648	0.00309	1	09/20/2019 23:33	WG1349721
Dibromomethane	U		0.00124	0.00618	1	09/20/2019 23:33	WG1349721
1,2-Dichlorobenzene	U		0.00179	0.00618	1	09/20/2019 23:33	WG1349721
1,3-Dichlorobenzene	U		0.00210	0.00618	1	09/20/2019 23:33	WG1349721
1,4-Dichlorobenzene	U		0.00243	0.00618	1	09/20/2019 23:33	WG1349721
Dichlorodifluoromethane	U		0.00101	0.00309	1	09/20/2019 23:33	WG1349721
1,1-Dichloroethane	U		0.000710	0.00309	1	09/20/2019 23:33	WG1349721
1,2-Dichloroethane	U		0.000587	0.00309	1	09/20/2019 23:33	WG1349721
1,1-Dichloroethene	U		0.000618	0.00309	1	09/20/2019 23:33	WG1349721
cis-1,2-Dichloroethene	U		0.000852	0.00309	1	09/20/2019 23:33	WG1349721
trans-1,2-Dichloroethene	U		0.00177	0.00618	1	09/20/2019 23:33	WG1349721
1,2-Dichloropropane	U		0.00157	0.00618	1	09/20/2019 23:33	WG1349721
1,1-Dichloropropene	U		0.000865	0.00309	1	09/20/2019 23:33	WG1349721
1,3-Dichloropropane	U		0.00216	0.00618	1	09/20/2019 23:33	WG1349721
cis-1,3-Dichloropropene	U		0.000837	0.00309	1	09/20/2019 23:33	WG1349721
trans-1,3-Dichloropropene	U		0.00189	0.00618	1	09/20/2019 23:33	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00173	0.00618	1	09/20/2019 23:33	WG1349721
2,2-Dichloropropane	U		0.000980	0.00309	1	09/20/2019 23:33	WG1349721
Di-isopropyl ether	U		0.000432	0.00124	1	09/20/2019 23:33	WG1349721
Ethylbenzene	U		0.000655	0.00309	1	09/20/2019 23:33	WG1349721
Hexachloro-1,3-butadiene	U		0.0157	0.0309	1	09/20/2019 23:33	WG1349721
2-Hexanone	U		0.0124	0.0309	1	09/20/2019 23:33	WG1349721
n-Hexane	U		0.00131	0.00618	1	09/20/2019 23:33	WG1349721
Iodomethane	U		0.00747	0.0154	1	09/20/2019 23:33	WG1349721
Isopropylbenzene	U		0.00107	0.00309	1	09/20/2019 23:33	WG1349721
p-Isopropyltoluene	U		0.00288	0.00618	1	09/20/2019 23:33	WG1349721
2-Butanone (MEK)	U		0.0154	0.0309	1	09/20/2019 23:33	WG1349721
Methylene Chloride	0.0101 U	~~B J~~	0.00820	0.0309	1	09/20/2019 23:33	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0309	1	09/20/2019 23:33	WG1349721

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000364	0.00124	1	09/20/2019 23:33	WG1349721
Naphthalene	U		0.00385	0.0154	1	09/20/2019 23:33	WG1349721
n-Propylbenzene	U		0.00146	0.00618	1	09/20/2019 23:33	WG1349721
Styrene	U		0.00337	0.0154	1	09/20/2019 23:33	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000618	0.00309	1	09/20/2019 23:33	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000482	0.00309	1	09/20/2019 23:33	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000834	0.00309	1	09/20/2019 23:33	WG1349721
Tetrachloroethene	U		0.000865	0.00309	1	09/22/2019 16:39	WG1350186
Toluene	0.00491 J	J	0.00154	0.00618	1	09/20/2019 23:33	WG1349721
1,2,3-Trichlorobenzene	U		0.000772	0.00309	1	09/20/2019 23:33	WG1349721
1,2,4-Trichlorobenzene	U		0.00595	0.0154	1	09/20/2019 23:33	WG1349721
1,1,1-Trichloroethane	U		0.000340	0.00309	1	09/20/2019 23:33	WG1349721
1,1,2-Trichloroethane	U		0.00109	0.00309	1	09/20/2019 23:33	WG1349721
Trichloroethene	U		0.000494	0.00124	1	09/20/2019 23:33	WG1349721
Trichlorofluoromethane	U		0.000618	0.00309	1	09/20/2019 23:33	WG1349721
1,2,3-Trichloropropane	U		0.00630	0.0154	1	09/20/2019 23:33	WG1349721
1,2,4-Trimethylbenzene	U		0.00143	0.00618	1	09/20/2019 23:33	WG1349721
1,2,3-Trimethylbenzene	U		0.00142	0.00618	1	09/20/2019 23:33	WG1349721
1,3,5-Trimethylbenzene	U		0.00133	0.00618	1	09/20/2019 23:33	WG1349721
Vinyl acetate	U		0.00435	0.0154	1	09/20/2019 23:33	WG1349721
Vinyl chloride	U		0.000844	0.00309	1	09/20/2019 23:33	WG1349721
Xylenes, Total	U		0.00590	0.00803	1	09/20/2019 23:33	WG1349721
(S) Toluene-d8	*107*			*75.0-131*		*09/20/2019 23:33*	WG1349721
(S) Toluene-d8	*104*			*75.0-131*		*09/22/2019 16:39*	WG1350186
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*09/20/2019 23:33*	WG1349721
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/22/2019 16:39*	WG1350186
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/20/2019 23:33*	WG1349721
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*09/22/2019 16:39*	WG1350186

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.6		1	09/20/2019 18:00	WG1349349

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0237	U ~~B J~~	0.0168	0.0306	1	09/20/2019 23:54	WG1349721
Acrylonitrile	U		0.00233	0.0153	1	09/20/2019 23:54	WG1349721
Benzene	U		0.000490	0.00123	1	09/20/2019 23:54	WG1349721
Bromobenzene	U		0.00129	0.0153	1	09/20/2019 23:54	WG1349721
Bromodichloromethane	U		0.000966	0.00306	1	09/20/2019 23:54	WG1349721
Bromochloromethane	U		0.00138	0.00613	1	09/20/2019 23:54	WG1349721
Bromoform	U		0.00733	0.0306	1	09/20/2019 23:54	WG1349721
Bromomethane	U		0.00453	0.0153	1	09/20/2019 23:54	WG1349721
n-Butylbenzene	U		0.00471	0.0153	1	09/20/2019 23:54	WG1349721
sec-Butylbenzene	U		0.00310	0.0153	1	09/20/2019 23:54	WG1349721
tert-Butylbenzene	U		0.00190	0.00613	1	09/20/2019 23:54	WG1349721
Carbon disulfide	U	UJ J4	0.00498	0.0153	1	09/20/2019 23:54	WG1349721
Carbon tetrachloride	U		0.00132	0.00613	1	09/20/2019 23:54	WG1349721
Chlorobenzene	U		0.000702	0.00306	1	09/20/2019 23:54	WG1349721
Chlorodibromomethane	U		0.000551	0.00306	1	09/20/2019 23:54	WG1349721
Chloroethane	U		0.00132	0.00613	1	09/20/2019 23:54	WG1349721
Chloroform	U		0.000509	0.00306	1	09/20/2019 23:54	WG1349721
Chloromethane	U		0.00170	0.0153	1	09/20/2019 23:54	WG1349721
2-Chlorotoluene	U		0.00113	0.00306	1	09/20/2019 23:54	WG1349721
4-Chlorotoluene	U		0.00138	0.00613	1	09/20/2019 23:54	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00625	0.0306	1	09/20/2019 23:54	WG1349721
1,2-Dibromoethane	U		0.000643	0.00306	1	09/20/2019 23:54	WG1349721
Dibromomethane	U		0.00123	0.00613	1	09/20/2019 23:54	WG1349721
1,2-Dichlorobenzene	U		0.00178	0.00613	1	09/20/2019 23:54	WG1349721
1,3-Dichlorobenzene	U		0.00208	0.00613	1	09/20/2019 23:54	WG1349721
1,4-Dichlorobenzene	U		0.00241	0.00613	1	09/20/2019 23:54	WG1349721
Dichlorodifluoromethane	U		0.00100	0.00306	1	09/20/2019 23:54	WG1349721
1,1-Dichloroethane	U		0.000705	0.00306	1	09/20/2019 23:54	WG1349721
1,2-Dichloroethane	U		0.000582	0.00306	1	09/20/2019 23:54	WG1349721
1,1-Dichloroethene	U		0.000613	0.00306	1	09/20/2019 23:54	WG1349721
cis-1,2-Dichloroethene	U		0.000846	0.00306	1	09/20/2019 23:54	WG1349721
trans-1,2-Dichloroethene	U		0.00175	0.00613	1	09/20/2019 23:54	WG1349721
1,2-Dichloropropane	U		0.00156	0.00613	1	09/20/2019 23:54	WG1349721
1,1-Dichloropropene	U		0.000858	0.00306	1	09/20/2019 23:54	WG1349721
1,3-Dichloropropane	U		0.00214	0.00613	1	09/20/2019 23:54	WG1349721
cis-1,3-Dichloropropene	U		0.000831	0.00306	1	09/20/2019 23:54	WG1349721
trans-1,3-Dichloropropene	U		0.00187	0.00613	1	09/20/2019 23:54	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00172	0.00613	1	09/20/2019 23:54	WG1349721
2,2-Dichloropropane	U		0.000972	0.00306	1	09/20/2019 23:54	WG1349721
Di-isopropyl ether	U		0.000429	0.00123	1	09/20/2019 23:54	WG1349721
Ethylbenzene	U		0.000649	0.00306	1	09/20/2019 23:54	WG1349721
Hexachloro-1,3-butadiene	U		0.0156	0.0306	1	09/20/2019 23:54	WG1349721
2-Hexanone	U		0.0123	0.0306	1	09/20/2019 23:54	WG1349721
n-Hexane	U		0.00130	0.00613	1	09/20/2019 23:54	WG1349721
Iodomethane	U		0.00741	0.0153	1	09/20/2019 23:54	WG1349721
Isopropylbenzene	U		0.00106	0.00306	1	09/20/2019 23:54	WG1349721
p-Isopropyltoluene	U		0.00286	0.00613	1	09/20/2019 23:54	WG1349721
2-Butanone (MEK)	U		0.0153	0.0306	1	09/20/2019 23:54	WG1349721
Methylene Chloride	U		0.00814	0.0306	1	09/20/2019 23:54	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0306	1	09/20/2019 23:54	WG1349721

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000361	0.00123	1	09/20/2019 23:54	WG1349721
Naphthalene	U		0.00382	0.0153	1	09/20/2019 23:54	WG1349721
n-Propylbenzene	U		0.00145	0.00613	1	09/20/2019 23:54	WG1349721
Styrene	U		0.00335	0.0153	1	09/20/2019 23:54	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000613	0.00306	1	09/20/2019 23:54	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000478	0.00306	1	09/20/2019 23:54	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000827	0.00306	1	09/20/2019 23:54	WG1349721
Tetrachloroethene	U		0.000858	0.00306	1	09/20/2019 23:54	WG1349721
Toluene	0.00574 J	J	0.00153	0.00613	1	09/20/2019 23:54	WG1349721
1,2,3-Trichlorobenzene	U		0.000766	0.00306	1	09/20/2019 23:54	WG1349721
1,2,4-Trichlorobenzene	U		0.00591	0.0153	1	09/20/2019 23:54	WG1349721
1,1,1-Trichloroethane	U		0.000337	0.00306	1	09/20/2019 23:54	WG1349721
1,1,2-Trichloroethane	U		0.00108	0.00306	1	09/20/2019 23:54	WG1349721
Trichloroethene	U		0.000490	0.00123	1	09/20/2019 23:54	WG1349721
Trichlorofluoromethane	0.00169 J	J	0.000613	0.00306	1	09/20/2019 23:54	WG1349721
1,2,3-Trichloropropane	U		0.00625	0.0153	1	09/20/2019 23:54	WG1349721
1,2,4-Trimethylbenzene	U		0.00142	0.00613	1	09/20/2019 23:54	WG1349721
1,2,3-Trimethylbenzene	U		0.00141	0.00613	1	09/20/2019 23:54	WG1349721
1,3,5-Trimethylbenzene	U		0.00132	0.00613	1	09/20/2019 23:54	WG1349721
Vinyl acetate	U		0.00431	0.0153	1	09/20/2019 23:54	WG1349721
Vinyl chloride	U		0.000837	0.00306	1	09/20/2019 23:54	WG1349721
Xylenes, Total	U		0.00586	0.00797	1	09/20/2019 23:54	WG1349721
(S) Toluene-d8	*103*			*75.0-131*		*09/20/2019 23:54*	WG1349721
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/20/2019 23:54*	WG1349721
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/20/2019 23:54*	WG1349721

JC 10/24/19

MW-329-40
Collected date/time: 09/12/19 11:10

SAMPLE RESULTS - 08

L1139523

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	81.1		1	09/20/2019 18:00	WG1349349

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0263 U	~~BJ~~	0.0169	0.0308	1	09/21/2019 00:15	WG1349721
Acrylonitrile	U		0.00234	0.0154	1	09/21/2019 00:15	WG1349721
Benzene	U		0.000493	0.00123	1	09/21/2019 00:15	WG1349721
Bromobenzene	U		0.00129	0.0154	1	09/21/2019 00:15	WG1349721
Bromodichloromethane	U		0.000971	0.00308	1	09/21/2019 00:15	WG1349721
Bromochloromethane	U		0.00139	0.00616	1	09/21/2019 00:15	WG1349721
Bromoform	U		0.00737	0.0308	1	09/21/2019 00:15	WG1349721
Bromomethane	U		0.00456	0.0154	1	09/21/2019 00:15	WG1349721
n-Butylbenzene	U		0.00473	0.0154	1	09/21/2019 00:15	WG1349721
sec-Butylbenzene	U		0.00312	0.0154	1	09/21/2019 00:15	WG1349721
tert-Butylbenzene	U		0.00191	0.00616	1	09/21/2019 00:15	WG1349721
Carbon disulfide	U UJ	J4	0.00500	0.0154	1	09/21/2019 00:15	WG1349721
Carbon tetrachloride	U		0.00133	0.00616	1	09/21/2019 00:15	WG1349721
Chlorobenzene	U		0.000706	0.00308	1	09/21/2019 00:15	WG1349721
Chlorodibromomethane	U		0.000555	0.00308	1	09/21/2019 00:15	WG1349721
Chloroethane	U		0.00133	0.00616	1	09/21/2019 00:15	WG1349721
Chloroform	U		0.000512	0.00308	1	09/21/2019 00:15	WG1349721
Chloromethane	U		0.00171	0.0154	1	09/21/2019 00:15	WG1349721
2-Chlorotoluene	U		0.00113	0.00308	1	09/21/2019 00:15	WG1349721
4-Chlorotoluene	U		0.00139	0.00616	1	09/21/2019 00:15	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00629	0.0308	1	09/21/2019 00:15	WG1349721
1,2-Dibromoethane	U		0.000647	0.00308	1	09/21/2019 00:15	WG1349721
Dibromomethane	U		0.00123	0.00616	1	09/21/2019 00:15	WG1349721
1,2-Dichlorobenzene	U		0.00179	0.00616	1	09/21/2019 00:15	WG1349721
1,3-Dichlorobenzene	U		0.00210	0.00616	1	09/21/2019 00:15	WG1349721
1,4-Dichlorobenzene	U		0.00243	0.00616	1	09/21/2019 00:15	WG1349721
Dichlorodifluoromethane	U		0.00101	0.00308	1	09/21/2019 00:15	WG1349721
1,1-Dichloroethane	U		0.000709	0.00308	1	09/21/2019 00:15	WG1349721
1,2-Dichloroethane	U		0.000585	0.00308	1	09/21/2019 00:15	WG1349721
1,1-Dichloroethene	U		0.000616	0.00308	1	09/21/2019 00:15	WG1349721
cis-1,2-Dichloroethene	U		0.000850	0.00308	1	09/21/2019 00:15	WG1349721
trans-1,2-Dichloroethene	U		0.00176	0.00616	1	09/21/2019 00:15	WG1349721
1,2-Dichloropropane	U		0.00157	0.00616	1	09/21/2019 00:15	WG1349721
1,1-Dichloropropene	U		0.000863	0.00308	1	09/21/2019 00:15	WG1349721
1,3-Dichloropropane	U		0.00216	0.00616	1	09/21/2019 00:15	WG1349721
cis-1,3-Dichloropropene	U		0.000836	0.00308	1	09/21/2019 00:15	WG1349721
trans-1,3-Dichloropropene	U		0.00189	0.00616	1	09/21/2019 00:15	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00173	0.00616	1	09/21/2019 00:15	WG1349721
2,2-Dichloropropane	U		0.000977	0.00308	1	09/21/2019 00:15	WG1349721
Di-isopropyl ether	U		0.000431	0.00123	1	09/21/2019 00:15	WG1349721
Ethylbenzene	U		0.000653	0.00308	1	09/21/2019 00:15	WG1349721
Hexachloro-1,3-butadiene	U		0.0157	0.0308	1	09/21/2019 00:15	WG1349721
2-Hexanone	U		0.0123	0.0308	1	09/21/2019 00:15	WG1349721
n-Hexane	U		0.00131	0.00616	1	09/21/2019 00:15	WG1349721
Iodomethane	U		0.00746	0.0154	1	09/21/2019 00:15	WG1349721
Isopropylbenzene	U		0.00106	0.00308	1	09/21/2019 00:15	WG1349721
p-Isopropyltoluene	U		0.00287	0.00616	1	09/21/2019 00:15	WG1349721
2-Butanone (MEK)	U		0.0154	0.0308	1	09/21/2019 00:15	WG1349721
Methylene Chloride	U		0.00818	0.0308	1	09/21/2019 00:15	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0308	1	09/21/2019 00:15	WG1349721

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000364	0.00123	1	09/21/2019 00:15	WG1349721
Naphthalene	U		0.00385	0.0154	1	09/21/2019 00:15	WG1349721
n-Propylbenzene	U		0.00145	0.00616	1	09/21/2019 00:15	WG1349721
Styrene	U		0.00336	0.0154	1	09/21/2019 00:15	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000616	0.00308	1	09/21/2019 00:15	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000481	0.00308	1	09/21/2019 00:15	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000832	0.00308	1	09/21/2019 00:15	WG1349721
Tetrachloroethene	U		0.000863	0.00308	1	09/21/2019 00:15	WG1349721
Toluene	0.00891		0.00154	0.00616	1	09/21/2019 00:15	WG1349721
1,2,3-Trichlorobenzene	U		0.000770	0.00308	1	09/21/2019 00:15	WG1349721
1,2,4-Trichlorobenzene	U		0.00594	0.0154	1	09/21/2019 00:15	WG1349721
1,1,1-Trichloroethane	U		0.000339	0.00308	1	09/21/2019 00:15	WG1349721
1,1,2-Trichloroethane	U		0.00109	0.00308	1	09/21/2019 00:15	WG1349721
Trichloroethene	U		0.000493	0.00123	1	09/21/2019 00:15	WG1349721
Trichlorofluoromethane	U		0.000616	0.00308	1	09/21/2019 00:15	WG1349721
1,2,3-Trichloropropane	U		0.00629	0.0154	1	09/21/2019 00:15	WG1349721
1,2,4-Trimethylbenzene	U		0.00143	0.00616	1	09/21/2019 00:15	WG1349721
1,2,3-Trimethylbenzene	U		0.00142	0.00616	1	09/21/2019 00:15	WG1349721
1,3,5-Trimethylbenzene	U		0.00133	0.00616	1	09/21/2019 00:15	WG1349721
Vinyl acetate	U		0.00434	0.0154	1	09/21/2019 00:15	WG1349721
Vinyl chloride	U		0.000842	0.00308	1	09/21/2019 00:15	WG1349721
Xylenes, Total	U		0.00589	0.00801	1	09/21/2019 00:15	WG1349721
(S) Toluene-d8	*103*			*75.0-131*		*09/21/2019 00:15*	WG1349721
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/21/2019 00:15*	WG1349721
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/21/2019 00:15*	WG1349721

JC 10/24/19

MW-329-45
Collected date/time: 09/12/19 11:15

SAMPLE RESULTS - 09

L1139523

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.8		1	09/20/2019 18:00	WG1349349

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0249 U	~~B J~~	0.0163	0.0298	1	09/21/2019 00:35	WG1349721
Acrylonitrile	U		0.00227	0.0149	1	09/21/2019 00:35	WG1349721
Benzene	U		0.000477	0.00119	1	09/21/2019 00:35	WG1349721
Bromobenzene	U		0.00125	0.0149	1	09/21/2019 00:35	WG1349721
Bromodichloromethane	U		0.000940	0.00298	1	09/21/2019 00:35	WG1349721
Bromochloromethane	U		0.00135	0.00596	1	09/21/2019 00:35	WG1349721
Bromoform	U		0.00713	0.0298	1	09/21/2019 00:35	WG1349721
Bromomethane	U		0.00441	0.0149	1	09/21/2019 00:35	WG1349721
n-Butylbenzene	U		0.00458	0.0149	1	09/21/2019 00:35	WG1349721
sec-Butylbenzene	U		0.00302	0.0149	1	09/21/2019 00:35	WG1349721
tert-Butylbenzene	U		0.00185	0.00596	1	09/21/2019 00:35	WG1349721
Carbon disulfide	U UJ	J4	0.00484	0.0149	1	09/21/2019 00:35	WG1349721
Carbon tetrachloride	U		0.00129	0.00596	1	09/21/2019 00:35	WG1349721
Chlorobenzene	U		0.000683	0.00298	1	09/21/2019 00:35	WG1349721
Chlorodibromomethane	U		0.000537	0.00298	1	09/21/2019 00:35	WG1349721
Chloroethane	U		0.00129	0.00596	1	09/21/2019 00:35	WG1349721
Chloroform	U		0.000495	0.00298	1	09/21/2019 00:35	WG1349721
Chloromethane	U		0.00166	0.0149	1	09/21/2019 00:35	WG1349721
2-Chlorotoluene	U		0.00110	0.00298	1	09/21/2019 00:35	WG1349721
4-Chlorotoluene	U		0.00135	0.00596	1	09/21/2019 00:35	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00608	0.0298	1	09/21/2019 00:35	WG1349721
1,2-Dibromoethane	U		0.000626	0.00298	1	09/21/2019 00:35	WG1349721
Dibromomethane	U		0.00119	0.00596	1	09/21/2019 00:35	WG1349721
1,2-Dichlorobenzene	U		0.00173	0.00596	1	09/21/2019 00:35	WG1349721
1,3-Dichlorobenzene	U		0.00203	0.00596	1	09/21/2019 00:35	WG1349721
1,4-Dichlorobenzene	U		0.00235	0.00596	1	09/21/2019 00:35	WG1349721
Dichlorodifluoromethane	U		0.000976	0.00298	1	09/21/2019 00:35	WG1349721
1,1-Dichloroethane	U		0.000686	0.00298	1	09/21/2019 00:35	WG1349721
1,2-Dichloroethane	U		0.000567	0.00298	1	09/21/2019 00:35	WG1349721
1,1-Dichloroethene	U		0.000596	0.00298	1	09/21/2019 00:35	WG1349721
cis-1,2-Dichloroethene	U		0.000823	0.00298	1	09/21/2019 00:35	WG1349721
trans-1,2-Dichloroethene	U		0.00171	0.00596	1	09/21/2019 00:35	WG1349721
1,2-Dichloropropane	U		0.00151	0.00596	1	09/21/2019 00:35	WG1349721
1,1-Dichloropropene	U		0.000835	0.00298	1	09/21/2019 00:35	WG1349721
1,3-Dichloropropane	U		0.00209	0.00596	1	09/21/2019 00:35	WG1349721
cis-1,3-Dichloropropene	U		0.000809	0.00298	1	09/21/2019 00:35	WG1349721
trans-1,3-Dichloropropene	U		0.00182	0.00596	1	09/21/2019 00:35	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00167	0.00596	1	09/21/2019 00:35	WG1349721
2,2-Dichloropropane	U		0.000946	0.00298	1	09/21/2019 00:35	WG1349721
Di-isopropyl ether	U		0.000417	0.00119	1	09/21/2019 00:35	WG1349721
Ethylbenzene	U		0.000632	0.00298	1	09/21/2019 00:35	WG1349721
Hexachloro-1,3-butadiene	U		0.0151	0.0298	1	09/21/2019 00:35	WG1349721
2-Hexanone	U		0.0119	0.0298	1	09/21/2019 00:35	WG1349721
n-Hexane	U		0.00126	0.00596	1	09/21/2019 00:35	WG1349721
Iodomethane	U		0.00722	0.0149	1	09/21/2019 00:35	WG1349721
Isopropylbenzene	U		0.00103	0.00298	1	09/21/2019 00:35	WG1349721
p-Isopropyltoluene	U		0.00278	0.00596	1	09/21/2019 00:35	WG1349721
2-Butanone (MEK)	U		0.0149	0.0298	1	09/21/2019 00:35	WG1349721
Methylene Chloride	U		0.00792	0.0298	1	09/21/2019 00:35	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	09/21/2019 00:35	WG1349721

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	09/21/2019 00:35	WG1349721
Naphthalene	U		0.00372	0.0149	1	09/21/2019 00:35	WG1349721
n-Propylbenzene	U		0.00141	0.00596	1	09/21/2019 00:35	WG1349721
Styrene	U		0.00326	0.0149	1	09/21/2019 00:35	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000596	0.00298	1	09/21/2019 00:35	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000465	0.00298	1	09/21/2019 00:35	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000805	0.00298	1	09/21/2019 00:35	WG1349721
Tetrachloroethene	U		0.000835	0.00298	1	09/21/2019 00:35	WG1349721
Toluene	0.00430 J	J	0.00149	0.00596	1	09/21/2019 00:35	WG1349721
1,2,3-Trichlorobenzene	U		0.000745	0.00298	1	09/21/2019 00:35	WG1349721
1,2,4-Trichlorobenzene	U		0.00575	0.0149	1	09/21/2019 00:35	WG1349721
1,1,1-Trichloroethane	U		0.000328	0.00298	1	09/21/2019 00:35	WG1349721
1,1,2-Trichloroethane	U		0.00105	0.00298	1	09/21/2019 00:35	WG1349721
Trichloroethene	U		0.000477	0.00119	1	09/21/2019 00:35	WG1349721
Trichlorofluoromethane	U		0.000596	0.00298	1	09/21/2019 00:35	WG1349721
1,2,3-Trichloropropane	U		0.00608	0.0149	1	09/21/2019 00:35	WG1349721
1,2,4-Trimethylbenzene	U		0.00138	0.00596	1	09/21/2019 00:35	WG1349721
1,2,3-Trimethylbenzene	U		0.00137	0.00596	1	09/21/2019 00:35	WG1349721
1,3,5-Trimethylbenzene	U		0.00129	0.00596	1	09/21/2019 00:35	WG1349721
Vinyl acetate	U		0.00420	0.0149	1	09/21/2019 00:35	WG1349721
Vinyl chloride	U		0.000815	0.00298	1	09/21/2019 00:35	WG1349721
Xylenes, Total	U		0.00570	0.00775	1	09/21/2019 00:35	WG1349721
(S) Toluene-d8	*105*			*75.0-131*		*09/21/2019 00:35*	WG1349721
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/21/2019 00:35*	WG1349721
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*09/21/2019 00:35*	WG1349721

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.1		1	09/20/2019 18:00	WG1349349

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0176	U ~~BJ~~	0.0169	0.0308	1	09/21/2019 00:56	WG1349721
Acrylonitrile	U		0.00234	0.0154	1	09/21/2019 00:56	WG1349721
Benzene	U		0.000493	0.00123	1	09/21/2019 00:56	WG1349721
Bromobenzene	U		0.00129	0.0154	1	09/21/2019 00:56	WG1349721
Bromodichloromethane	U		0.000971	0.00308	1	09/21/2019 00:56	WG1349721
Bromochloromethane	U		0.00139	0.00616	1	09/21/2019 00:56	WG1349721
Bromoform	U		0.00737	0.0308	1	09/21/2019 00:56	WG1349721
Bromomethane	U		0.00456	0.0154	1	09/21/2019 00:56	WG1349721
n-Butylbenzene	U		0.00473	0.0154	1	09/21/2019 00:56	WG1349721
sec-Butylbenzene	U		0.00312	0.0154	1	09/21/2019 00:56	WG1349721
tert-Butylbenzene	U		0.00191	0.00616	1	09/21/2019 00:56	WG1349721
Carbon disulfide	U	UJ J4	0.00500	0.0154	1	09/21/2019 00:56	WG1349721
Carbon tetrachloride	U		0.00133	0.00616	1	09/21/2019 00:56	WG1349721
Chlorobenzene	U		0.000706	0.00308	1	09/21/2019 00:56	WG1349721
Chlorodibromomethane	U		0.000555	0.00308	1	09/21/2019 00:56	WG1349721
Chloroethane	U		0.00133	0.00616	1	09/21/2019 00:56	WG1349721
Chloroform	U		0.000512	0.00308	1	09/21/2019 00:56	WG1349721
Chloromethane	U		0.00171	0.0154	1	09/21/2019 00:56	WG1349721
2-Chlorotoluene	U		0.00113	0.00308	1	09/21/2019 00:56	WG1349721
4-Chlorotoluene	U		0.00139	0.00616	1	09/21/2019 00:56	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00629	0.0308	1	09/21/2019 00:56	WG1349721
1,2-Dibromoethane	U		0.000647	0.00308	1	09/21/2019 00:56	WG1349721
Dibromomethane	U		0.00123	0.00616	1	09/21/2019 00:56	WG1349721
1,2-Dichlorobenzene	U		0.00179	0.00616	1	09/21/2019 00:56	WG1349721
1,3-Dichlorobenzene	U		0.00210	0.00616	1	09/21/2019 00:56	WG1349721
1,4-Dichlorobenzene	U		0.00243	0.00616	1	09/21/2019 00:56	WG1349721
Dichlorodifluoromethane	U		0.00101	0.00308	1	09/21/2019 00:56	WG1349721
1,1-Dichloroethane	U		0.000709	0.00308	1	09/21/2019 00:56	WG1349721
1,2-Dichloroethane	U		0.000586	0.00308	1	09/21/2019 00:56	WG1349721
1,1-Dichloroethene	U		0.000616	0.00308	1	09/21/2019 00:56	WG1349721
cis-1,2-Dichloroethene	U		0.000851	0.00308	1	09/21/2019 00:56	WG1349721
trans-1,2-Dichloroethene	U		0.00176	0.00616	1	09/21/2019 00:56	WG1349721
1,2-Dichloropropane	U		0.00157	0.00616	1	09/21/2019 00:56	WG1349721
1,1-Dichloropropene	U		0.000863	0.00308	1	09/21/2019 00:56	WG1349721
1,3-Dichloropropane	U		0.00216	0.00616	1	09/21/2019 00:56	WG1349721
cis-1,3-Dichloropropene	U		0.000836	0.00308	1	09/21/2019 00:56	WG1349721
trans-1,3-Dichloropropene	U		0.00189	0.00616	1	09/21/2019 00:56	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00173	0.00616	1	09/21/2019 00:56	WG1349721
2,2-Dichloropropane	U		0.000978	0.00308	1	09/21/2019 00:56	WG1349721
Di-isopropyl ether	U		0.000431	0.00123	1	09/21/2019 00:56	WG1349721
Ethylbenzene	U		0.000653	0.00308	1	09/21/2019 00:56	WG1349721
Hexachloro-1,3-butadiene	U		0.0157	0.0308	1	09/21/2019 00:56	WG1349721
2-Hexanone	U		0.0123	0.0308	1	09/21/2019 00:56	WG1349721
n-Hexane	U		0.00131	0.00616	1	09/21/2019 00:56	WG1349721
Iodomethane	U		0.00746	0.0154	1	09/21/2019 00:56	WG1349721
Isopropylbenzene	U		0.00106	0.00308	1	09/21/2019 00:56	WG1349721
p-Isopropyltoluene	U		0.00287	0.00616	1	09/21/2019 00:56	WG1349721
2-Butanone (MEK)	U		0.0154	0.0308	1	09/21/2019 00:56	WG1349721
Methylene Chloride	U		0.00818	0.0308	1	09/21/2019 00:56	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0308	1	09/21/2019 00:56	WG1349721

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000364	0.00123	1	09/21/2019 00:56	WG1349721
Naphthalene	U		0.00385	0.0154	1	09/21/2019 00:56	WG1349721
n-Propylbenzene	U		0.00145	0.00616	1	09/21/2019 00:56	WG1349721
Styrene	U		0.00337	0.0154	1	09/21/2019 00:56	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000616	0.00308	1	09/21/2019 00:56	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000481	0.00308	1	09/21/2019 00:56	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000832	0.00308	1	09/21/2019 00:56	WG1349721
Tetrachloroethene	U		0.000863	0.00308	1	09/21/2019 00:56	WG1349721
Toluene	0.00912		0.00154	0.00616	1	09/21/2019 00:56	WG1349721
1,2,3-Trichlorobenzene	U		0.000770	0.00308	1	09/21/2019 00:56	WG1349721
1,2,4-Trichlorobenzene	U		0.00594	0.0154	1	09/21/2019 00:56	WG1349721
1,1,1-Trichloroethane	U		0.000339	0.00308	1	09/21/2019 00:56	WG1349721
1,1,2-Trichloroethane	U		0.00109	0.00308	1	09/21/2019 00:56	WG1349721
Trichloroethene	U		0.000493	0.00123	1	09/21/2019 00:56	WG1349721
Trichlorofluoromethane	U		0.000616	0.00308	1	09/21/2019 00:56	WG1349721
1,2,3-Trichloropropane	U		0.00629	0.0154	1	09/21/2019 00:56	WG1349721
1,2,4-Trimethylbenzene	U		0.00143	0.00616	1	09/21/2019 00:56	WG1349721
1,2,3-Trimethylbenzene	U		0.00142	0.00616	1	09/21/2019 00:56	WG1349721
1,3,5-Trimethylbenzene	U		0.00133	0.00616	1	09/21/2019 00:56	WG1349721
Vinyl acetate	U		0.00434	0.0154	1	09/21/2019 00:56	WG1349721
Vinyl chloride	U		0.000842	0.00308	1	09/21/2019 00:56	WG1349721
Xylenes, Total	U		0.00589	0.00801	1	09/21/2019 00:56	WG1349721
(S) Toluene-d8	*108*			*75.0-131*		*09/21/2019 00:56*	WG1349721
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/21/2019 00:56*	WG1349721
(S) 1,2-Dichloroethane-d4	*96.5*			*70.0-130*		*09/21/2019 00:56*	WG1349721

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.6		1	09/20/2019 18:00	WG1349349

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0158	0.0289	1	09/21/2019 01:16	WG1349721
Acrylonitrile	U		0.00219	0.0144	1	09/21/2019 01:16	WG1349721
Benzene	U		0.000462	0.00115	1	09/21/2019 01:16	WG1349721
Bromobenzene	U		0.00121	0.0144	1	09/21/2019 01:16	WG1349721
Bromodichloromethane	U		0.000910	0.00289	1	09/21/2019 01:16	WG1349721
Bromochloromethane	U		0.00130	0.00577	1	09/21/2019 01:16	WG1349721
Bromoform	U		0.00690	0.0289	1	09/21/2019 01:16	WG1349721
Bromomethane	U		0.00427	0.0144	1	09/21/2019 01:16	WG1349721
n-Butylbenzene	U		0.00443	0.0144	1	09/21/2019 01:16	WG1349721
sec-Butylbenzene	U		0.00292	0.0144	1	09/21/2019 01:16	WG1349721
tert-Butylbenzene	U		0.00179	0.00577	1	09/21/2019 01:16	WG1349721
Carbon disulfide	U UJ	J4	0.00469	0.0144	1	09/21/2019 01:16	WG1349721
Carbon tetrachloride	U		0.00125	0.00577	1	09/21/2019 01:16	WG1349721
Chlorobenzene	U		0.000661	0.00289	1	09/21/2019 01:16	WG1349721
Chlorodibromomethane	U		0.000519	0.00289	1	09/21/2019 01:16	WG1349721
Chloroethane	U		0.00125	0.00577	1	09/21/2019 01:16	WG1349721
Chloroform	U		0.000479	0.00289	1	09/21/2019 01:16	WG1349721
Chloromethane	U		0.00160	0.0144	1	09/21/2019 01:16	WG1349721
2-Chlorotoluene	U		0.00106	0.00289	1	09/21/2019 01:16	WG1349721
4-Chlorotoluene	U		0.00130	0.00577	1	09/21/2019 01:16	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00589	0.0289	1	09/21/2019 01:16	WG1349721
1,2-Dibromoethane	U		0.000606	0.00289	1	09/21/2019 01:16	WG1349721
Dibromomethane	U		0.00115	0.00577	1	09/21/2019 01:16	WG1349721
1,2-Dichlorobenzene	U		0.00167	0.00577	1	09/21/2019 01:16	WG1349721
1,3-Dichlorobenzene	U		0.00196	0.00577	1	09/21/2019 01:16	WG1349721
1,4-Dichlorobenzene	U		0.00227	0.00577	1	09/21/2019 01:16	WG1349721
Dichlorodifluoromethane	U		0.000944	0.00289	1	09/21/2019 01:16	WG1349721
1,1-Dichloroethane	U		0.000664	0.00289	1	09/21/2019 01:16	WG1349721
1,2-Dichloroethane	U		0.000548	0.00289	1	09/21/2019 01:16	WG1349721
1,1-Dichloroethene	U		0.000577	0.00289	1	09/21/2019 01:16	WG1349721
cis-1,2-Dichloroethene	U		0.000797	0.00289	1	09/21/2019 01:16	WG1349721
trans-1,2-Dichloroethene	U		0.00165	0.00577	1	09/21/2019 01:16	WG1349721
1,2-Dichloropropane	U		0.00147	0.00577	1	09/21/2019 01:16	WG1349721
1,1-Dichloropropene	U		0.000808	0.00289	1	09/21/2019 01:16	WG1349721
1,3-Dichloropropane	U		0.00202	0.00577	1	09/21/2019 01:16	WG1349721
cis-1,3-Dichloropropene	U		0.000783	0.00289	1	09/21/2019 01:16	WG1349721
trans-1,3-Dichloropropene	U		0.00177	0.00577	1	09/21/2019 01:16	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00162	0.00577	1	09/21/2019 01:16	WG1349721
2,2-Dichloropropane	U		0.000915	0.00289	1	09/21/2019 01:16	WG1349721
Di-isopropyl ether	U		0.000404	0.00115	1	09/21/2019 01:16	WG1349721
Ethylbenzene	U		0.000612	0.00289	1	09/21/2019 01:16	WG1349721
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1	09/21/2019 01:16	WG1349721
2-Hexanone	U		0.0115	0.0289	1	09/21/2019 01:16	WG1349721
n-Hexane	U		0.00122	0.00577	1	09/21/2019 01:16	WG1349721
Iodomethane	U		0.00698	0.0144	1	09/21/2019 01:16	WG1349721
Isopropylbenzene	U		0.000996	0.00289	1	09/21/2019 01:16	WG1349721
p-Isopropyltoluene	U		0.00269	0.00577	1	09/21/2019 01:16	WG1349721
2-Butanone (MEK)	U		0.0144	0.0289	1	09/21/2019 01:16	WG1349721
Methylene Chloride	U		0.00766	0.0289	1	09/21/2019 01:16	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0289	1	09/21/2019 01:16	WG1349721

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000341	0.00115	1	09/21/2019 01:16	WG1349721
Naphthalene	U		0.00360	0.0144	1	09/21/2019 01:16	WG1349721
n-Propylbenzene	U		0.00136	0.00577	1	09/21/2019 01:16	WG1349721
Styrene	U		0.00315	0.0144	1	09/21/2019 01:16	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000577	0.00289	1	09/21/2019 01:16	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000450	0.00289	1	09/21/2019 01:16	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000779	0.00289	1	09/21/2019 01:16	WG1349721
Tetrachloroethene	U		0.000808	0.00289	1	09/21/2019 01:16	WG1349721
Toluene	0.00740		0.00144	0.00577	1	09/21/2019 01:16	WG1349721
1,2,3-Trichlorobenzene	U		0.000721	0.00289	1	09/21/2019 01:16	WG1349721
1,2,4-Trichlorobenzene	U		0.00556	0.0144	1	09/21/2019 01:16	WG1349721
1,1,1-Trichloroethane	U		0.000317	0.00289	1	09/21/2019 01:16	WG1349721
1,1,2-Trichloroethane	U		0.00102	0.00289	1	09/21/2019 01:16	WG1349721
Trichloroethene	U		0.000462	0.00115	1	09/21/2019 01:16	WG1349721
Trichlorofluoromethane	U		0.000577	0.00289	1	09/21/2019 01:16	WG1349721
1,2,3-Trichloropropane	U		0.00589	0.0144	1	09/21/2019 01:16	WG1349721
1,2,4-Trimethylbenzene	U		0.00134	0.00577	1	09/21/2019 01:16	WG1349721
1,2,3-Trimethylbenzene	U		0.00133	0.00577	1	09/21/2019 01:16	WG1349721
1,3,5-Trimethylbenzene	U		0.00125	0.00577	1	09/21/2019 01:16	WG1349721
Vinyl acetate	U		0.00406	0.0144	1	09/21/2019 01:16	WG1349721
Vinyl chloride	U		0.000788	0.00289	1	09/21/2019 01:16	WG1349721
Xylenes, Total	U		0.00552	0.00750	1	09/21/2019 01:16	WG1349721
(S) Toluene-d8	*105*			*75.0-131*		*09/21/2019 01:16*	WG1349721
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*09/21/2019 01:16*	WG1349721
(S) 1,2-Dichloroethane-d4	*95.7*			*70.0-130*		*09/21/2019 01:16*	WG1349721

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.5		1	09/20/2019 18:00	WG1349349

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0199 U	~~B J~~	0.0160	0.0292	1	09/21/2019 01:37	WG1349721
Acrylonitrile	U		0.00222	0.0146	1	09/21/2019 01:37	WG1349721
Benzene	0.00207		0.000468	0.00117	1	09/21/2019 01:37	WG1349721
Bromobenzene	U		0.00123	0.0146	1	09/21/2019 01:37	WG1349721
Bromodichloromethane	U		0.000922	0.00292	1	09/21/2019 01:37	WG1349721
Bromochloromethane	U		0.00132	0.00585	1	09/21/2019 01:37	WG1349721
Bromoform	U		0.00700	0.0292	1	09/21/2019 01:37	WG1349721
Bromomethane	U		0.00433	0.0146	1	09/21/2019 01:37	WG1349721
n-Butylbenzene	U		0.00449	0.0146	1	09/21/2019 01:37	WG1349721
sec-Butylbenzene	U		0.00296	0.0146	1	09/21/2019 01:37	WG1349721
tert-Butylbenzene	U		0.00181	0.00585	1	09/21/2019 01:37	WG1349721
Carbon disulfide	U UJ	J4	0.00475	0.0146	1	09/21/2019 01:37	WG1349721
Carbon tetrachloride	U		0.00126	0.00585	1	09/21/2019 01:37	WG1349721
Chlorobenzene	U		0.000670	0.00292	1	09/21/2019 01:37	WG1349721
Chlorodibromomethane	U		0.000526	0.00292	1	09/21/2019 01:37	WG1349721
Chloroethane	U		0.00126	0.00585	1	09/21/2019 01:37	WG1349721
Chloroform	U		0.000485	0.00292	1	09/21/2019 01:37	WG1349721
Chloromethane	U		0.00163	0.0146	1	09/21/2019 01:37	WG1349721
2-Chlorotoluene	U		0.00108	0.00292	1	09/21/2019 01:37	WG1349721
4-Chlorotoluene	U		0.00132	0.00585	1	09/21/2019 01:37	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00597	0.0292	1	09/21/2019 01:37	WG1349721
1,2-Dibromoethane	U		0.000614	0.00292	1	09/21/2019 01:37	WG1349721
Dibromomethane	U		0.00117	0.00585	1	09/21/2019 01:37	WG1349721
1,2-Dichlorobenzene	U		0.00170	0.00585	1	09/21/2019 01:37	WG1349721
1,3-Dichlorobenzene	U		0.00199	0.00585	1	09/21/2019 01:37	WG1349721
1,4-Dichlorobenzene	U		0.00230	0.00585	1	09/21/2019 01:37	WG1349721
Dichlorodifluoromethane	U		0.000957	0.00292	1	09/21/2019 01:37	WG1349721
1,1-Dichloroethane	U		0.000673	0.00292	1	09/21/2019 01:37	WG1349721
1,2-Dichloroethane	U		0.000556	0.00292	1	09/21/2019 01:37	WG1349721
1,1-Dichloroethene	U		0.000585	0.00292	1	09/21/2019 01:37	WG1349721
cis-1,2-Dichloroethene	0.00179 J	J	0.000807	0.00292	1	09/21/2019 01:37	WG1349721
trans-1,2-Dichloroethene	U		0.00167	0.00585	1	09/21/2019 01:37	WG1349721
1,2-Dichloropropane	U		0.00149	0.00585	1	09/21/2019 01:37	WG1349721
1,1-Dichloropropene	U		0.000819	0.00292	1	09/21/2019 01:37	WG1349721
1,3-Dichloropropane	U		0.00205	0.00585	1	09/21/2019 01:37	WG1349721
cis-1,3-Dichloropropene	U		0.000793	0.00292	1	09/21/2019 01:37	WG1349721
trans-1,3-Dichloropropene	U		0.00179	0.00585	1	09/21/2019 01:37	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00164	0.00585	1	09/21/2019 01:37	WG1349721
2,2-Dichloropropane	U		0.000928	0.00292	1	09/21/2019 01:37	WG1349721
Di-isopropyl ether	U		0.000409	0.00117	1	09/21/2019 01:37	WG1349721
Ethylbenzene	U		0.000620	0.00292	1	09/21/2019 01:37	WG1349721
Hexachloro-1,3-butadiene	U		0.0149	0.0292	1	09/21/2019 01:37	WG1349721
2-Hexanone	U		0.0117	0.0292	1	09/21/2019 01:37	WG1349721
n-Hexane	U		0.00124	0.00585	1	09/21/2019 01:37	WG1349721
Iodomethane	U		0.00708	0.0146	1	09/21/2019 01:37	WG1349721
Isopropylbenzene	U		0.00101	0.00292	1	09/21/2019 01:37	WG1349721
p-Isopropyltoluene	U		0.00273	0.00585	1	09/21/2019 01:37	WG1349721
2-Butanone (MEK)	U		0.0146	0.0292	1	09/21/2019 01:37	WG1349721
Methylene Chloride	U		0.00777	0.0292	1	09/21/2019 01:37	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	09/21/2019 01:37	WG1349721

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	09/21/2019 01:37	WG1349721
Naphthalene	U		0.00365	0.0146	1	09/21/2019 01:37	WG1349721
n-Propylbenzene	U		0.00138	0.00585	1	09/21/2019 01:37	WG1349721
Styrene	U		0.00319	0.0146	1	09/21/2019 01:37	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000585	0.00292	1	09/21/2019 01:37	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	09/21/2019 01:37	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000790	0.00292	1	09/21/2019 01:37	WG1349721
Tetrachloroethene	U		0.000819	0.00292	1	09/21/2019 01:37	WG1349721
Toluene	0.00462 J	J	0.00146	0.00585	1	09/21/2019 01:37	WG1349721
1,2,3-Trichlorobenzene	U		0.000731	0.00292	1	09/21/2019 01:37	WG1349721
1,2,4-Trichlorobenzene	U		0.00564	0.0146	1	09/21/2019 01:37	WG1349721
1,1,1-Trichloroethane	U		0.000322	0.00292	1	09/21/2019 01:37	WG1349721
1,1,2-Trichloroethane	U		0.00103	0.00292	1	09/21/2019 01:37	WG1349721
Trichloroethene	U		0.000468	0.00117	1	09/21/2019 01:37	WG1349721
Trichlorofluoromethane	U		0.000585	0.00292	1	09/21/2019 01:37	WG1349721
1,2,3-Trichloropropane	U		0.00597	0.0146	1	09/21/2019 01:37	WG1349721
1,2,4-Trimethylbenzene	U		0.00136	0.00585	1	09/21/2019 01:37	WG1349721
1,2,3-Trimethylbenzene	U		0.00135	0.00585	1	09/21/2019 01:37	WG1349721
1,3,5-Trimethylbenzene	U		0.00126	0.00585	1	09/21/2019 01:37	WG1349721
Vinyl acetate	U		0.00412	0.0146	1	09/21/2019 01:37	WG1349721
Vinyl chloride	U		0.000799	0.00292	1	09/21/2019 01:37	WG1349721
Xylenes, Total	U		0.00559	0.00760	1	09/21/2019 01:37	WG1349721
(S) Toluene-d8	*105*			*75.0-131*		*09/21/2019 01:37*	WG1349721
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*09/21/2019 01:37*	WG1349721
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*09/21/2019 01:37*	WG1349721

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	09/20/2019 18:00	WG1349349

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0349	~~B~~	0.0160	0.0292	1	09/21/2019 01:57	WG1349721
Acrylonitrile	U		0.00222	0.0146	1	09/21/2019 01:57	WG1349721
Benzene	0.0241		0.000467	0.00117	1	09/21/2019 01:57	WG1349721
Bromobenzene	U		0.00123	0.0146	1	09/21/2019 01:57	WG1349721
Bromodichloromethane	U		0.000921	0.00292	1	09/21/2019 01:57	WG1349721
Bromochloromethane	U		0.00132	0.00584	1	09/21/2019 01:57	WG1349721
Bromoform	U		0.00699	0.0292	1	09/21/2019 01:57	WG1349721
Bromomethane	U		0.00432	0.0146	1	09/21/2019 01:57	WG1349721
n-Butylbenzene	U		0.00449	0.0146	1	09/21/2019 01:57	WG1349721
sec-Butylbenzene	U		0.00296	0.0146	1	09/21/2019 01:57	WG1349721
tert-Butylbenzene	U		0.00181	0.00584	1	09/21/2019 01:57	WG1349721
Carbon disulfide	U UJ	J4	0.00474	0.0146	1	09/21/2019 01:57	WG1349721
Carbon tetrachloride	U		0.00126	0.00584	1	09/21/2019 01:57	WG1349721
Chlorobenzene	U		0.000670	0.00292	1	09/21/2019 01:57	WG1349721
Chlorodibromomethane	U		0.000526	0.00292	1	09/21/2019 01:57	WG1349721
Chloroethane	U		0.00126	0.00584	1	09/21/2019 01:57	WG1349721
Chloroform	U		0.000485	0.00292	1	09/21/2019 01:57	WG1349721
Chloromethane	U		0.00162	0.0146	1	09/21/2019 01:57	WG1349721
2-Chlorotoluene	U		0.00108	0.00292	1	09/21/2019 01:57	WG1349721
4-Chlorotoluene	U		0.00132	0.00584	1	09/21/2019 01:57	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00596	0.0292	1	09/21/2019 01:57	WG1349721
1,2-Dibromoethane	U		0.000613	0.00292	1	09/21/2019 01:57	WG1349721
Dibromomethane	U		0.00117	0.00584	1	09/21/2019 01:57	WG1349721
1,2-Dichlorobenzene	U		0.00169	0.00584	1	09/21/2019 01:57	WG1349721
1,3-Dichlorobenzene	U		0.00199	0.00584	1	09/21/2019 01:57	WG1349721
1,4-Dichlorobenzene	U		0.00230	0.00584	1	09/21/2019 01:57	WG1349721
Dichlorodifluoromethane	U		0.000956	0.00292	1	09/21/2019 01:57	WG1349721
1,1-Dichloroethane	U		0.000672	0.00292	1	09/21/2019 01:57	WG1349721
1,2-Dichloroethane	U		0.000555	0.00292	1	09/21/2019 01:57	WG1349721
1,1-Dichloroethene	U		0.000584	0.00292	1	09/21/2019 01:57	WG1349721
cis-1,2-Dichloroethene	0.0140		0.000806	0.00292	1	09/21/2019 01:57	WG1349721
trans-1,2-Dichloroethene	U		0.00167	0.00584	1	09/21/2019 01:57	WG1349721
1,2-Dichloropropane	U		0.00148	0.00584	1	09/21/2019 01:57	WG1349721
1,1-Dichloropropene	U		0.000818	0.00292	1	09/21/2019 01:57	WG1349721
1,3-Dichloropropane	U		0.00204	0.00584	1	09/21/2019 01:57	WG1349721
cis-1,3-Dichloropropene	U		0.000792	0.00292	1	09/21/2019 01:57	WG1349721
trans-1,3-Dichloropropene	U		0.00179	0.00584	1	09/21/2019 01:57	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00164	0.00584	1	09/21/2019 01:57	WG1349721
2,2-Dichloropropane	U		0.000927	0.00292	1	09/21/2019 01:57	WG1349721
Di-isopropyl ether	U		0.000409	0.00117	1	09/21/2019 01:57	WG1349721
Ethylbenzene	U		0.000619	0.00292	1	09/21/2019 01:57	WG1349721
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	09/21/2019 01:57	WG1349721
2-Hexanone	U		0.0117	0.0292	1	09/21/2019 01:57	WG1349721
n-Hexane	U		0.00124	0.00584	1	09/21/2019 01:57	WG1349721
Iodomethane	U		0.00707	0.0146	1	09/21/2019 01:57	WG1349721
Isopropylbenzene	U		0.00101	0.00292	1	09/21/2019 01:57	WG1349721
p-Isopropyltoluene	U		0.00272	0.00584	1	09/21/2019 01:57	WG1349721
2-Butanone (MEK)	U		0.0146	0.0292	1	09/21/2019 01:57	WG1349721
Methylene Chloride	U		0.00776	0.0292	1	09/21/2019 01:57	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	09/21/2019 01:57	WG1349721

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	09/21/2019 01:57	WG1349721
Naphthalene	U		0.00365	0.0146	1	09/21/2019 01:57	WG1349721
n-Propylbenzene	U		0.00138	0.00584	1	09/21/2019 01:57	WG1349721
Styrene	U		0.00319	0.0146	1	09/21/2019 01:57	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000584	0.00292	1	09/21/2019 01:57	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	09/21/2019 01:57	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000789	0.00292	1	09/21/2019 01:57	WG1349721
Tetrachloroethene	U		0.000818	0.00292	1	09/21/2019 01:57	WG1349721
Toluene	0.00466 J	J	0.00146	0.00584	1	09/21/2019 01:57	WG1349721
1,2,3-Trichlorobenzene	U		0.000730	0.00292	1	09/21/2019 01:57	WG1349721
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1	09/21/2019 01:57	WG1349721
1,1,1-Trichloroethane	U		0.000321	0.00292	1	09/21/2019 01:57	WG1349721
1,1,2-Trichloroethane	U		0.00103	0.00292	1	09/21/2019 01:57	WG1349721
Trichloroethene	U		0.000467	0.00117	1	09/21/2019 01:57	WG1349721
Trichlorofluoromethane	U		0.000584	0.00292	1	09/21/2019 01:57	WG1349721
1,2,3-Trichloropropane	U		0.00596	0.0146	1	09/21/2019 01:57	WG1349721
1,2,4-Trimethylbenzene	U		0.00136	0.00584	1	09/21/2019 01:57	WG1349721
1,2,3-Trimethylbenzene	U		0.00134	0.00584	1	09/21/2019 01:57	WG1349721
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1	09/21/2019 01:57	WG1349721
Vinyl acetate	U		0.00411	0.0146	1	09/21/2019 01:57	WG1349721
Vinyl chloride	U		0.000798	0.00292	1	09/21/2019 01:57	WG1349721
Xylenes, Total	U		0.00559	0.00760	1	09/21/2019 01:57	WG1349721
(S) Toluene-d8	*106*			*75.0-131*		*09/21/2019 01:57*	WG1349721
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/21/2019 01:57*	WG1349721
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/21/2019 01:57*	WG1349721

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.8		1	09/20/2019 17:49	WG1349352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0228 U	~~B J~~	0.0160	0.0291	1	09/21/2019 02:18	WG1349721
Acrylonitrile	U		0.00221	0.0146	1	09/21/2019 02:18	WG1349721
Benzene	0.0340		0.000466	0.00117	1	09/21/2019 02:18	WG1349721
Bromobenzene	U		0.00122	0.0146	1	09/21/2019 02:18	WG1349721
Bromodichloromethane	U		0.000918	0.00291	1	09/21/2019 02:18	WG1349721
Bromochloromethane	U		0.00132	0.00583	1	09/21/2019 02:18	WG1349721
Bromoform	U		0.00697	0.0291	1	09/21/2019 02:18	WG1349721
Bromomethane	U		0.00431	0.0146	1	09/21/2019 02:18	WG1349721
n-Butylbenzene	U		0.00448	0.0146	1	09/21/2019 02:18	WG1349721
sec-Butylbenzene	U		0.00295	0.0146	1	09/21/2019 02:18	WG1349721
tert-Butylbenzene	U		0.00181	0.00583	1	09/21/2019 02:18	WG1349721
Carbon disulfide	U UJ	J4	0.00473	0.0146	1	09/21/2019 02:18	WG1349721
Carbon tetrachloride	U		0.00126	0.00583	1	09/21/2019 02:18	WG1349721
Chlorobenzene	U		0.000668	0.00291	1	09/21/2019 02:18	WG1349721
Chlorodibromomethane	U		0.000524	0.00291	1	09/21/2019 02:18	WG1349721
Chloroethane	U		0.00126	0.00583	1	09/21/2019 02:18	WG1349721
Chloroform	U		0.000484	0.00291	1	09/21/2019 02:18	WG1349721
Chloromethane	U		0.00162	0.0146	1	09/21/2019 02:18	WG1349721
2-Chlorotoluene	U		0.00107	0.00291	1	09/21/2019 02:18	WG1349721
4-Chlorotoluene	U		0.00132	0.00583	1	09/21/2019 02:18	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00594	0.0291	1	09/21/2019 02:18	WG1349721
1,2-Dibromoethane	U		0.000612	0.00291	1	09/21/2019 02:18	WG1349721
Dibromomethane	U		0.00117	0.00583	1	09/21/2019 02:18	WG1349721
1,2-Dichlorobenzene	U		0.00169	0.00583	1	09/21/2019 02:18	WG1349721
1,3-Dichlorobenzene	U		0.00198	0.00583	1	09/21/2019 02:18	WG1349721
1,4-Dichlorobenzene	U		0.00230	0.00583	1	09/21/2019 02:18	WG1349721
Dichlorodifluoromethane	U		0.000953	0.00291	1	09/21/2019 02:18	WG1349721
1,1-Dichloroethane	U		0.000670	0.00291	1	09/21/2019 02:18	WG1349721
1,2-Dichloroethane	U		0.000554	0.00291	1	09/21/2019 02:18	WG1349721
1,1-Dichloroethene	U		0.000583	0.00291	1	09/21/2019 02:18	WG1349721
cis-1,2-Dichloroethene	0.0403		0.000804	0.00291	1	09/21/2019 02:18	WG1349721
trans-1,2-Dichloroethene	U		0.00167	0.00583	1	09/21/2019 02:18	WG1349721
1,2-Dichloropropane	U		0.00148	0.00583	1	09/21/2019 02:18	WG1349721
1,1-Dichloropropene	U		0.000816	0.00291	1	09/21/2019 02:18	WG1349721
1,3-Dichloropropane	U		0.00204	0.00583	1	09/21/2019 02:18	WG1349721
cis-1,3-Dichloropropene	U		0.000790	0.00291	1	09/21/2019 02:18	WG1349721
trans-1,3-Dichloropropene	U		0.00178	0.00583	1	09/21/2019 02:18	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00163	0.00583	1	09/21/2019 02:18	WG1349721
2,2-Dichloropropane	U		0.000924	0.00291	1	09/21/2019 02:18	WG1349721
Di-isopropyl ether	U		0.000408	0.00117	1	09/21/2019 02:18	WG1349721
Ethylbenzene	U		0.000618	0.00291	1	09/21/2019 02:18	WG1349721
Hexachloro-1,3-butadiene	U		0.0148	0.0291	1	09/21/2019 02:18	WG1349721
2-Hexanone	U		0.0117	0.0291	1	09/21/2019 02:18	WG1349721
n-Hexane	U		0.00124	0.00583	1	09/21/2019 02:18	WG1349721
Iodomethane	U		0.00705	0.0146	1	09/21/2019 02:18	WG1349721
Isopropylbenzene	U		0.00101	0.00291	1	09/21/2019 02:18	WG1349721
p-Isopropyltoluene	U		0.00272	0.00583	1	09/21/2019 02:18	WG1349721
2-Butanone (MEK)	U		0.0146	0.0291	1	09/21/2019 02:18	WG1349721
Methylene Chloride	U		0.00774	0.0291	1	09/21/2019 02:18	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0291	1	09/21/2019 02:18	WG1349721

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	09/21/2019 02:18	WG1349721
Naphthalene	U		0.00364	0.0146	1	09/21/2019 02:18	WG1349721
n-Propylbenzene	U		0.00138	0.00583	1	09/21/2019 02:18	WG1349721
Styrene	U		0.00318	0.0146	1	09/21/2019 02:18	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000583	0.00291	1	09/21/2019 02:18	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000455	0.00291	1	09/21/2019 02:18	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000787	0.00291	1	09/21/2019 02:18	WG1349721
Tetrachloroethene	U		0.000816	0.00291	1	09/21/2019 02:18	WG1349721
Toluene	0.00431 J	J	0.00146	0.00583	1	09/21/2019 02:18	WG1349721
1,2,3-Trichlorobenzene	U		0.000728	0.00291	1	09/21/2019 02:18	WG1349721
1,2,4-Trichlorobenzene	U		0.00562	0.0146	1	09/21/2019 02:18	WG1349721
1,1,1-Trichloroethane	U		0.000320	0.00291	1	09/21/2019 02:18	WG1349721
1,1,2-Trichloroethane	U		0.00103	0.00291	1	09/21/2019 02:18	WG1349721
Trichloroethene	U		0.000466	0.00117	1	09/21/2019 02:18	WG1349721
Trichlorofluoromethane	U		0.000583	0.00291	1	09/21/2019 02:18	WG1349721
1,2,3-Trichloropropane	U		0.00594	0.0146	1	09/21/2019 02:18	WG1349721
1,2,4-Trimethylbenzene	U		0.00135	0.00583	1	09/21/2019 02:18	WG1349721
1,2,3-Trimethylbenzene	U		0.00134	0.00583	1	09/21/2019 02:18	WG1349721
1,3,5-Trimethylbenzene	U		0.00126	0.00583	1	09/21/2019 02:18	WG1349721
Vinyl acetate	U		0.00410	0.0146	1	09/21/2019 02:18	WG1349721
Vinyl chloride	0.0167		0.000796	0.00291	1	09/21/2019 02:18	WG1349721
Xylenes, Total	U		0.00557	0.00758	1	09/21/2019 02:18	WG1349721
(S) Toluene-d8	*103*			*75.0-131*		*09/21/2019 02:18*	WG1349721
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/21/2019 02:18*	WG1349721
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*09/21/2019 02:18*	WG1349721

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.3		1	09/20/2019 17:49	WG1349352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0246	U ~~B J~~	0.0157	0.0286	1	09/21/2019 02:38	WG1349721
Acrylonitrile	U		0.00218	0.0143	1	09/21/2019 02:38	WG1349721
Benzene	0.0265		0.000458	0.00115	1	09/21/2019 02:38	WG1349721
Bromobenzene	U		0.00120	0.0143	1	09/21/2019 02:38	WG1349721
Bromodichloromethane	U		0.000903	0.00286	1	09/21/2019 02:38	WG1349721
Bromochloromethane	U		0.00129	0.00573	1	09/21/2019 02:38	WG1349721
Bromoform	U		0.00685	0.0286	1	09/21/2019 02:38	WG1349721
Bromomethane	U		0.00424	0.0143	1	09/21/2019 02:38	WG1349721
n-Butylbenzene	U		0.00440	0.0143	1	09/21/2019 02:38	WG1349721
sec-Butylbenzene	U		0.00290	0.0143	1	09/21/2019 02:38	WG1349721
tert-Butylbenzene	U		0.00178	0.00573	1	09/21/2019 02:38	WG1349721
Carbon disulfide	U	UJ J4	0.00465	0.0143	1	09/21/2019 02:38	WG1349721
Carbon tetrachloride	U		0.00124	0.00573	1	09/21/2019 02:38	WG1349721
Chlorobenzene	U		0.000656	0.00286	1	09/21/2019 02:38	WG1349721
Chlorodibromomethane	U		0.000516	0.00286	1	09/21/2019 02:38	WG1349721
Chloroethane	U		0.00124	0.00573	1	09/21/2019 02:38	WG1349721
Chloroform	U		0.000475	0.00286	1	09/21/2019 02:38	WG1349721
Chloromethane	U		0.00159	0.0143	1	09/21/2019 02:38	WG1349721
2-Chlorotoluene	U		0.00105	0.00286	1	09/21/2019 02:38	WG1349721
4-Chlorotoluene	U		0.00129	0.00573	1	09/21/2019 02:38	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00584	0.0286	1	09/21/2019 02:38	WG1349721
1,2-Dibromoethane	U		0.000601	0.00286	1	09/21/2019 02:38	WG1349721
Dibromomethane	U		0.00115	0.00573	1	09/21/2019 02:38	WG1349721
1,2-Dichlorobenzene	U		0.00166	0.00573	1	09/21/2019 02:38	WG1349721
1,3-Dichlorobenzene	U		0.00195	0.00573	1	09/21/2019 02:38	WG1349721
1,4-Dichlorobenzene	U		0.00226	0.00573	1	09/21/2019 02:38	WG1349721
Dichlorodifluoromethane	U		0.000937	0.00286	1	09/21/2019 02:38	WG1349721
1,1-Dichloroethane	U		0.000659	0.00286	1	09/21/2019 02:38	WG1349721
1,2-Dichloroethane	U		0.000544	0.00286	1	09/21/2019 02:38	WG1349721
1,1-Dichloroethene	U		0.000573	0.00286	1	09/21/2019 02:38	WG1349721
cis-1,2-Dichloroethene	0.0637		0.000791	0.00286	1	09/21/2019 02:38	WG1349721
trans-1,2-Dichloroethene	U		0.00164	0.00573	1	09/21/2019 02:38	WG1349721
1,2-Dichloropropane	U		0.00146	0.00573	1	09/21/2019 02:38	WG1349721
1,1-Dichloropropene	U		0.000802	0.00286	1	09/21/2019 02:38	WG1349721
1,3-Dichloropropane	U		0.00200	0.00573	1	09/21/2019 02:38	WG1349721
cis-1,3-Dichloropropene	U		0.000777	0.00286	1	09/21/2019 02:38	WG1349721
trans-1,3-Dichloropropene	U		0.00175	0.00573	1	09/21/2019 02:38	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00160	0.00573	1	09/21/2019 02:38	WG1349721
2,2-Dichloropropane	U		0.000909	0.00286	1	09/21/2019 02:38	WG1349721
Di-isopropyl ether	U		0.000401	0.00115	1	09/21/2019 02:38	WG1349721
Ethylbenzene	U		0.000607	0.00286	1	09/21/2019 02:38	WG1349721
Hexachloro-1,3-butadiene	U		0.0146	0.0286	1	09/21/2019 02:38	WG1349721
2-Hexanone	U		0.0115	0.0286	1	09/21/2019 02:38	WG1349721
n-Hexane	U		0.00121	0.00573	1	09/21/2019 02:38	WG1349721
Iodomethane	U		0.00693	0.0143	1	09/21/2019 02:38	WG1349721
Isopropylbenzene	U		0.000989	0.00286	1	09/21/2019 02:38	WG1349721
p-Isopropyltoluene	U		0.00267	0.00573	1	09/21/2019 02:38	WG1349721
2-Butanone (MEK)	U		0.0143	0.0286	1	09/21/2019 02:38	WG1349721
Methylene Chloride	U		0.00761	0.0286	1	09/21/2019 02:38	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0286	1	09/21/2019 02:38	WG1349721

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000338	0.00115	1	09/21/2019 02:38	WG1349721
Naphthalene	U		0.00357	0.0143	1	09/21/2019 02:38	WG1349721
n-Propylbenzene	U		0.00135	0.00573	1	09/21/2019 02:38	WG1349721
Styrene	U		0.00313	0.0143	1	09/21/2019 02:38	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000573	0.00286	1	09/21/2019 02:38	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000447	0.00286	1	09/21/2019 02:38	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000773	0.00286	1	09/21/2019 02:38	WG1349721
Tetrachloroethene	U		0.000802	0.00286	1	09/21/2019 02:38	WG1349721
Toluene	0.0104		0.00143	0.00573	1	09/21/2019 02:38	WG1349721
1,2,3-Trichlorobenzene	U		0.000716	0.00286	1	09/21/2019 02:38	WG1349721
1,2,4-Trichlorobenzene	U		0.00552	0.0143	1	09/21/2019 02:38	WG1349721
1,1,1-Trichloroethane	U		0.000315	0.00286	1	09/21/2019 02:38	WG1349721
1,1,2-Trichloroethane	U		0.00101	0.00286	1	09/21/2019 02:38	WG1349721
Trichloroethene	U		0.000458	0.00115	1	09/21/2019 02:38	WG1349721
Trichlorofluoromethane	U		0.000573	0.00286	1	09/21/2019 02:38	WG1349721
1,2,3-Trichloropropane	U		0.00584	0.0143	1	09/21/2019 02:38	WG1349721
1,2,4-Trimethylbenzene	U		0.00133	0.00573	1	09/21/2019 02:38	WG1349721
1,2,3-Trimethylbenzene	U		0.00132	0.00573	1	09/21/2019 02:38	WG1349721
1,3,5-Trimethylbenzene	U		0.00124	0.00573	1	09/21/2019 02:38	WG1349721
Vinyl acetate	U		0.00403	0.0143	1	09/21/2019 02:38	WG1349721
Vinyl chloride	U		0.000783	0.00286	1	09/21/2019 02:38	WG1349721
Xylenes, Total	U		0.00548	0.00745	1	09/21/2019 02:38	WG1349721
(S) Toluene-d8	*105*			*75.0-131*		*09/21/2019 02:38*	WG1349721
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/21/2019 02:38*	WG1349721
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/21/2019 02:38*	WG1349721

JC 10/24/19

MW-329-85

Collected date/time: 09/12/19 13:50

SAMPLE RESULTS - 16

L1139523

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.5		1	09/20/2019 17:49	WG1349352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0261	U ~~BJ~~	0.0160	0.0292	1	09/21/2019 02:59	WG1349721
Acrylonitrile	U		0.00222	0.0146	1	09/21/2019 02:59	WG1349721
Benzene	0.0597		0.000468	0.00117	1	09/21/2019 02:59	WG1349721
Bromobenzene	U		0.00123	0.0146	1	09/21/2019 02:59	WG1349721
Bromodichloromethane	U		0.000921	0.00292	1	09/21/2019 02:59	WG1349721
Bromochloromethane	U		0.00132	0.00585	1	09/21/2019 02:59	WG1349721
Bromoform	U		0.00699	0.0292	1	09/21/2019 02:59	WG1349721
Bromomethane	U		0.00433	0.0146	1	09/21/2019 02:59	WG1349721
n-Butylbenzene	U		0.00449	0.0146	1	09/21/2019 02:59	WG1349721
sec-Butylbenzene	U		0.00296	0.0146	1	09/21/2019 02:59	WG1349721
tert-Butylbenzene	U		0.00181	0.00585	1	09/21/2019 02:59	WG1349721
Carbon disulfide	U	UJ J4	0.00475	0.0146	1	09/21/2019 02:59	WG1349721
Carbon tetrachloride	U		0.00126	0.00585	1	09/21/2019 02:59	WG1349721
Chlorobenzene	U		0.000670	0.00292	1	09/21/2019 02:59	WG1349721
Chlorodibromomethane	U		0.000526	0.00292	1	09/21/2019 02:59	WG1349721
Chloroethane	U		0.00126	0.00585	1	09/21/2019 02:59	WG1349721
Chloroform	U		0.000485	0.00292	1	09/21/2019 02:59	WG1349721
Chloromethane	U		0.00163	0.0146	1	09/21/2019 02:59	WG1349721
2-Chlorotoluene	U		0.00108	0.00292	1	09/21/2019 02:59	WG1349721
4-Chlorotoluene	U		0.00132	0.00585	1	09/21/2019 02:59	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00596	0.0292	1	09/21/2019 02:59	WG1349721
1,2-Dibromoethane	U		0.000614	0.00292	1	09/21/2019 02:59	WG1349721
Dibromomethane	U		0.00117	0.00585	1	09/21/2019 02:59	WG1349721
1,2-Dichlorobenzene	U		0.00170	0.00585	1	09/21/2019 02:59	WG1349721
1,3-Dichlorobenzene	U		0.00199	0.00585	1	09/21/2019 02:59	WG1349721
1,4-Dichlorobenzene	U		0.00230	0.00585	1	09/21/2019 02:59	WG1349721
Dichlorodifluoromethane	U		0.000956	0.00292	1	09/21/2019 02:59	WG1349721
1,1-Dichloroethane	U		0.000672	0.00292	1	09/21/2019 02:59	WG1349721
1,2-Dichloroethane	U		0.000555	0.00292	1	09/21/2019 02:59	WG1349721
1,1-Dichloroethene	U		0.000585	0.00292	1	09/21/2019 02:59	WG1349721
cis-1,2-Dichloroethene	0.261		0.000807	0.00292	1	09/21/2019 02:59	WG1349721
trans-1,2-Dichloroethene	U		0.00167	0.00585	1	09/21/2019 02:59	WG1349721
1,2-Dichloropropane	U		0.00148	0.00585	1	09/21/2019 02:59	WG1349721
1,1-Dichloropropene	U		0.000818	0.00292	1	09/21/2019 02:59	WG1349721
1,3-Dichloropropane	U		0.00205	0.00585	1	09/21/2019 02:59	WG1349721
cis-1,3-Dichloropropene	U		0.000793	0.00292	1	09/21/2019 02:59	WG1349721
trans-1,3-Dichloropropene	U		0.00179	0.00585	1	09/21/2019 02:59	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00164	0.00585	1	09/21/2019 02:59	WG1349721
2,2-Dichloropropane	U		0.000927	0.00292	1	09/21/2019 02:59	WG1349721
Di-isopropyl ether	U		0.000409	0.00117	1	09/21/2019 02:59	WG1349721
Ethylbenzene	U		0.000620	0.00292	1	09/21/2019 02:59	WG1349721
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	09/21/2019 02:59	WG1349721
2-Hexanone	U		0.0117	0.0292	1	09/21/2019 02:59	WG1349721
n-Hexane	U		0.00124	0.00585	1	09/21/2019 02:59	WG1349721
Iodomethane	U		0.00707	0.0146	1	09/21/2019 02:59	WG1349721
Isopropylbenzene	U		0.00101	0.00292	1	09/21/2019 02:59	WG1349721
p-Isopropyltoluene	U		0.00272	0.00585	1	09/21/2019 02:59	WG1349721
2-Butanone (MEK)	U		0.0146	0.0292	1	09/21/2019 02:59	WG1349721
Methylene Chloride	U		0.00776	0.0292	1	09/21/2019 02:59	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	09/21/2019 02:59	WG1349721

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000345	0.00117	1	09/21/2019 02:59	WG1349721
Naphthalene	U		0.00365	0.0146	1	09/21/2019 02:59	WG1349721
n-Propylbenzene	U		0.00138	0.00585	1	09/21/2019 02:59	WG1349721
Styrene	U		0.00319	0.0146	1	09/21/2019 02:59	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000585	0.00292	1	09/21/2019 02:59	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	09/21/2019 02:59	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000789	0.00292	1	09/21/2019 02:59	WG1349721
Tetrachloroethene	U		0.000818	0.00292	1	09/21/2019 02:59	WG1349721
Toluene	0.00654		0.00146	0.00585	1	09/21/2019 02:59	WG1349721
1,2,3-Trichlorobenzene	U		0.000731	0.00292	1	09/21/2019 02:59	WG1349721
1,2,4-Trichlorobenzene	U		0.00564	0.0146	1	09/21/2019 02:59	WG1349721
1,1,1-Trichloroethane	U		0.000322	0.00292	1	09/21/2019 02:59	WG1349721
1,1,2-Trichloroethane	U		0.00103	0.00292	1	09/21/2019 02:59	WG1349721
Trichloroethene	U		0.000468	0.00117	1	09/21/2019 02:59	WG1349721
Trichlorofluoromethane	U		0.000585	0.00292	1	09/21/2019 02:59	WG1349721
1,2,3-Trichloropropane	U		0.00596	0.0146	1	09/21/2019 02:59	WG1349721
1,2,4-Trimethylbenzene	U		0.00136	0.00585	1	09/21/2019 02:59	WG1349721
1,2,3-Trimethylbenzene	U		0.00134	0.00585	1	09/21/2019 02:59	WG1349721
1,3,5-Trimethylbenzene	U		0.00126	0.00585	1	09/21/2019 02:59	WG1349721
Vinyl acetate	U		0.00412	0.0146	1	09/21/2019 02:59	WG1349721
Vinyl chloride	0.0751		0.000799	0.00292	1	09/21/2019 02:59	WG1349721
Xylenes, Total	U		0.00559	0.00760	1	09/21/2019 02:59	WG1349721
(S) Toluene-d8	*104*			*75.0-131*		*09/21/2019 02:59*	WG1349721
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/21/2019 02:59*	WG1349721
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/21/2019 02:59*	WG1349721

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.1		1	09/20/2019 17:49	WG1349352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0333	~~B~~	0.0161	0.0294	1	09/21/2019 03:19	WG1349721
Acrylonitrile	U		0.00223	0.0147	1	09/21/2019 03:19	WG1349721
Benzene	0.0182		0.000470	0.00118	1	09/21/2019 03:19	WG1349721
Bromobenzene	U		0.00123	0.0147	1	09/21/2019 03:19	WG1349721
Bromodichloromethane	U		0.000926	0.00294	1	09/21/2019 03:19	WG1349721
Bromochloromethane	U		0.00133	0.00588	1	09/21/2019 03:19	WG1349721
Bromoform	U		0.00703	0.0294	1	09/21/2019 03:19	WG1349721
Bromomethane	U		0.00435	0.0147	1	09/21/2019 03:19	WG1349721
n-Butylbenzene	U		0.00451	0.0147	1	09/21/2019 03:19	WG1349721
sec-Butylbenzene	U		0.00297	0.0147	1	09/21/2019 03:19	WG1349721
tert-Butylbenzene	U		0.00182	0.00588	1	09/21/2019 03:19	WG1349721
Carbon disulfide	U	UJ J4	0.00477	0.0147	1	09/21/2019 03:19	WG1349721
Carbon tetrachloride	U		0.00127	0.00588	1	09/21/2019 03:19	WG1349721
Chlorobenzene	U		0.000674	0.00294	1	09/21/2019 03:19	WG1349721
Chlorodibromomethane	U		0.000529	0.00294	1	09/21/2019 03:19	WG1349721
Chloroethane	U		0.00127	0.00588	1	09/21/2019 03:19	WG1349721
Chloroform	U		0.000488	0.00294	1	09/21/2019 03:19	WG1349721
Chloromethane	U		0.00163	0.0147	1	09/21/2019 03:19	WG1349721
2-Chlorotoluene	U		0.00108	0.00294	1	09/21/2019 03:19	WG1349721
4-Chlorotoluene	U		0.00133	0.00588	1	09/21/2019 03:19	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00600	0.0294	1	09/21/2019 03:19	WG1349721
1,2-Dibromoethane	U		0.000617	0.00294	1	09/21/2019 03:19	WG1349721
Dibromomethane	U		0.00118	0.00588	1	09/21/2019 03:19	WG1349721
1,2-Dichlorobenzene	U		0.00170	0.00588	1	09/21/2019 03:19	WG1349721
1,3-Dichlorobenzene	U		0.00200	0.00588	1	09/21/2019 03:19	WG1349721
1,4-Dichlorobenzene	U		0.00232	0.00588	1	09/21/2019 03:19	WG1349721
Dichlorodifluoromethane	U		0.000962	0.00294	1	09/21/2019 03:19	WG1349721
1,1-Dichloroethane	U		0.000676	0.00294	1	09/21/2019 03:19	WG1349721
1,2-Dichloroethane	U		0.000558	0.00294	1	09/21/2019 03:19	WG1349721
1,1-Dichloroethene	U		0.000588	0.00294	1	09/21/2019 03:19	WG1349721
cis-1,2-Dichloroethene	0.136		0.000811	0.00294	1	09/21/2019 03:19	WG1349721
trans-1,2-Dichloroethene	U		0.00168	0.00588	1	09/21/2019 03:19	WG1349721
1,2-Dichloropropane	U		0.00149	0.00588	1	09/21/2019 03:19	WG1349721
1,1-Dichloropropene	U		0.000823	0.00294	1	09/21/2019 03:19	WG1349721
1,3-Dichloropropane	U		0.00206	0.00588	1	09/21/2019 03:19	WG1349721
cis-1,3-Dichloropropene	U		0.000797	0.00294	1	09/21/2019 03:19	WG1349721
trans-1,3-Dichloropropene	U		0.00180	0.00588	1	09/21/2019 03:19	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00165	0.00588	1	09/21/2019 03:19	WG1349721
2,2-Dichloropropane	U		0.000932	0.00294	1	09/21/2019 03:19	WG1349721
Di-isopropyl ether	U		0.000412	0.00118	1	09/21/2019 03:19	WG1349721
Ethylbenzene	U		0.000623	0.00294	1	09/21/2019 03:19	WG1349721
Hexachloro-1,3-butadiene	U		0.0149	0.0294	1	09/21/2019 03:19	WG1349721
2-Hexanone	U		0.0118	0.0294	1	09/21/2019 03:19	WG1349721
n-Hexane	0.00290	J J	0.00125	0.00588	1	09/21/2019 03:19	WG1349721
Iodomethane	U		0.00711	0.0147	1	09/21/2019 03:19	WG1349721
Isopropylbenzene	U		0.00101	0.00294	1	09/21/2019 03:19	WG1349721
p-Isopropyltoluene	U		0.00274	0.00588	1	09/21/2019 03:19	WG1349721
2-Butanone (MEK)	U		0.0147	0.0294	1	09/21/2019 03:19	WG1349721
Methylene Chloride	U		0.00781	0.0294	1	09/21/2019 03:19	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0294	1	09/21/2019 03:19	WG1349721

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000347	0.00118	1	09/21/2019 03:19	WG1349721
Naphthalene	U		0.00367	0.0147	1	09/21/2019 03:19	WG1349721
n-Propylbenzene	U		0.00139	0.00588	1	09/21/2019 03:19	WG1349721
Styrene	U		0.00321	0.0147	1	09/21/2019 03:19	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000588	0.00294	1	09/21/2019 03:19	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000459	0.00294	1	09/21/2019 03:19	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000794	0.00294	1	09/21/2019 03:19	WG1349721
Tetrachloroethene	U		0.000823	0.00294	1	09/21/2019 03:19	WG1349721
Toluene	0.00704		0.00147	0.00588	1	09/21/2019 03:19	WG1349721
1,2,3-Trichlorobenzene	U		0.000735	0.00294	1	09/21/2019 03:19	WG1349721
1,2,4-Trichlorobenzene	U		0.00567	0.0147	1	09/21/2019 03:19	WG1349721
1,1,1-Trichloroethane	U		0.000323	0.00294	1	09/21/2019 03:19	WG1349721
1,1,2-Trichloroethane	U		0.00104	0.00294	1	09/21/2019 03:19	WG1349721
Trichloroethene	U		0.000470	0.00118	1	09/21/2019 03:19	WG1349721
Trichlorofluoromethane	U		0.000588	0.00294	1	09/21/2019 03:19	WG1349721
1,2,3-Trichloropropane	U		0.00600	0.0147	1	09/21/2019 03:19	WG1349721
1,2,4-Trimethylbenzene	U		0.00136	0.00588	1	09/21/2019 03:19	WG1349721
1,2,3-Trimethylbenzene	U		0.00135	0.00588	1	09/21/2019 03:19	WG1349721
1,3,5-Trimethylbenzene	U		0.00127	0.00588	1	09/21/2019 03:19	WG1349721
Vinyl acetate	U		0.00414	0.0147	1	09/21/2019 03:19	WG1349721
Vinyl chloride	U		0.000803	0.00294	1	09/21/2019 03:19	WG1349721
Xylenes, Total	U		0.00562	0.00764	1	09/21/2019 03:19	WG1349721
(S) Toluene-d8	*102*			*75.0-131*		*09/21/2019 03:19*	WG1349721
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/21/2019 03:19*	WG1349721
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/21/2019 03:19*	WG1349721

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.2		1	09/20/2019 17:49	WG1349352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0168 U	~~B J~~	0.0163	0.0297	1	09/21/2019 03:40	WG1349721
Acrylonitrile	U		0.00226	0.0148	1	09/21/2019 03:40	WG1349721
Benzene	0.000753	J	0.000475	0.00119	1	09/21/2019 03:40	WG1349721
Bromobenzene	U		0.00125	0.0148	1	09/21/2019 03:40	WG1349721
Bromodichloromethane	U		0.000936	0.00297	1	09/21/2019 03:40	WG1349721
Bromochloromethane	U		0.00134	0.00594	1	09/21/2019 03:40	WG1349721
Bromoform	U		0.00710	0.0297	1	09/21/2019 03:40	WG1349721
Bromomethane	U		0.00439	0.0148	1	09/21/2019 03:40	WG1349721
n-Butylbenzene	U		0.00456	0.0148	1	09/21/2019 03:40	WG1349721
sec-Butylbenzene	U		0.00300	0.0148	1	09/21/2019 03:40	WG1349721
tert-Butylbenzene	U		0.00184	0.00594	1	09/21/2019 03:40	WG1349721
Carbon disulfide	U UJ	J4	0.00482	0.0148	1	09/21/2019 03:40	WG1349721
Carbon tetrachloride	U		0.00128	0.00594	1	09/21/2019 03:40	WG1349721
Chlorobenzene	U		0.000680	0.00297	1	09/21/2019 03:40	WG1349721
Chlorodibromomethane	U		0.000534	0.00297	1	09/21/2019 03:40	WG1349721
Chloroethane	U		0.00128	0.00594	1	09/21/2019 03:40	WG1349721
Chloroform	U		0.000493	0.00297	1	09/21/2019 03:40	WG1349721
Chloromethane	U		0.00165	0.0148	1	09/21/2019 03:40	WG1349721
2-Chlorotoluene	U		0.00109	0.00297	1	09/21/2019 03:40	WG1349721
4-Chlorotoluene	U		0.00134	0.00594	1	09/21/2019 03:40	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00606	0.0297	1	09/21/2019 03:40	WG1349721
1,2-Dibromoethane	U		0.000623	0.00297	1	09/21/2019 03:40	WG1349721
Dibromomethane	U		0.00119	0.00594	1	09/21/2019 03:40	WG1349721
1,2-Dichlorobenzene	U		0.00172	0.00594	1	09/21/2019 03:40	WG1349721
1,3-Dichlorobenzene	U		0.00202	0.00594	1	09/21/2019 03:40	WG1349721
1,4-Dichlorobenzene	U		0.00234	0.00594	1	09/21/2019 03:40	WG1349721
Dichlorodifluoromethane	U		0.000971	0.00297	1	09/21/2019 03:40	WG1349721
1,1-Dichloroethane	U		0.000683	0.00297	1	09/21/2019 03:40	WG1349721
1,2-Dichloroethane	U		0.000564	0.00297	1	09/21/2019 03:40	WG1349721
1,1-Dichloroethene	U		0.000594	0.00297	1	09/21/2019 03:40	WG1349721
cis-1,2-Dichloroethene	0.0246		0.000819	0.00297	1	09/21/2019 03:40	WG1349721
trans-1,2-Dichloroethene	U		0.00170	0.00594	1	09/21/2019 03:40	WG1349721
1,2-Dichloropropane	U		0.00151	0.00594	1	09/21/2019 03:40	WG1349721
1,1-Dichloropropene	U		0.000831	0.00297	1	09/21/2019 03:40	WG1349721
1,3-Dichloropropane	U		0.00208	0.00594	1	09/21/2019 03:40	WG1349721
cis-1,3-Dichloropropene	U		0.000805	0.00297	1	09/21/2019 03:40	WG1349721
trans-1,3-Dichloropropene	U		0.00182	0.00594	1	09/21/2019 03:40	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00166	0.00594	1	09/21/2019 03:40	WG1349721
2,2-Dichloropropane	U		0.000942	0.00297	1	09/21/2019 03:40	WG1349721
Di-isopropyl ether	U		0.000416	0.00119	1	09/21/2019 03:40	WG1349721
Ethylbenzene	U		0.000629	0.00297	1	09/21/2019 03:40	WG1349721
Hexachloro-1,3-butadiene	U		0.0151	0.0297	1	09/21/2019 03:40	WG1349721
2-Hexanone	U		0.0119	0.0297	1	09/21/2019 03:40	WG1349721
n-Hexane	U		0.00126	0.00594	1	09/21/2019 03:40	WG1349721
Iodomethane	U		0.00718	0.0148	1	09/21/2019 03:40	WG1349721
Isopropylbenzene	U		0.00102	0.00297	1	09/21/2019 03:40	WG1349721
p-Isopropyltoluene	U		0.00277	0.00594	1	09/21/2019 03:40	WG1349721
2-Butanone (MEK)	U		0.0148	0.0297	1	09/21/2019 03:40	WG1349721
Methylene Chloride	U		0.00788	0.0297	1	09/21/2019 03:40	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0297	1	09/21/2019 03:40	WG1349721

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000350	0.00119	1	09/21/2019 03:40	WG1349721
Naphthalene	U		0.00370	0.0148	1	09/21/2019 03:40	WG1349721
n-Propylbenzene	U		0.00140	0.00594	1	09/21/2019 03:40	WG1349721
Styrene	U		0.00324	0.0148	1	09/21/2019 03:40	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000594	0.00297	1	09/21/2019 03:40	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000463	0.00297	1	09/21/2019 03:40	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000801	0.00297	1	09/21/2019 03:40	WG1349721
Tetrachloroethene	U		0.000831	0.00297	1	09/21/2019 03:40	WG1349721
Toluene	0.00569 J	J	0.00148	0.00594	1	09/21/2019 03:40	WG1349721
1,2,3-Trichlorobenzene	U		0.000742	0.00297	1	09/21/2019 03:40	WG1349721
1,2,4-Trichlorobenzene	U		0.00572	0.0148	1	09/21/2019 03:40	WG1349721
1,1,1-Trichloroethane	U		0.000327	0.00297	1	09/21/2019 03:40	WG1349721
1,1,2-Trichloroethane	U		0.00105	0.00297	1	09/21/2019 03:40	WG1349721
Trichloroethene	U		0.000475	0.00119	1	09/21/2019 03:40	WG1349721
Trichlorofluoromethane	U		0.000594	0.00297	1	09/21/2019 03:40	WG1349721
1,2,3-Trichloropropane	U		0.00606	0.0148	1	09/21/2019 03:40	WG1349721
1,2,4-Trimethylbenzene	U		0.00138	0.00594	1	09/21/2019 03:40	WG1349721
1,2,3-Trimethylbenzene	U		0.00137	0.00594	1	09/21/2019 03:40	WG1349721
1,3,5-Trimethylbenzene	U		0.00128	0.00594	1	09/21/2019 03:40	WG1349721
Vinyl acetate	U		0.00418	0.0148	1	09/21/2019 03:40	WG1349721
Vinyl chloride	U		0.000811	0.00297	1	09/21/2019 03:40	WG1349721
Xylenes, Total	U		0.00568	0.00772	1	09/21/2019 03:40	WG1349721
(S) Toluene-d8	*107*			*75.0-131*		*09/21/2019 03:40*	WG1349721
(S) 4-Bromofluorobenzene	*99.8*			*67.0-138*		*09/21/2019 03:40*	WG1349721
(S) 1,2-Dichloroethane-d4	*92.5*			*70.0-130*		*09/21/2019 03:40*	WG1349721

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.0		1	09/20/2019 17:49	WG1349352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0195	U ~~B J~~	0.0163	0.0298	1	09/21/2019 04:00	WG1349721
Acrylonitrile	U		0.00226	0.0149	1	09/21/2019 04:00	WG1349721
Benzene	U		0.000476	0.00119	1	09/21/2019 04:00	WG1349721
Bromobenzene	U		0.00125	0.0149	1	09/21/2019 04:00	WG1349721
Bromodichloromethane	U		0.000938	0.00298	1	09/21/2019 04:00	WG1349721
Bromochloromethane	U		0.00135	0.00595	1	09/21/2019 04:00	WG1349721
Bromoform	U		0.00712	0.0298	1	09/21/2019 04:00	WG1349721
Bromomethane	U		0.00441	0.0149	1	09/21/2019 04:00	WG1349721
n-Butylbenzene	U		0.00457	0.0149	1	09/21/2019 04:00	WG1349721
sec-Butylbenzene	U		0.00301	0.0149	1	09/21/2019 04:00	WG1349721
tert-Butylbenzene	U		0.00185	0.00595	1	09/21/2019 04:00	WG1349721
Carbon disulfide	U	UJ J4	0.00483	0.0149	1	09/21/2019 04:00	WG1349721
Carbon tetrachloride	U		0.00129	0.00595	1	09/21/2019 04:00	WG1349721
Chlorobenzene	U		0.000682	0.00298	1	09/21/2019 04:00	WG1349721
Chlorodibromomethane	U		0.000536	0.00298	1	09/21/2019 04:00	WG1349721
Chloroethane	U		0.00129	0.00595	1	09/21/2019 04:00	WG1349721
Chloroform	U		0.000494	0.00298	1	09/21/2019 04:00	WG1349721
Chloromethane	U		0.00166	0.0149	1	09/21/2019 04:00	WG1349721
2-Chlorotoluene	U		0.00110	0.00298	1	09/21/2019 04:00	WG1349721
4-Chlorotoluene	U		0.00135	0.00595	1	09/21/2019 04:00	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00607	0.0298	1	09/21/2019 04:00	WG1349721
1,2-Dibromoethane	U		0.000625	0.00298	1	09/21/2019 04:00	WG1349721
Dibromomethane	U		0.00119	0.00595	1	09/21/2019 04:00	WG1349721
1,2-Dichlorobenzene	U		0.00173	0.00595	1	09/21/2019 04:00	WG1349721
1,3-Dichlorobenzene	U		0.00202	0.00595	1	09/21/2019 04:00	WG1349721
1,4-Dichlorobenzene	U		0.00235	0.00595	1	09/21/2019 04:00	WG1349721
Dichlorodifluoromethane	U		0.000974	0.00298	1	09/21/2019 04:00	WG1349721
1,1-Dichloroethane	U		0.000685	0.00298	1	09/21/2019 04:00	WG1349721
1,2-Dichloroethane	U		0.000566	0.00298	1	09/21/2019 04:00	WG1349721
1,1-Dichloroethene	U		0.000595	0.00298	1	09/21/2019 04:00	WG1349721
cis-1,2-Dichloroethene	0.0119		0.000822	0.00298	1	09/21/2019 04:00	WG1349721
trans-1,2-Dichloroethene	U		0.00170	0.00595	1	09/21/2019 04:00	WG1349721
1,2-Dichloropropane	U		0.00151	0.00595	1	09/21/2019 04:00	WG1349721
1,1-Dichloropropene	U		0.000833	0.00298	1	09/21/2019 04:00	WG1349721
1,3-Dichloropropane	U		0.00208	0.00595	1	09/21/2019 04:00	WG1349721
cis-1,3-Dichloropropene	U		0.000807	0.00298	1	09/21/2019 04:00	WG1349721
trans-1,3-Dichloropropene	U		0.00182	0.00595	1	09/21/2019 04:00	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00167	0.00595	1	09/21/2019 04:00	WG1349721
2,2-Dichloropropane	U		0.000944	0.00298	1	09/21/2019 04:00	WG1349721
Di-isopropyl ether	U		0.000417	0.00119	1	09/21/2019 04:00	WG1349721
Ethylbenzene	U		0.000631	0.00298	1	09/21/2019 04:00	WG1349721
Hexachloro-1,3-butadiene	U		0.0151	0.0298	1	09/21/2019 04:00	WG1349721
2-Hexanone	U		0.0119	0.0298	1	09/21/2019 04:00	WG1349721
n-Hexane	U		0.00126	0.00595	1	09/21/2019 04:00	WG1349721
Iodomethane	U		0.00720	0.0149	1	09/21/2019 04:00	WG1349721
Isopropylbenzene	U		0.00103	0.00298	1	09/21/2019 04:00	WG1349721
p-Isopropyltoluene	U		0.00277	0.00595	1	09/21/2019 04:00	WG1349721
2-Butanone (MEK)	U		0.0149	0.0298	1	09/21/2019 04:00	WG1349721
Methylene Chloride	U		0.00791	0.0298	1	09/21/2019 04:00	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	09/21/2019 04:00	WG1349721

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000351	0.00119	1	09/21/2019 04:00	WG1349721
Naphthalene	U		0.00371	0.0149	1	09/21/2019 04:00	WG1349721
n-Propylbenzene	U		0.00140	0.00595	1	09/21/2019 04:00	WG1349721
Styrene	U		0.00325	0.0149	1	09/21/2019 04:00	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000595	0.00298	1	09/21/2019 04:00	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000464	0.00298	1	09/21/2019 04:00	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000804	0.00298	1	09/21/2019 04:00	WG1349721
Tetrachloroethene	U		0.000833	0.00298	1	09/21/2019 04:00	WG1349721
Toluene	0.00926		0.00149	0.00595	1	09/21/2019 04:00	WG1349721
1,2,3-Trichlorobenzene	U		0.000744	0.00298	1	09/21/2019 04:00	WG1349721
1,2,4-Trichlorobenzene	U		0.00574	0.0149	1	09/21/2019 04:00	WG1349721
1,1,1-Trichloroethane	U		0.000327	0.00298	1	09/21/2019 04:00	WG1349721
1,1,2-Trichloroethane	U		0.00105	0.00298	1	09/21/2019 04:00	WG1349721
Trichloroethene	U		0.000476	0.00119	1	09/21/2019 04:00	WG1349721
Trichlorofluoromethane	U		0.000595	0.00298	1	09/21/2019 04:00	WG1349721
1,2,3-Trichloropropane	U		0.00607	0.0149	1	09/21/2019 04:00	WG1349721
1,2,4-Trimethylbenzene	U		0.00138	0.00595	1	09/21/2019 04:00	WG1349721
1,2,3-Trimethylbenzene	U		0.00137	0.00595	1	09/21/2019 04:00	WG1349721
1,3,5-Trimethylbenzene	U		0.00129	0.00595	1	09/21/2019 04:00	WG1349721
Vinyl acetate	U		0.00419	0.0149	1	09/21/2019 04:00	WG1349721
Vinyl chloride	U		0.000813	0.00298	1	09/21/2019 04:00	WG1349721
Xylenes, Total	U		0.00569	0.00774	1	09/21/2019 04:00	WG1349721
(S) Toluene-d8	*104*			*75.0-131*		*09/21/2019 04:00*	WG1349721
(S) 4-Bromofluorobenzene	*99.8*			*67.0-138*		*09/21/2019 04:00*	WG1349721
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*09/21/2019 04:00*	WG1349721

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.8		1	09/20/2019 17:49	WG1349352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0170	U ~~B J~~	0.0151	0.0275	1	09/21/2019 04:21	WG1349721
Acrylonitrile	U		0.00209	0.0138	1	09/21/2019 04:21	WG1349721
Benzene	U		0.000440	0.00110	1	09/21/2019 04:21	WG1349721
Bromobenzene	U		0.00116	0.0138	1	09/21/2019 04:21	WG1349721
Bromodichloromethane	U		0.000868	0.00275	1	09/21/2019 04:21	WG1349721
Bromochloromethane	U		0.00124	0.00550	1	09/21/2019 04:21	WG1349721
Bromoform	U		0.00658	0.0275	1	09/21/2019 04:21	WG1349721
Bromomethane	U		0.00407	0.0138	1	09/21/2019 04:21	WG1349721
n-Butylbenzene	U		0.00423	0.0138	1	09/21/2019 04:21	WG1349721
sec-Butylbenzene	U		0.00279	0.0138	1	09/21/2019 04:21	WG1349721
tert-Butylbenzene	U		0.00171	0.00550	1	09/21/2019 04:21	WG1349721
Carbon disulfide	U	UJ J4	0.00447	0.0138	1	09/21/2019 04:21	WG1349721
Carbon tetrachloride	U		0.00119	0.00550	1	09/21/2019 04:21	WG1349721
Chlorobenzene	U		0.000631	0.00275	1	09/21/2019 04:21	WG1349721
Chlorodibromomethane	U		0.000495	0.00275	1	09/21/2019 04:21	WG1349721
Chloroethane	U		0.00119	0.00550	1	09/21/2019 04:21	WG1349721
Chloroform	U		0.000457	0.00275	1	09/21/2019 04:21	WG1349721
Chloromethane	U		0.00153	0.0138	1	09/21/2019 04:21	WG1349721
2-Chlorotoluene	U		0.00101	0.00275	1	09/21/2019 04:21	WG1349721
4-Chlorotoluene	U		0.00124	0.00550	1	09/21/2019 04:21	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00561	0.0275	1	09/21/2019 04:21	WG1349721
1,2-Dibromoethane	U		0.000578	0.00275	1	09/21/2019 04:21	WG1349721
Dibromomethane	U		0.00110	0.00550	1	09/21/2019 04:21	WG1349721
1,2-Dichlorobenzene	U		0.00160	0.00550	1	09/21/2019 04:21	WG1349721
1,3-Dichlorobenzene	U		0.00187	0.00550	1	09/21/2019 04:21	WG1349721
1,4-Dichlorobenzene	U		0.00217	0.00550	1	09/21/2019 04:21	WG1349721
Dichlorodifluoromethane	U		0.000901	0.00275	1	09/21/2019 04:21	WG1349721
1,1-Dichloroethane	U		0.000633	0.00275	1	09/21/2019 04:21	WG1349721
1,2-Dichloroethane	U		0.000523	0.00275	1	09/21/2019 04:21	WG1349721
1,1-Dichloroethene	U		0.000550	0.00275	1	09/21/2019 04:21	WG1349721
cis-1,2-Dichloroethene	0.00860		0.000760	0.00275	1	09/21/2019 04:21	WG1349721
trans-1,2-Dichloroethene	U		0.00157	0.00550	1	09/21/2019 04:21	WG1349721
1,2-Dichloropropane	U		0.00140	0.00550	1	09/21/2019 04:21	WG1349721
1,1-Dichloropropene	U		0.000771	0.00275	1	09/21/2019 04:21	WG1349721
1,3-Dichloropropane	U		0.00193	0.00550	1	09/21/2019 04:21	WG1349721
cis-1,3-Dichloropropene	U		0.000746	0.00275	1	09/21/2019 04:21	WG1349721
trans-1,3-Dichloropropene	U		0.00168	0.00550	1	09/21/2019 04:21	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00154	0.00550	1	09/21/2019 04:21	WG1349721
2,2-Dichloropropane	U		0.000873	0.00275	1	09/21/2019 04:21	WG1349721
Di-isopropyl ether	U		0.000385	0.00110	1	09/21/2019 04:21	WG1349721
Ethylbenzene	U		0.000583	0.00275	1	09/21/2019 04:21	WG1349721
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	09/21/2019 04:21	WG1349721
2-Hexanone	U		0.0110	0.0275	1	09/21/2019 04:21	WG1349721
n-Hexane	U		0.00117	0.00550	1	09/21/2019 04:21	WG1349721
Iodomethane	U		0.00666	0.0138	1	09/21/2019 04:21	WG1349721
Isopropylbenzene	U		0.000950	0.00275	1	09/21/2019 04:21	WG1349721
p-Isopropyltoluene	U		0.00257	0.00550	1	09/21/2019 04:21	WG1349721
2-Butanone (MEK)	U		0.0138	0.0275	1	09/21/2019 04:21	WG1349721
Methylene Chloride	U		0.00731	0.0275	1	09/21/2019 04:21	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	09/21/2019 04:21	WG1349721

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	09/21/2019 04:21	WG1349721
Naphthalene	U		0.00343	0.0138	1	09/21/2019 04:21	WG1349721
n-Propylbenzene	U		0.00130	0.00550	1	09/21/2019 04:21	WG1349721
Styrene	U		0.00301	0.0138	1	09/21/2019 04:21	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000550	0.00275	1	09/21/2019 04:21	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	09/21/2019 04:21	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000743	0.00275	1	09/21/2019 04:21	WG1349721
Tetrachloroethene	U		0.000771	0.00275	1	09/21/2019 04:21	WG1349721
Toluene	0.00362 J	J	0.00138	0.00550	1	09/21/2019 04:21	WG1349721
1,2,3-Trichlorobenzene	U		0.000688	0.00275	1	09/21/2019 04:21	WG1349721
1,2,4-Trichlorobenzene	U		0.00531	0.0138	1	09/21/2019 04:21	WG1349721
1,1,1-Trichloroethane	U		0.000303	0.00275	1	09/21/2019 04:21	WG1349721
1,1,2-Trichloroethane	U		0.000972	0.00275	1	09/21/2019 04:21	WG1349721
Trichloroethene	U		0.000440	0.00110	1	09/21/2019 04:21	WG1349721
Trichlorofluoromethane	U		0.000550	0.00275	1	09/21/2019 04:21	WG1349721
1,2,3-Trichloropropane	U		0.00561	0.0138	1	09/21/2019 04:21	WG1349721
1,2,4-Trimethylbenzene	U		0.00128	0.00550	1	09/21/2019 04:21	WG1349721
1,2,3-Trimethylbenzene	U		0.00127	0.00550	1	09/21/2019 04:21	WG1349721
1,3,5-Trimethylbenzene	U		0.00119	0.00550	1	09/21/2019 04:21	WG1349721
Vinyl acetate	U		0.00388	0.0138	1	09/21/2019 04:21	WG1349721
Vinyl chloride	U		0.000752	0.00275	1	09/21/2019 04:21	WG1349721
Xylenes, Total	U		0.00526	0.00716	1	09/21/2019 04:21	WG1349721
(S) Toluene-d8	*104*			*75.0-131*		*09/21/2019 04:21*	WG1349721
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/21/2019 04:21*	WG1349721
(S) 1,2-Dichloroethane-d4	*97.5*			*70.0-130*		*09/21/2019 04:21*	WG1349721

JC 10/24/19

MW-329-110
Collected date/time: 09/12/19 14:40

SAMPLE RESULTS - 21

L1139523

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.5		1	09/20/2019 17:49	WG1349352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0273	1	09/21/2019 04:41	WG1349721
Acrylonitrile	U		0.00208	0.0137	1	09/21/2019 04:41	WG1349721
Benzene	U		0.000437	0.00109	1	09/21/2019 04:41	WG1349721
Bromobenzene	U		0.00115	0.0137	1	09/21/2019 04:41	WG1349721
Bromodichloromethane	U		0.000861	0.00273	1	09/21/2019 04:41	WG1349721
Bromochloromethane	U		0.00123	0.00546	1	09/21/2019 04:41	WG1349721
Bromoform	U		0.00653	0.0273	1	09/21/2019 04:41	WG1349721
Bromomethane	U		0.00404	0.0137	1	09/21/2019 04:41	WG1349721
n-Butylbenzene	U		0.00420	0.0137	1	09/21/2019 04:41	WG1349721
sec-Butylbenzene	U		0.00276	0.0137	1	09/21/2019 04:41	WG1349721
tert-Butylbenzene	U		0.00169	0.00546	1	09/21/2019 04:41	WG1349721
Carbon disulfide	U	UJ J4	0.00444	0.0137	1	09/21/2019 04:41	WG1349721
Carbon tetrachloride	U		0.00118	0.00546	1	09/21/2019 04:41	WG1349721
Chlorobenzene	U		0.000626	0.00273	1	09/21/2019 04:41	WG1349721
Chlorodibromomethane	U		0.000492	0.00273	1	09/21/2019 04:41	WG1349721
Chloroethane	U		0.00118	0.00546	1	09/21/2019 04:41	WG1349721
Chloroform	U		0.000453	0.00273	1	09/21/2019 04:41	WG1349721
Chloromethane	U		0.00152	0.0137	1	09/21/2019 04:41	WG1349721
2-Chlorotoluene	U		0.00101	0.00273	1	09/21/2019 04:41	WG1349721
4-Chlorotoluene	U		0.00123	0.00546	1	09/21/2019 04:41	WG1349721
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	09/21/2019 04:41	WG1349721
1,2-Dibromoethane	U		0.000574	0.00273	1	09/21/2019 04:41	WG1349721
Dibromomethane	U		0.00109	0.00546	1	09/21/2019 04:41	WG1349721
1,2-Dichlorobenzene	U		0.00158	0.00546	1	09/21/2019 04:41	WG1349721
1,3-Dichlorobenzene	U		0.00186	0.00546	1	09/21/2019 04:41	WG1349721
1,4-Dichlorobenzene	U		0.00215	0.00546	1	09/21/2019 04:41	WG1349721
Dichlorodifluoromethane	U		0.000894	0.00273	1	09/21/2019 04:41	WG1349721
1,1-Dichloroethane	U		0.000628	0.00273	1	09/21/2019 04:41	WG1349721
1,2-Dichloroethane	U		0.000519	0.00273	1	09/21/2019 04:41	WG1349721
1,1-Dichloroethene	U		0.000546	0.00273	1	09/21/2019 04:41	WG1349721
cis-1,2-Dichloroethene	U		0.000754	0.00273	1	09/21/2019 04:41	WG1349721
trans-1,2-Dichloroethene	U		0.00156	0.00546	1	09/21/2019 04:41	WG1349721
1,2-Dichloropropane	U		0.00139	0.00546	1	09/21/2019 04:41	WG1349721
1,1-Dichloropropene	U		0.000765	0.00273	1	09/21/2019 04:41	WG1349721
1,3-Dichloropropane	U		0.00191	0.00546	1	09/21/2019 04:41	WG1349721
cis-1,3-Dichloropropene	U		0.000741	0.00273	1	09/21/2019 04:41	WG1349721
trans-1,3-Dichloropropene	U		0.00167	0.00546	1	09/21/2019 04:41	WG1349721
trans-1,4-Dichloro-2-butene	U		0.00153	0.00546	1	09/21/2019 04:41	WG1349721
2,2-Dichloropropane	U		0.000866	0.00273	1	09/21/2019 04:41	WG1349721
Di-isopropyl ether	U		0.000382	0.00109	1	09/21/2019 04:41	WG1349721
Ethylbenzene	U		0.000579	0.00273	1	09/21/2019 04:41	WG1349721
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/21/2019 04:41	WG1349721
2-Hexanone	U		0.0109	0.0273	1	09/21/2019 04:41	WG1349721
n-Hexane	U		0.00116	0.00546	1	09/21/2019 04:41	WG1349721
Iodomethane	U		0.00661	0.0137	1	09/21/2019 04:41	WG1349721
Isopropylbenzene	U		0.000943	0.00273	1	09/21/2019 04:41	WG1349721
p-Isopropyltoluene	U		0.00255	0.00546	1	09/21/2019 04:41	WG1349721
2-Butanone (MEK)	U		0.0137	0.0273	1	09/21/2019 04:41	WG1349721
Methylene Chloride	U		0.00725	0.0273	1	09/21/2019 04:41	WG1349721
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/21/2019 04:41	WG1349721

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	09/21/2019 04:41	WG1349721
Naphthalene	U		0.00341	0.0137	1	09/21/2019 04:41	WG1349721
n-Propylbenzene	U		0.00129	0.00546	1	09/21/2019 04:41	WG1349721
Styrene	U		0.00298	0.0137	1	09/21/2019 04:41	WG1349721
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1	09/21/2019 04:41	WG1349721
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	09/21/2019 04:41	WG1349721
1,1,2-Trichlorotrifluoroethane	U		0.000737	0.00273	1	09/21/2019 04:41	WG1349721
Tetrachloroethene	U		0.000765	0.00273	1	09/21/2019 04:41	WG1349721
Toluene	U		0.00137	0.00546	1	09/21/2019 04:41	WG1349721
1,2,3-Trichlorobenzene	U		0.000683	0.00273	1	09/21/2019 04:41	WG1349721
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	09/21/2019 04:41	WG1349721
1,1,1-Trichloroethane	U		0.000300	0.00273	1	09/21/2019 04:41	WG1349721
1,1,2-Trichloroethane	U		0.000965	0.00273	1	09/21/2019 04:41	WG1349721
Trichloroethene	U		0.000437	0.00109	1	09/21/2019 04:41	WG1349721
Trichlorofluoromethane	U		0.000546	0.00273	1	09/21/2019 04:41	WG1349721
1,2,3-Trichloropropane	U		0.00557	0.0137	1	09/21/2019 04:41	WG1349721
1,2,4-Trimethylbenzene	U		0.00127	0.00546	1	09/21/2019 04:41	WG1349721
1,2,3-Trimethylbenzene	U		0.00126	0.00546	1	09/21/2019 04:41	WG1349721
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	09/21/2019 04:41	WG1349721
Vinyl acetate	U		0.00385	0.0137	1	09/21/2019 04:41	WG1349721
Vinyl chloride	U		0.000746	0.00273	1	09/21/2019 04:41	WG1349721
Xylenes, Total	U		0.00522	0.00710	1	09/21/2019 04:41	WG1349721
(S) Toluene-d8	*105*			*75.0-131*		*09/21/2019 04:41*	WG1349721
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/21/2019 04:41*	WG1349721
(S) 1,2-Dichloroethane-d4	*94.3*			*70.0-130*		*09/21/2019 04:41*	WG1349721

JC 10/24/19

MW-2003-50

Collected date/time: 09/12/19 00:00

SAMPLE RESULTS - 22

L1139523

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.5		1	09/20/2019 17:49	WG1349352

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0391	~~B~~	0.0150	0.0273	1	09/21/2019 08:05	WG1349767
Acrylonitrile	U		0.00208	0.0137	1	09/21/2019 08:05	WG1349767
Benzene	U		0.000437	0.00109	1	09/21/2019 08:05	WG1349767
Bromobenzene	U		0.00115	0.0137	1	09/21/2019 08:05	WG1349767
Bromodichloromethane	U		0.000861	0.00273	1	09/21/2019 08:05	WG1349767
Bromochloromethane	U	~~J4~~	0.00123	0.00546	1	09/21/2019 08:05	WG1349767
Bromoform	U		0.00653	0.0273	1	09/21/2019 08:05	WG1349767
Bromomethane	U		0.00404	0.0137	1	09/21/2019 08:05	WG1349767
n-Butylbenzene	U		0.00419	0.0137	1	09/21/2019 08:05	WG1349767
sec-Butylbenzene	U		0.00276	0.0137	1	09/21/2019 08:05	WG1349767
tert-Butylbenzene	U		0.00169	0.00546	1	09/21/2019 08:05	WG1349767
Carbon disulfide	U	UJ J3 J4	0.00444	0.0137	1	09/21/2019 08:05	WG1349767
Carbon tetrachloride	U	~~J4~~	0.00118	0.00546	1	09/21/2019 08:05	WG1349767
Chlorobenzene	U		0.000626	0.00273	1	09/21/2019 08:05	WG1349767
Chlorodibromomethane	U		0.000492	0.00273	1	09/21/2019 08:05	WG1349767
Chloroethane	U		0.00118	0.00546	1	09/21/2019 08:05	WG1349767
Chloroform	U		0.000453	0.00273	1	09/21/2019 08:05	WG1349767
Chloromethane	U		0.00152	0.0137	1	09/21/2019 08:05	WG1349767
2-Chlorotoluene	U		0.00101	0.00273	1	09/21/2019 08:05	WG1349767
4-Chlorotoluene	U		0.00123	0.00546	1	09/21/2019 08:05	WG1349767
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	09/21/2019 08:05	WG1349767
1,2-Dibromoethane	U		0.000574	0.00273	1	09/21/2019 08:05	WG1349767
Dibromomethane	U		0.00109	0.00546	1	09/21/2019 08:05	WG1349767
1,2-Dichlorobenzene	U		0.00158	0.00546	1	09/21/2019 08:05	WG1349767
1,3-Dichlorobenzene	U		0.00186	0.00546	1	09/21/2019 08:05	WG1349767
1,4-Dichlorobenzene	U		0.00215	0.00546	1	09/21/2019 08:05	WG1349767
Dichlorodifluoromethane	U		0.000894	0.00273	1	09/21/2019 08:05	WG1349767
1,1-Dichloroethane	U		0.000628	0.00273	1	09/21/2019 08:05	WG1349767
1,2-Dichloroethane	U		0.000519	0.00273	1	09/21/2019 08:05	WG1349767
1,1-Dichloroethene	U		0.000546	0.00273	1	09/21/2019 08:05	WG1349767
cis-1,2-Dichloroethene	U		0.000754	0.00273	1	09/21/2019 08:05	WG1349767
trans-1,2-Dichloroethene	U		0.00156	0.00546	1	09/21/2019 08:05	WG1349767
1,2-Dichloropropane	U		0.00139	0.00546	1	09/21/2019 08:05	WG1349767
1,1-Dichloropropene	U		0.000765	0.00273	1	09/21/2019 08:05	WG1349767
1,3-Dichloropropane	U		0.00191	0.00546	1	09/21/2019 08:05	WG1349767
cis-1,3-Dichloropropene	U		0.000741	0.00273	1	09/21/2019 08:05	WG1349767
trans-1,3-Dichloropropene	U		0.00167	0.00546	1	09/21/2019 08:05	WG1349767
trans-1,4-Dichloro-2-butene	U	UJ J0	0.00153	0.00546	1	09/21/2019 08:05	WG1349767
2,2-Dichloropropane	U		0.000866	0.00273	1	09/21/2019 08:05	WG1349767
Di-isopropyl ether	U		0.000382	0.00109	1	09/21/2019 08:05	WG1349767
Ethylbenzene	U		0.000579	0.00273	1	09/21/2019 08:05	WG1349767
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/21/2019 08:05	WG1349767
2-Hexanone	U		0.0109	0.0273	1	09/21/2019 08:05	WG1349767
n-Hexane	U	UJ J0	0.00116	0.00546	1	09/21/2019 08:05	WG1349767
Iodomethane	U		0.00661	0.0137	1	09/21/2019 08:05	WG1349767
Isopropylbenzene	U		0.000943	0.00273	1	09/21/2019 08:05	WG1349767
p-Isopropyltoluene	U	~~J3~~	0.00255	0.00546	1	09/21/2019 08:05	WG1349767
2-Butanone (MEK)	U		0.0137	0.0273	1	09/21/2019 08:05	WG1349767
Methylene Chloride	U		0.00725	0.0273	1	09/21/2019 08:05	WG1349767
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/21/2019 08:05	WG1349767

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	09/21/2019 08:05	WG1349767
Naphthalene	U		0.00341	0.0137	1	09/21/2019 08:05	WG1349767
n-Propylbenzene	U		0.00129	0.00546	1	09/21/2019 08:05	WG1349767
Styrene	U		0.00298	0.0137	1	09/21/2019 08:05	WG1349767
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1	09/21/2019 08:05	WG1349767
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	09/21/2019 08:05	WG1349767
1,1,2-Trichlorotrifluoroethane	U		0.000737	0.00273	1	09/21/2019 08:05	WG1349767
Tetrachloroethene	U		0.000765	0.00273	1	09/21/2019 08:05	WG1349767
Toluene	0.00455 J	J	0.00137	0.00546	1	09/21/2019 08:05	WG1349767
1,2,3-Trichlorobenzene	U		0.000683	0.00273	1	09/21/2019 08:05	WG1349767
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	09/21/2019 08:05	WG1349767
1,1,1-Trichloroethane	U	~~J4~~	0.000300	0.00273	1	09/21/2019 08:05	WG1349767
1,1,2-Trichloroethane	U		0.000965	0.00273	1	09/21/2019 08:05	WG1349767
Trichloroethene	U		0.000437	0.00109	1	09/21/2019 08:05	WG1349767
Trichlorofluoromethane	U		0.000546	0.00273	1	09/21/2019 08:05	WG1349767
1,2,3-Trichloropropane	U		0.00557	0.0137	1	09/21/2019 08:05	WG1349767
1,2,4-Trimethylbenzene	U		0.00127	0.00546	1	09/21/2019 08:05	WG1349767
1,2,3-Trimethylbenzene	U		0.00126	0.00546	1	09/21/2019 08:05	WG1349767
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	09/21/2019 08:05	WG1349767
Vinyl acetate	U		0.00385	0.0137	1	09/21/2019 08:05	WG1349767
Vinyl chloride	U	~~J4~~	0.000746	0.00273	1	09/21/2019 08:05	WG1349767
Xylenes, Total	U		0.00522	0.00710	1	09/21/2019 08:05	WG1349767
(S) Toluene-d8	*105*			*75.0-131*		*09/21/2019 08:05*	WG1349767
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/21/2019 08:05*	WG1349767
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/21/2019 08:05*	WG1349767

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.22	B J J0	1.05	25.0	1	09/21/2019 11:48	WG1349831
Acrylonitrile	U		0.873	5.00	1	09/21/2019 11:48	WG1349831
Benzene	U		0.0896	0.500	1	09/21/2019 11:48	WG1349831
Bromobenzene	U		0.133	0.500	1	09/21/2019 11:48	WG1349831
Bromodichloromethane	U		0.0800	0.500	1	09/21/2019 11:48	WG1349831
Bromochloromethane	U		0.145	0.500	1	09/21/2019 11:48	WG1349831
Bromoform	U		0.186	0.500	1	09/21/2019 11:48	WG1349831
Bromomethane	U		0.157	2.50	1	09/21/2019 11:48	WG1349831
n-Butylbenzene	U		0.143	0.500	1	09/21/2019 11:48	WG1349831
sec-Butylbenzene	U		0.134	0.500	1	09/21/2019 11:48	WG1349831
tert-Butylbenzene	U		0.183	0.500	1	09/21/2019 11:48	WG1349831
Carbon disulfide	U		0.101	0.500	1	09/21/2019 11:48	WG1349831
Carbon tetrachloride	U		0.159	0.500	1	09/21/2019 11:48	WG1349831
Chlorobenzene	U		0.140	0.500	1	09/21/2019 11:48	WG1349831
Chlorodibromomethane	U		0.128	0.500	1	09/21/2019 11:48	WG1349831
Chloroethane	U		0.141	2.50	1	09/21/2019 11:48	WG1349831
Chloroform	U		0.0860	0.500	1	09/21/2019 11:48	WG1349831
Chloromethane	U		0.153	1.25	1	09/21/2019 11:48	WG1349831
2-Chlorotoluene	U		0.111	0.500	1	09/21/2019 11:48	WG1349831
4-Chlorotoluene	U		0.0972	0.500	1	09/21/2019 11:48	WG1349831
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/21/2019 11:48	WG1349831
1,2-Dibromoethane	U		0.193	0.500	1	09/21/2019 11:48	WG1349831
Dibromomethane	U		0.117	0.500	1	09/21/2019 11:48	WG1349831
1,2-Dichlorobenzene	U		0.101	0.500	1	09/21/2019 11:48	WG1349831
1,3-Dichlorobenzene	U		0.130	0.500	1	09/21/2019 11:48	WG1349831
1,4-Dichlorobenzene	U		0.121	0.500	1	09/21/2019 11:48	WG1349831
Dichlorodifluoromethane	U		0.127	2.50	1	09/21/2019 11:48	WG1349831
1,1-Dichloroethane	U		0.114	0.500	1	09/21/2019 11:48	WG1349831
1,2-Dichloroethane	U		0.108	0.500	1	09/21/2019 11:48	WG1349831
1,1-Dichloroethene	U		0.188	0.500	1	09/21/2019 11:48	WG1349831
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/21/2019 11:48	WG1349831
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/21/2019 11:48	WG1349831
1,2-Dichloropropane	U		0.190	0.500	1	09/21/2019 11:48	WG1349831
1,1-Dichloropropene	U		0.128	0.500	1	09/21/2019 11:48	WG1349831
1,3-Dichloropropane	U		0.147	1.00	1	09/21/2019 11:48	WG1349831
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/21/2019 11:48	WG1349831
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/21/2019 11:48	WG1349831
trans-1,4-Dichloro-2-butene	U	J0	0.257	5.00	1	09/21/2019 11:48	WG1349831
2,2-Dichloropropane	U		0.0929	0.500	1	09/21/2019 11:48	WG1349831
Di-isopropyl ether	U		0.0924	0.500	1	09/21/2019 11:48	WG1349831
Ethylbenzene	U		0.158	0.500	1	09/21/2019 11:48	WG1349831
Hexachloro-1,3-butadiene	U	J0	0.157	1.00	1	09/21/2019 11:48	WG1349831
2-Hexanone	U		0.757	5.00	1	09/21/2019 11:48	WG1349831
n-Hexane	U		0.305	5.00	1	09/21/2019 11:48	WG1349831
Iodomethane	U		0.377	10.0	1	09/21/2019 11:48	WG1349831
Isopropylbenzene	U		0.126	0.500	1	09/21/2019 11:48	WG1349831
p-Isopropyltoluene	U		0.138	0.500	1	09/21/2019 11:48	WG1349831
2-Butanone (MEK)	U		1.28	5.00	1	09/21/2019 11:48	WG1349831
Methylene Chloride	U		1.07	2.50	1	09/21/2019 11:48	WG1349831
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/21/2019 11:48	WG1349831
Methyl tert-butyl ether	U		0.102	0.500	1	09/21/2019 11:48	WG1349831
Naphthalene	U		0.174	2.50	1	09/21/2019 11:48	WG1349831
n-Propylbenzene	U		0.162	0.500	1	09/21/2019 11:48	WG1349831
Styrene	U		0.117	0.500	1	09/21/2019 11:48	WG1349831
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/21/2019 11:48	WG1349831
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/21/2019 11:48	WG1349831

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/21/2019 11:48	WG1349831
Tetrachloroethene	U		0.199	0.500	1	09/21/2019 11:48	WG1349831
Toluene	U		0.412	0.500	1	09/21/2019 11:48	WG1349831
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/21/2019 11:48	WG1349831
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/21/2019 11:48	WG1349831
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/21/2019 11:48	WG1349831
1,1,2-Trichloroethane	U		0.186	0.500	1	09/21/2019 11:48	WG1349831
Trichloroethene	U		0.153	0.500	1	09/21/2019 11:48	WG1349831
Trichlorofluoromethane	U		0.130	2.50	1	09/21/2019 11:48	WG1349831
1,2,3-Trichloropropane	U	J4	0.247	2.50	1	09/21/2019 11:48	WG1349831
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/21/2019 11:48	WG1349831
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/21/2019 11:48	WG1349831
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/21/2019 11:48	WG1349831
Vinyl acetate	U	J0	0.645	5.00	1	09/21/2019 11:48	WG1349831
Vinyl chloride	U		0.118	0.500	1	09/21/2019 11:48	WG1349831
Xylenes, Total	U		0.316	1.50	1	09/21/2019 11:48	WG1349831
(S) Toluene-d8	*101*			*80.0-120*		*09/21/2019 11:48*	WG1349831
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*09/21/2019 11:48*	WG1349831
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/21/2019 11:48*	WG1349831

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.8		1	09/24/2019 13:24	WG1350795

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.149	~~B~~	0.0163	0.0298	1	09/22/2019 13:55	WG1350161
Acrylonitrile	U		0.00227	0.0149	1	09/22/2019 13:55	WG1350161
Benzene	0.00514		0.000477	0.00119	1	09/22/2019 13:55	WG1350161
Bromobenzene	U		0.00125	0.0149	1	09/22/2019 13:55	WG1350161
Bromodichloromethane	U		0.000940	0.00298	1	09/22/2019 13:55	WG1350161
Bromochloromethane	U		0.00135	0.00597	1	09/22/2019 13:55	WG1350161
Bromoform	U		0.00714	0.0298	1	09/22/2019 13:55	WG1350161
Bromomethane	U		0.00441	0.0149	1	09/22/2019 13:55	WG1350161
n-Butylbenzene	U		0.00458	0.0149	1	09/22/2019 13:55	WG1350161
sec-Butylbenzene	U		0.00302	0.0149	1	09/22/2019 13:55	WG1350161
tert-Butylbenzene	U		0.00185	0.00597	1	09/22/2019 13:55	WG1350161
Carbon disulfide	U		0.00484	0.0149	1	09/22/2019 13:55	WG1350161
Carbon tetrachloride	U		0.00129	0.00597	1	09/22/2019 13:55	WG1350161
Chlorobenzene	U		0.000684	0.00298	1	09/22/2019 13:55	WG1350161
Chlorodibromomethane	U		0.000537	0.00298	1	09/22/2019 13:55	WG1350161
Chloroethane	U		0.00129	0.00597	1	09/22/2019 13:55	WG1350161
Chloroform	0.000577	U ~~B J~~	0.000495	0.00298	1	09/22/2019 13:55	WG1350161
Chloromethane	U		0.00166	0.0149	1	09/22/2019 13:55	WG1350161
2-Chlorotoluene	U		0.00110	0.00298	1	09/22/2019 13:55	WG1350161
4-Chlorotoluene	U		0.00135	0.00597	1	09/22/2019 13:55	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00609	0.0298	1	09/22/2019 13:55	WG1350161
1,2-Dibromoethane	U		0.000626	0.00298	1	09/22/2019 13:55	WG1350161
Dibromomethane	U		0.00119	0.00597	1	09/22/2019 13:55	WG1350161
1,2-Dichlorobenzene	U		0.00173	0.00597	1	09/22/2019 13:55	WG1350161
1,3-Dichlorobenzene	U		0.00203	0.00597	1	09/22/2019 13:55	WG1350161
1,4-Dichlorobenzene	U		0.00235	0.00597	1	09/22/2019 13:55	WG1350161
Dichlorodifluoromethane	U		0.000976	0.00298	1	09/22/2019 13:55	WG1350161
1,1-Dichloroethane	U		0.000686	0.00298	1	09/22/2019 13:55	WG1350161
1,2-Dichloroethane	U		0.000567	0.00298	1	09/22/2019 13:55	WG1350161
1,1-Dichloroethene	U		0.000597	0.00298	1	09/22/2019 13:55	WG1350161
cis-1,2-Dichloroethene	U		0.000823	0.00298	1	09/22/2019 13:55	WG1350161
trans-1,2-Dichloroethene	U		0.00171	0.00597	1	09/22/2019 13:55	WG1350161
1,2-Dichloropropane	U		0.00152	0.00597	1	09/22/2019 13:55	WG1350161
1,1-Dichloropropene	U		0.000835	0.00298	1	09/22/2019 13:55	WG1350161
1,3-Dichloropropane	U		0.00209	0.00597	1	09/22/2019 13:55	WG1350161
cis-1,3-Dichloropropene	U		0.000809	0.00298	1	09/22/2019 13:55	WG1350161
trans-1,3-Dichloropropene	U		0.00183	0.00597	1	09/22/2019 13:55	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00167	0.00597	1	09/22/2019 13:55	WG1350161
2,2-Dichloropropane	U		0.000946	0.00298	1	09/22/2019 13:55	WG1350161
Di-isopropyl ether	U		0.000418	0.00119	1	09/22/2019 13:55	WG1350161
Ethylbenzene	0.00118	J J	0.000632	0.00298	1	09/22/2019 13:55	WG1350161
Hexachloro-1,3-butadiene	U		0.0152	0.0298	1	09/22/2019 13:55	WG1350161
2-Hexanone	U		0.0119	0.0298	1	09/22/2019 13:55	WG1350161
n-Hexane	0.0435		0.00126	0.00597	1	09/22/2019 13:55	WG1350161
Iodomethane	U		0.00722	0.0149	1	09/22/2019 13:55	WG1350161
Isopropylbenzene	0.00147	J J	0.00103	0.00298	1	09/22/2019 13:55	WG1350161
p-Isopropyltoluene	0.0120		0.00278	0.00597	1	09/22/2019 13:55	WG1350161
2-Butanone (MEK)	U		0.0149	0.0298	1	09/22/2019 13:55	WG1350161
Methylene Chloride	U		0.00792	0.0298	1	09/22/2019 13:55	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	09/22/2019 13:55	WG1350161

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MW-309-5 SAMPLE RESULTS - 01

Collected date/time: 09/19/19 10:25

L1141899

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	09/22/2019 13:55	WG1350161
Naphthalene	0.0426		0.00372	0.0149	1	09/22/2019 13:55	WG1350161
n-Propylbenzene	0.00223 J	J	0.00141	0.00597	1	09/22/2019 13:55	WG1350161
Styrene	U		0.00326	0.0149	1	09/22/2019 13:55	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000597	0.00298	1	09/22/2019 13:55	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000465	0.00298	1	09/22/2019 13:55	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000805	0.00298	1	09/22/2019 13:55	WG1350161
Tetrachloroethene	0.00188 J	J	0.000835	0.00298	1	09/22/2019 13:55	WG1350161
Toluene	0.0102		0.00149	0.00597	1	09/22/2019 13:55	WG1350161
1,2,3-Trichlorobenzene	U		0.000746	0.00298	1	09/22/2019 13:55	WG1350161
1,2,4-Trichlorobenzene	U		0.00575	0.0149	1	09/22/2019 13:55	WG1350161
1,1,1-Trichloroethane	U		0.000328	0.00298	1	09/22/2019 13:55	WG1350161
1,1,2-Trichloroethane	U		0.00105	0.00298	1	09/22/2019 13:55	WG1350161
Trichloroethene	U		0.000477	0.00119	1	09/22/2019 13:55	WG1350161
Trichlorofluoromethane	U		0.000597	0.00298	1	09/22/2019 13:55	WG1350161
1,2,3-Trichloropropane	U		0.00609	0.0149	1	09/22/2019 13:55	WG1350161
1,2,4-Trimethylbenzene	0.00362 J	J	0.00138	0.00597	1	09/22/2019 13:55	WG1350161
1,2,3-Trimethylbenzene	0.00159 ↓	J	0.00137	0.00597	1	09/22/2019 13:55	WG1350161
1,3,5-Trimethylbenzene	0.00143	J	0.00129	0.00597	1	09/22/2019 13:55	WG1350161
Vinyl acetate	U		0.00420	0.0149	1	09/22/2019 13:55	WG1350161
Vinyl chloride	U		0.000815	0.00298	1	09/22/2019 13:55	WG1350161
Xylenes, Total	0.00734 J	J	0.00570	0.00776	1	09/22/2019 13:55	WG1350161
(S) Toluene-d8	*105*			*75.0-131*		*09/22/2019 13:55*	WG1350161
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*09/22/2019 13:55*	WG1350161
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/22/2019 13:55*	WG1350161

JC 10/24/19

MW-309-10
Collected date/time: 09/19/19 10:30

SAMPLE RESULTS - 02

L1141899

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	63.6		1	09/24/2019 13:24	WG1350795

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	389		26.7	78.7	500	09/21/2019 20:02	WG1350009
(S) a,a,a-Trifluorotoluene(FID)	*89.3*			*77.0-120*		*09/21/2019 20:02*	WG1350009

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	2.72	~~B~~	0.862	1.57	40	09/22/2019 20:24	WG1350161
Acrylonitrile	U		0.120	0.787	40	09/22/2019 20:24	WG1350161
Benzene	0.117		0.0252	0.0629	40	09/22/2019 20:24	WG1350161
Bromobenzene	U		0.0661	0.787	40	09/22/2019 20:24	WG1350161
Bromodichloromethane	U		0.0496	0.157	40	09/22/2019 20:24	WG1350161
Bromochloromethane	U		0.0711	0.315	40	09/22/2019 20:24	WG1350161
Bromoform	U		0.376	1.57	40	09/22/2019 20:24	WG1350161
Bromomethane	U		0.233	0.787	40	09/22/2019 20:24	WG1350161
n-Butylbenzene	0.856		0.242	0.787	40	09/22/2019 20:24	WG1350161
sec-Butylbenzene	0.374 J	J	0.159	0.787	40	09/22/2019 20:24	WG1350161
tert-Butylbenzene	U		0.0975	0.315	40	09/22/2019 20:24	WG1350161
Carbon disulfide	U		0.255	0.787	40	09/22/2019 20:24	WG1350161
Carbon tetrachloride	U		0.0680	0.315	40	09/22/2019 20:24	WG1350161
Chlorobenzene	U		0.0360	0.157	40	09/22/2019 20:24	WG1350161
Chlorodibromomethane	U		0.0283	0.157	40	09/22/2019 20:24	WG1350161
Chloroethane	U		0.0680	0.315	40	09/22/2019 20:24	WG1350161
Chloroform	U		0.0261	0.157	40	09/22/2019 20:24	WG1350161
Chloromethane	U		0.0875	0.787	40	09/22/2019 20:24	WG1350161
2-Chlorotoluene	U		0.0579	0.157	40	09/22/2019 20:24	WG1350161
4-Chlorotoluene	U		0.0711	0.315	40	09/22/2019 20:24	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.321	1.57	40	09/22/2019 20:24	WG1350161
1,2-Dibromoethane	U		0.0330	0.157	40	09/22/2019 20:24	WG1350161
Dibromomethane	U		0.0629	0.315	40	09/22/2019 20:24	WG1350161
1,2-Dichlorobenzene	U		0.0912	0.315	40	09/22/2019 20:24	WG1350161
1,3-Dichlorobenzene	U		0.107	0.315	40	09/22/2019 20:24	WG1350161
1,4-Dichlorobenzene	U		0.124	0.315	40	09/22/2019 20:24	WG1350161
Dichlorodifluoromethane	U		0.0514	0.157	40	09/22/2019 20:24	WG1350161
1,1-Dichloroethane	U		0.0362	0.157	40	09/22/2019 20:24	WG1350161
1,2-Dichloroethane	U		0.0299	0.157	40	09/22/2019 20:24	WG1350161
1,1-Dichloroethene	U		0.0315	0.157	40	09/22/2019 20:24	WG1350161
cis-1,2-Dichloroethene	U		0.0434	0.157	40	09/22/2019 20:24	WG1350161
trans-1,2-Dichloroethene	U		0.0900	0.315	40	09/22/2019 20:24	WG1350161
1,2-Dichloropropane	U		0.0799	0.315	40	09/22/2019 20:24	WG1350161
1,1-Dichloropropene	U		0.0440	0.157	40	09/22/2019 20:24	WG1350161
1,3-Dichloropropane	U		0.110	0.315	40	09/22/2019 20:24	WG1350161
cis-1,3-Dichloropropene	U		0.0426	0.157	40	09/22/2019 20:24	WG1350161
trans-1,3-Dichloropropene	U		0.0963	0.315	40	09/22/2019 20:24	WG1350161
trans-1,4-Dichloro-2-butene	U		0.0881	0.315	40	09/22/2019 20:24	WG1350161
2,2-Dichloropropane	U		0.0499	0.157	40	09/22/2019 20:24	WG1350161
Di-isopropyl ether	U		0.0220	0.0629	40	09/22/2019 20:24	WG1350161
Ethylbenzene	0.121 J	J	0.0334	0.157	40	09/22/2019 20:24	WG1350161
Hexachloro-1,3-butadiene	U		0.799	1.57	40	09/22/2019 20:24	WG1350161
2-Hexanone	U		0.629	1.57	40	09/22/2019 20:24	WG1350161
n-Hexane	0.568		0.0667	0.315	40	09/22/2019 20:24	WG1350161

JC 10/24/19

MW-309-10

SAMPLE RESULTS - 02

Collected date/time: 09/19/19 10:30

L1141899

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U			0.381	0.787	40	09/22/2019 20:24	WG1350161
Isopropylbenzene	0.793			0.0543	0.157	40	09/22/2019 20:24	WG1350161
p-Isopropyltoluene	U			0.147	0.315	40	09/22/2019 20:24	WG1350161
2-Butanone (MEK)	U			0.787	1.57	40	09/22/2019 20:24	WG1350161
Methylene Chloride	U			0.418	1.57	40	09/22/2019 20:24	WG1350161
4-Methyl-2-pentanone (MIBK)	U			0.629	1.57	40	09/22/2019 20:24	WG1350161
Methyl tert-butyl ether	U			0.0186	0.0629	40	09/22/2019 20:24	WG1350161
Naphthalene	0.305	J	J	0.197	0.787	40	09/22/2019 20:24	WG1350161
n-Propylbenzene	2.05			0.0743	0.315	40	09/22/2019 20:24	WG1350161
Styrene	U			0.171	0.787	40	09/22/2019 20:24	WG1350161
1,1,1,2-Tetrachloroethane	U			0.0315	0.157	40	09/22/2019 20:24	WG1350161
1,1,2,2-Tetrachloroethane	U			0.0245	0.157	40	09/22/2019 20:24	WG1350161
1,1,2-Trichlorotrifluoroethane	U			0.0425	0.157	40	09/22/2019 20:24	WG1350161
Tetrachloroethene	U			0.0440	0.157	40	09/22/2019 20:24	WG1350161
Toluene	U			0.0787	0.315	40	09/22/2019 20:24	WG1350161
1,2,3-Trichlorobenzene	U			0.0393	0.157	40	09/22/2019 20:24	WG1350161
1,2,4-Trichlorobenzene	U			0.304	0.787	40	09/22/2019 20:24	WG1350161
1,1,1-Trichloroethane	U			0.0173	0.157	40	09/22/2019 20:24	WG1350161
1,1,2-Trichloroethane	U			0.0555	0.157	40	09/22/2019 20:24	WG1350161
Trichloroethene	U			0.0252	0.0629	40	09/22/2019 20:24	WG1350161
Trichlorofluoromethane	U			0.0315	0.157	40	09/22/2019 20:24	WG1350161
1,2,3-Trichloropropane	U			0.321	0.787	40	09/22/2019 20:24	WG1350161
1,2,4-Trimethylbenzene	0.159	J	J	0.0730	0.315	40	09/22/2019 20:24	WG1350161
1,2,3-Trimethylbenzene	0.152	J	J	0.0724	0.315	40	09/22/2019 20:24	WG1350161
1,3,5-Trimethylbenzene	U			0.0680	0.315	40	09/22/2019 20:24	WG1350161
Vinyl acetate	U			0.222	0.787	40	09/22/2019 20:24	WG1350161
Vinyl chloride	U			0.0429	0.157	40	09/22/2019 20:24	WG1350161
Xylenes, Total	0.400	J	J	0.300	0.409	40	09/22/2019 20:24	WG1350161
(S) Toluene-d8	*104*				*75.0-131*		*09/22/2019 20:24*	WG1350161
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/22/2019 20:24*	WG1350161
(S) 1,2-Dichloroethane-d4	*105*				*70.0-130*		*09/22/2019 20:24*	WG1350161

JC 10/24/19

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	99.0		2.09	6.29	1	09/23/2019 17:40	WG1350213
Residual Range Organics (RRO)	162		5.24	15.7	1	09/23/2019 17:40	WG1350213
(S) o-Terphenyl	*50.3*			*18.0-148*		*09/23/2019 17:40*	WG1350213

JC 10/24/19

MW-309-13.5
Collected date/time: 09/19/19 10:50

SAMPLE RESULTS - 03

L1141899

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.9		1	09/24/2019 11:40	WG1350796

Mercury by Method 7471B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0306 J	J	0.00342	0.0366	1	09/23/2019 20:26	WG1350351

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	1.84 J	J	0.562	2.44	1	09/24/2019 01:27	WG1350130
Barium	75.6		0.208	0.611	1	09/24/2019 01:27	WG1350130
Cadmium	0.160 J	J	0.0855	0.611	1	09/24/2019 01:27	WG1350130
Chromium	39.5		0.171	1.22	1	09/24/2019 01:27	WG1350130
Lead	2.94		0.232	0.611	1	09/24/2019 01:27	WG1350130
Selenium	U		0.757	2.44	1	09/24/2019 01:27	WG1350130
Silver	U		0.147	1.22	1	09/24/2019 01:27	WG1350130

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	15.6		1.04	3.05	25	09/21/2019 20:23	WG1350009
(S) a,a,a-Trifluorotoluene(FID)	*92.9*			*77.0-120*		*09/21/2019 20:23*	WG1350009

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0645 U	~~B~~	0.0167	0.0305	1	09/22/2019 14:16	WG1350161
Acrylonitrile	U		0.00232	0.0153	1	09/22/2019 14:16	WG1350161
Benzene	0.00485		0.000489	0.00122	1	09/22/2019 14:16	WG1350161
Bromobenzene	U		0.00128	0.0153	1	09/22/2019 14:16	WG1350161
Bromodichloromethane	U		0.000962	0.00305	1	09/22/2019 14:16	WG1350161
Bromochloromethane	U		0.00138	0.00611	1	09/22/2019 14:16	WG1350161
Bromoform	U		0.00730	0.0305	1	09/22/2019 14:16	WG1350161
Bromomethane	U		0.00452	0.0153	1	09/22/2019 14:16	WG1350161
n-Butylbenzene	0.0215		0.00469	0.0153	1	09/22/2019 14:16	WG1350161
sec-Butylbenzene	0.00672 J	J	0.00309	0.0153	1	09/22/2019 14:16	WG1350161
tert-Butylbenzene	U		0.00189	0.00611	1	09/22/2019 14:16	WG1350161
Carbon disulfide	U		0.00496	0.0153	1	09/22/2019 14:16	WG1350161
Carbon tetrachloride	U		0.00132	0.00611	1	09/22/2019 14:16	WG1350161
Chlorobenzene	U		0.000700	0.00305	1	09/22/2019 14:16	WG1350161
Chlorodibromomethane	U		0.000550	0.00305	1	09/22/2019 14:16	WG1350161
Chloroethane	U		0.00132	0.00611	1	09/22/2019 14:16	WG1350161
Chloroform	0.00131 U	~~B J~~	0.000507	0.00305	1	09/22/2019 14:16	WG1350161
Chloromethane	U		0.00170	0.0153	1	09/22/2019 14:16	WG1350161
2-Chlorotoluene	U		0.00112	0.00305	1	09/22/2019 14:16	WG1350161
4-Chlorotoluene	U		0.00138	0.00611	1	09/22/2019 14:16	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00623	0.0305	1	09/22/2019 14:16	WG1350161
1,2-Dibromoethane	U		0.000641	0.00305	1	09/22/2019 14:16	WG1350161
Dibromomethane	U		0.00122	0.00611	1	09/22/2019 14:16	WG1350161
1,2-Dichlorobenzene	U		0.00177	0.00611	1	09/22/2019 14:16	WG1350161
1,3-Dichlorobenzene	U		0.00208	0.00611	1	09/22/2019 14:16	WG1350161
1,4-Dichlorobenzene	U		0.00241	0.00611	1	09/22/2019 14:16	WG1350161
Dichlorodifluoromethane	U		0.000999	0.00305	1	09/22/2019 14:16	WG1350161

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethane	U		0.000702	0.00305	1	09/22/2019 14:16	WG1350161
1,2-Dichloroethane	U		0.000580	0.00305	1	09/22/2019 14:16	WG1350161
1,1-Dichloroethene	U		0.000611	0.00305	1	09/22/2019 14:16	WG1350161
cis-1,2-Dichloroethene	U		0.000843	0.00305	1	09/22/2019 14:16	WG1350161
trans-1,2-Dichloroethene	U		0.00175	0.00611	1	09/22/2019 14:16	WG1350161
1,2-Dichloropropane	U		0.00155	0.00611	1	09/22/2019 14:16	WG1350161
1,1-Dichloropropene	U		0.000855	0.00305	1	09/22/2019 14:16	WG1350161
1,3-Dichloropropane	U		0.00214	0.00611	1	09/22/2019 14:16	WG1350161
cis-1,3-Dichloropropene	U		0.000828	0.00305	1	09/22/2019 14:16	WG1350161
trans-1,3-Dichloropropene	U		0.00187	0.00611	1	09/22/2019 14:16	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00171	0.00611	1	09/22/2019 14:16	WG1350161
2,2-Dichloropropane	U		0.000969	0.00305	1	09/22/2019 14:16	WG1350161
Di-isopropyl ether	U		0.000427	0.00122	1	09/22/2019 14:16	WG1350161
Ethylbenzene	0.137		0.000647	0.00305	1	09/22/2019 14:16	WG1350161
Hexachloro-1,3-butadiene	U		0.0155	0.0305	1	09/22/2019 14:16	WG1350161
2-Hexanone	U		0.0122	0.0305	1	09/22/2019 14:16	WG1350161
n-Hexane	0.0617		0.00129	0.00611	1	09/22/2019 14:16	WG1350161
Iodomethane	U		0.00739	0.0153	1	09/22/2019 14:16	WG1350161
Isopropylbenzene	0.0235		0.00105	0.00305	1	09/22/2019 14:16	WG1350161
p-Isopropyltoluene	U		0.00285	0.00611	1	09/22/2019 14:16	WG1350161
2-Butanone (MEK)	U		0.0153	0.0305	1	09/22/2019 14:16	WG1350161
Methylene Chloride	U		0.00811	0.0305	1	09/22/2019 14:16	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0305	1	09/22/2019 14:16	WG1350161
Methyl tert-butyl ether	U		0.000360	0.00122	1	09/22/2019 14:16	WG1350161
Naphthalene	0.185		0.00381	0.0153	1	09/22/2019 14:16	WG1350161
n-Propylbenzene	0.0842		0.00144	0.00611	1	09/22/2019 14:16	WG1350161
Styrene	U		0.00333	0.0153	1	09/22/2019 14:16	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000611	0.00305	1	09/22/2019 14:16	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000476	0.00305	1	09/22/2019 14:16	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000824	0.00305	1	09/22/2019 14:16	WG1350161
Tetrachloroethene	U		0.000855	0.00305	1	09/22/2019 14:16	WG1350161
Toluene	U		0.00153	0.00611	1	09/22/2019 14:16	WG1350161
1,2,3-Trichlorobenzene	U		0.000763	0.00305	1	09/22/2019 14:16	WG1350161
1,2,4-Trichlorobenzene	U		0.00589	0.0153	1	09/22/2019 14:16	WG1350161
1,1,1-Trichloroethane	U		0.000336	0.00305	1	09/22/2019 14:16	WG1350161
1,1,2-Trichloroethane	U		0.00108	0.00305	1	09/22/2019 14:16	WG1350161
Trichloroethene	U		0.000489	0.00122	1	09/22/2019 14:16	WG1350161
Trichlorofluoromethane	U		0.000611	0.00305	1	09/22/2019 14:16	WG1350161
1,2,3-Trichloropropane	U		0.00623	0.0153	1	09/22/2019 14:16	WG1350161
1,2,4-Trimethylbenzene	0.00365 J	J	0.00142	0.00611	1	09/22/2019 14:16	WG1350161
1,2,3-Trimethylbenzene	0.0105		0.00140	0.00611	1	09/22/2019 14:16	WG1350161
1,3,5-Trimethylbenzene	0.00291 J	J	0.00132	0.00611	1	09/22/2019 14:16	WG1350161
Vinyl acetate	U		0.00430	0.0153	1	09/22/2019 14:16	WG1350161
Vinyl chloride	U		0.000834	0.00305	1	09/22/2019 14:16	WG1350161
Xylenes, Total	U		0.00584	0.00794	1	09/22/2019 14:16	WG1350161
(S) Toluene-d8	*103*			*75.0-131*		*09/22/2019 14:16*	WG1350161
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/22/2019 14:16*	WG1350161
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/22/2019 14:16*	WG1350161

JC 10/24/19

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	5.04		1.62	4.89	1	09/23/2019 17:14	WG1350213
Residual Range Organics (RRO)	U		4.07	12.2	1	09/23/2019 17:14	WG1350213
(S) o-Terphenyl	*72.2*			*18.0-148*		*09/23/2019 17:14*	WG1350213

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.9		1	09/24/2019 11:40	WG1350796

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	29.9		0.998	2.94	25	09/24/2019 11:33	WG1350856
(S) a,a,a-Trifluorotoluene(FID)	*97.7*			*77.0-120*		*09/24/2019 11:33*	WG1350856

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.591	~~B~~	0.129	0.235	8	09/22/2019 20:03	WG1350161
Acrylonitrile	U		0.0179	0.118	8	09/22/2019 20:03	WG1350161
Benzene	0.0766		0.00377	0.00942	8	09/22/2019 20:03	WG1350161
Bromobenzene	U		0.00989	0.118	8	09/22/2019 20:03	WG1350161
Bromodichloromethane	U		0.00742	0.0235	8	09/22/2019 20:03	WG1350161
Bromochloromethane	U		0.0106	0.0471	8	09/22/2019 20:03	WG1350161
Bromoform	U		0.0563	0.235	8	09/22/2019 20:03	WG1350161
Bromomethane	U		0.0348	0.118	8	09/22/2019 20:03	WG1350161
n-Butylbenzene	U		0.0361	0.118	8	09/22/2019 20:03	WG1350161
sec-Butylbenzene	0.0279 J	J	0.0238	0.118	8	09/22/2019 20:03	WG1350161
tert-Butylbenzene	U		0.0146	0.0471	8	09/22/2019 20:03	WG1350161
Carbon disulfide	U		0.0383	0.118	8	09/22/2019 20:03	WG1350161
Carbon tetrachloride	U		0.0102	0.0471	8	09/22/2019 20:03	WG1350161
Chlorobenzene	U		0.00539	0.0235	8	09/22/2019 20:03	WG1350161
Chlorodibromomethane	U		0.00424	0.0235	8	09/22/2019 20:03	WG1350161
Chloroethane	U		0.0102	0.0471	8	09/22/2019 20:03	WG1350161
Chloroform	U		0.00391	0.0235	8	09/22/2019 20:03	WG1350161
Chloromethane	U		0.0131	0.118	8	09/22/2019 20:03	WG1350161
2-Chlorotoluene	U		0.00866	0.0235	8	09/22/2019 20:03	WG1350161
4-Chlorotoluene	U		0.0106	0.0471	8	09/22/2019 20:03	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.0480	0.235	8	09/22/2019 20:03	WG1350161
1,2-Dibromoethane	U		0.00494	0.0235	8	09/22/2019 20:03	WG1350161
Dibromomethane	U		0.00942	0.0471	8	09/22/2019 20:03	WG1350161
1,2-Dichlorobenzene	U		0.0137	0.0471	8	09/22/2019 20:03	WG1350161
1,3-Dichlorobenzene	U		0.0160	0.0471	8	09/22/2019 20:03	WG1350161
1,4-Dichlorobenzene	U		0.0186	0.0471	8	09/22/2019 20:03	WG1350161
Dichlorodifluoromethane	U		0.00770	0.0235	8	09/22/2019 20:03	WG1350161
1,1-Dichloroethane	U		0.00542	0.0235	8	09/22/2019 20:03	WG1350161
1,2-Dichloroethane	U		0.00447	0.0235	8	09/22/2019 20:03	WG1350161
1,1-Dichloroethene	U		0.00471	0.0235	8	09/22/2019 20:03	WG1350161
cis-1,2-Dichloroethene	U		0.00650	0.0235	8	09/22/2019 20:03	WG1350161
trans-1,2-Dichloroethene	U		0.0134	0.0471	8	09/22/2019 20:03	WG1350161
1,2-Dichloropropane	U		0.0120	0.0471	8	09/22/2019 20:03	WG1350161
1,1-Dichloropropene	U		0.00659	0.0235	8	09/22/2019 20:03	WG1350161
1,3-Dichloropropane	U		0.0165	0.0471	8	09/22/2019 20:03	WG1350161
cis-1,3-Dichloropropene	U		0.00638	0.0235	8	09/22/2019 20:03	WG1350161
trans-1,3-Dichloropropene	U		0.0144	0.0471	8	09/22/2019 20:03	WG1350161
trans-1,4-Dichloro-2-butene	U		0.0132	0.0471	8	09/22/2019 20:03	WG1350161
2,2-Dichloropropane	U		0.00746	0.0235	8	09/22/2019 20:03	WG1350161
Di-isopropyl ether	U		0.00330	0.00942	8	09/22/2019 20:03	WG1350161
Ethylbenzene	1.45		0.00499	0.0235	8	09/22/2019 20:03	WG1350161
Hexachloro-1,3-butadiene	U		0.120	0.235	8	09/22/2019 20:03	WG1350161
2-Hexanone	U		0.0942	0.235	8	09/22/2019 20:03	WG1350161
n-Hexane	0.343		0.00998	0.0471	8	09/22/2019 20:03	WG1350161

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.0570	0.118	8	09/22/2019 20:03	WG1350161
Isopropylbenzene	0.212		0.00812	0.0235	8	09/22/2019 20:03	WG1350161
p-Isopropyltoluene	U		0.0219	0.0471	8	09/22/2019 20:03	WG1350161
2-Butanone (MEK)	U		0.118	0.235	8	09/22/2019 20:03	WG1350161
Methylene Chloride	U		0.0625	0.235	8	09/22/2019 20:03	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0942	0.235	8	09/22/2019 20:03	WG1350161
Methyl tert-butyl ether	U		0.00278	0.00942	8	09/22/2019 20:03	WG1350161
Naphthalene	0.963		0.0294	0.118	8	09/22/2019 20:03	WG1350161
n-Propylbenzene	0.807		0.0111	0.0471	8	09/22/2019 20:03	WG1350161
Styrene	U		0.0257	0.118	8	09/22/2019 20:03	WG1350161
1,1,1,2-Tetrachloroethane	U		0.00471	0.0235	8	09/22/2019 20:03	WG1350161
1,1,2,2-Tetrachloroethane	U		0.00367	0.0235	8	09/22/2019 20:03	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.00636	0.0235	8	09/22/2019 20:03	WG1350161
Tetrachloroethene	U		0.00659	0.0235	8	09/22/2019 20:03	WG1350161
Toluene	0.0503		0.0118	0.0471	8	09/22/2019 20:03	WG1350161
1,2,3-Trichlorobenzene	U		0.00589	0.0235	8	09/22/2019 20:03	WG1350161
1,2,4-Trichlorobenzene	U		0.0454	0.118	8	09/22/2019 20:03	WG1350161
1,1,1-Trichloroethane	U		0.00259	0.0235	8	09/22/2019 20:03	WG1350161
1,1,2-Trichloroethane	U		0.00831	0.0235	8	09/22/2019 20:03	WG1350161
Trichloroethene	U		0.00377	0.00942	8	09/22/2019 20:03	WG1350161
Trichlorofluoromethane	U		0.00471	0.0235	8	09/22/2019 20:03	WG1350161
1,2,3-Trichloropropane	U		0.0480	0.118	8	09/22/2019 20:03	WG1350161
1,2,4-Trimethylbenzene	0.0333 J	J	0.0109	0.0471	8	09/22/2019 20:03	WG1350161
1,2,3-Trimethylbenzene	0.130		0.0108	0.0471	8	09/22/2019 20:03	WG1350161
1,3,5-Trimethylbenzene	0.0458 J	J	0.0102	0.0471	8	09/22/2019 20:03	WG1350161
Vinyl acetate	U		0.0332	0.118	8	09/22/2019 20:03	WG1350161
Vinyl chloride	U		0.00643	0.0235	8	09/22/2019 20:03	WG1350161
Xylenes, Total	0.174		0.0450	0.0612	8	09/22/2019 20:03	WG1350161
(S) Toluene-d8	*105*			*75.0-131*		*09/22/2019 20:03*	WG1350161
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/22/2019 20:03*	WG1350161
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/22/2019 20:03*	WG1350161

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2.34 J	J	1.57	4.71	1	09/23/2019 17:27	WG1350213
Residual Range Organics (RRO)	4.21 J	J	3.92	11.8	1	09/23/2019 17:27	WG1350213
(S) o-Terphenyl	*62.3*			*18.0-148*		*09/23/2019 17:27*	WG1350213

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MW-309-20

Collected date/time: 09/19/19 11:00

SAMPLE RESULTS - 05

L1141899

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.0		1	09/24/2019 11:40	WG1350796

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.242	~~B~~	0.0161	0.0294	1	09/22/2019 14:36	WG1350161
Acrylonitrile	U		0.00224	0.0147	1	09/22/2019 14:36	WG1350161
Benzene	0.150		0.000471	0.00118	1	09/22/2019 14:36	WG1350161
Bromobenzene	U		0.00124	0.0147	1	09/22/2019 14:36	WG1350161
Bromodichloromethane	U		0.000927	0.00294	1	09/22/2019 14:36	WG1350161
Bromochloromethane	U		0.00133	0.00588	1	09/22/2019 14:36	WG1350161
Bromoform	U		0.00704	0.0294	1	09/22/2019 14:36	WG1350161
Bromomethane	U		0.00435	0.0147	1	09/22/2019 14:36	WG1350161
n-Butylbenzene	U		0.00452	0.0147	1	09/22/2019 14:36	WG1350161
sec-Butylbenzene	0.00632	J J	0.00298	0.0147	1	09/22/2019 14:36	WG1350161
tert-Butylbenzene	U		0.00182	0.00588	1	09/22/2019 14:36	WG1350161
Carbon disulfide	U		0.00478	0.0147	1	09/22/2019 14:36	WG1350161
Carbon tetrachloride	U		0.00127	0.00588	1	09/22/2019 14:36	WG1350161
Chlorobenzene	U		0.000674	0.00294	1	09/22/2019 14:36	WG1350161
Chlorodibromomethane	U		0.000529	0.00294	1	09/22/2019 14:36	WG1350161
Chloroethane	U		0.00127	0.00588	1	09/22/2019 14:36	WG1350161
Chloroform	0.000542	U ~~B J~~	0.000488	0.00294	1	09/22/2019 14:36	WG1350161
Chloromethane	U		0.00164	0.0147	1	09/22/2019 14:36	WG1350161
2-Chlorotoluene	U		0.00108	0.00294	1	09/22/2019 14:36	WG1350161
4-Chlorotoluene	U		0.00133	0.00588	1	09/22/2019 14:36	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00600	0.0294	1	09/22/2019 14:36	WG1350161
1,2-Dibromoethane	U		0.000618	0.00294	1	09/22/2019 14:36	WG1350161
Dibromomethane	U		0.00118	0.00588	1	09/22/2019 14:36	WG1350161
1,2-Dichlorobenzene	U		0.00171	0.00588	1	09/22/2019 14:36	WG1350161
1,3-Dichlorobenzene	U		0.00200	0.00588	1	09/22/2019 14:36	WG1350161
1,4-Dichlorobenzene	U		0.00232	0.00588	1	09/22/2019 14:36	WG1350161
Dichlorodifluoromethane	U		0.000962	0.00294	1	09/22/2019 14:36	WG1350161
1,1-Dichloroethane	U		0.000677	0.00294	1	09/22/2019 14:36	WG1350161
1,2-Dichloroethane	U		0.000559	0.00294	1	09/22/2019 14:36	WG1350161
1,1-Dichloroethene	U		0.000588	0.00294	1	09/22/2019 14:36	WG1350161
cis-1,2-Dichloroethene	U		0.000812	0.00294	1	09/22/2019 14:36	WG1350161
trans-1,2-Dichloroethene	U		0.00168	0.00588	1	09/22/2019 14:36	WG1350161
1,2-Dichloropropane	U		0.00149	0.00588	1	09/22/2019 14:36	WG1350161
1,1-Dichloropropene	U		0.000824	0.00294	1	09/22/2019 14:36	WG1350161
1,3-Dichloropropane	U		0.00206	0.00588	1	09/22/2019 14:36	WG1350161
cis-1,3-Dichloropropene	U		0.000798	0.00294	1	09/22/2019 14:36	WG1350161
trans-1,3-Dichloropropene	U		0.00180	0.00588	1	09/22/2019 14:36	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00165	0.00588	1	09/22/2019 14:36	WG1350161
2,2-Dichloropropane	U		0.000933	0.00294	1	09/22/2019 14:36	WG1350161
Di-isopropyl ether	U		0.000412	0.00118	1	09/22/2019 14:36	WG1350161
Ethylbenzene	0.505		0.000624	0.00294	1	09/22/2019 14:36	WG1350161
Hexachloro-1,3-butadiene	U		0.0149	0.0294	1	09/22/2019 14:36	WG1350161
2-Hexanone	U		0.0118	0.0294	1	09/22/2019 14:36	WG1350161
n-Hexane	0.0872		0.00125	0.00588	1	09/22/2019 14:36	WG1350161
Iodomethane	U		0.00712	0.0147	1	09/22/2019 14:36	WG1350161
Isopropylbenzene	0.164		0.00102	0.00294	1	09/22/2019 14:36	WG1350161
p-Isopropyltoluene	0.00409	J J	0.00274	0.00588	1	09/22/2019 14:36	WG1350161
2-Butanone (MEK)	U		0.0147	0.0294	1	09/22/2019 14:36	WG1350161
Methylene Chloride	U		0.00781	0.0294	1	09/22/2019 14:36	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0294	1	09/22/2019 14:36	WG1350161

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000347	0.00118	1	09/22/2019 14:36	WG1350161
Naphthalene	0.0961		0.00367	0.0147	1	09/22/2019 14:36	WG1350161
n-Propylbenzene	0.221		0.00139	0.00588	1	09/22/2019 14:36	WG1350161
Styrene	U		0.00321	0.0147	1	09/22/2019 14:36	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000588	0.00294	1	09/22/2019 14:36	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000459	0.00294	1	09/22/2019 14:36	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000794	0.00294	1	09/22/2019 14:36	WG1350161
Tetrachloroethene	U		0.000824	0.00294	1	09/22/2019 14:36	WG1350161
Toluene	0.0593		0.00147	0.00588	1	09/22/2019 14:36	WG1350161
1,2,3-Trichlorobenzene	U		0.000735	0.00294	1	09/22/2019 14:36	WG1350161
1,2,4-Trichlorobenzene	U		0.00567	0.0147	1	09/22/2019 14:36	WG1350161
1,1,1-Trichloroethane	U		0.000324	0.00294	1	09/22/2019 14:36	WG1350161
1,1,2-Trichloroethane	U		0.00104	0.00294	1	09/22/2019 14:36	WG1350161
Trichloroethene	U		0.000471	0.00118	1	09/22/2019 14:36	WG1350161
Trichlorofluoromethane	U		0.000588	0.00294	1	09/22/2019 14:36	WG1350161
1,2,3-Trichloropropane	U		0.00600	0.0147	1	09/22/2019 14:36	WG1350161
1,2,4-Trimethylbenzene	0.0140		0.00136	0.00588	1	09/22/2019 14:36	WG1350161
1,2,3-Trimethylbenzene	0.103		0.00135	0.00588	1	09/22/2019 14:36	WG1350161
1,3,5-Trimethylbenzene	0.0260		0.00127	0.00588	1	09/22/2019 14:36	WG1350161
Vinyl acetate	U		0.00414	0.0147	1	09/22/2019 14:36	WG1350161
Vinyl chloride	U		0.000804	0.00294	1	09/22/2019 14:36	WG1350161
Xylenes, Total	0.252		0.00562	0.00765	1	09/22/2019 14:36	WG1350161
(S) Toluene-d8	*106*			*75.0-131*		*09/22/2019 14:36*	WG1350161
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/22/2019 14:36*	WG1350161
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/22/2019 14:36*	WG1350161

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.6		1	09/24/2019 11:40	WG1350796

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0961	~~B~~	0.0162	0.0295	1	09/22/2019 14:56	WG1350161
Acrylonitrile	U		0.00224	0.0148	1	09/22/2019 14:56	WG1350161
Benzene	0.0796		0.000473	0.00118	1	09/22/2019 14:56	WG1350161
Bromobenzene	U		0.00124	0.0148	1	09/22/2019 14:56	WG1350161
Bromodichloromethane	U		0.000931	0.00295	1	09/22/2019 14:56	WG1350161
Bromochloromethane	U		0.00134	0.00591	1	09/22/2019 14:56	WG1350161
Bromoform	U		0.00707	0.0295	1	09/22/2019 14:56	WG1350161
Bromomethane	U		0.00437	0.0148	1	09/22/2019 14:56	WG1350161
n-Butylbenzene	0.0283		0.00454	0.0148	1	09/22/2019 14:56	WG1350161
sec-Butylbenzene	0.0105 J	J	0.00299	0.0148	1	09/22/2019 14:56	WG1350161
tert-Butylbenzene	U		0.00183	0.00591	1	09/22/2019 14:56	WG1350161
Carbon disulfide	U		0.00480	0.0148	1	09/22/2019 14:56	WG1350161
Carbon tetrachloride	U		0.00128	0.00591	1	09/22/2019 14:56	WG1350161
Chlorobenzene	U		0.000677	0.00295	1	09/22/2019 14:56	WG1350161
Chlorodibromomethane	U		0.000532	0.00295	1	09/22/2019 14:56	WG1350161
Chloroethane	U		0.00128	0.00591	1	09/22/2019 14:56	WG1350161
Chloroform	U		0.000490	0.00295	1	09/22/2019 14:56	WG1350161
Chloromethane	U		0.00164	0.0148	1	09/22/2019 14:56	WG1350161
2-Chlorotoluene	U		0.00109	0.00295	1	09/22/2019 14:56	WG1350161
4-Chlorotoluene	U		0.00134	0.00591	1	09/22/2019 14:56	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00603	0.0295	1	09/22/2019 14:56	WG1350161
1,2-Dibromoethane	U		0.000620	0.00295	1	09/22/2019 14:56	WG1350161
Dibromomethane	U		0.00118	0.00591	1	09/22/2019 14:56	WG1350161
1,2-Dichlorobenzene	U		0.00171	0.00591	1	09/22/2019 14:56	WG1350161
1,3-Dichlorobenzene	U		0.00201	0.00591	1	09/22/2019 14:56	WG1350161
1,4-Dichlorobenzene	U		0.00233	0.00591	1	09/22/2019 14:56	WG1350161
Dichlorodifluoromethane	U		0.000966	0.00295	1	09/22/2019 14:56	WG1350161
1,1-Dichloroethane	U		0.000679	0.00295	1	09/22/2019 14:56	WG1350161
1,2-Dichloroethane	U		0.000561	0.00295	1	09/22/2019 14:56	WG1350161
1,1-Dichloroethene	U		0.000591	0.00295	1	09/22/2019 14:56	WG1350161
cis-1,2-Dichloroethene	U		0.000815	0.00295	1	09/22/2019 14:56	WG1350161
trans-1,2-Dichloroethene	U		0.00169	0.00591	1	09/22/2019 14:56	WG1350161
1,2-Dichloropropane	U		0.00150	0.00591	1	09/22/2019 14:56	WG1350161
1,1-Dichloropropene	U		0.000827	0.00295	1	09/22/2019 14:56	WG1350161
1,3-Dichloropropane	U		0.00207	0.00591	1	09/22/2019 14:56	WG1350161
cis-1,3-Dichloropropene	U		0.000801	0.00295	1	09/22/2019 14:56	WG1350161
trans-1,3-Dichloropropene	U		0.00181	0.00591	1	09/22/2019 14:56	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00165	0.00591	1	09/22/2019 14:56	WG1350161
2,2-Dichloropropane	U		0.000937	0.00295	1	09/22/2019 14:56	WG1350161
Di-isopropyl ether	U		0.000414	0.00118	1	09/22/2019 14:56	WG1350161
Ethylbenzene	0.258		0.000626	0.00295	1	09/22/2019 14:56	WG1350161
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	09/22/2019 14:56	WG1350161
2-Hexanone	U		0.0118	0.0295	1	09/22/2019 14:56	WG1350161
n-Hexane	0.0465		0.00125	0.00591	1	09/22/2019 14:56	WG1350161
Iodomethane	U		0.00715	0.0148	1	09/22/2019 14:56	WG1350161
Isopropylbenzene	0.0811		0.00102	0.00295	1	09/22/2019 14:56	WG1350161
p-Isopropyltoluene	0.00444 J	J	0.00275	0.00591	1	09/22/2019 14:56	WG1350161
2-Butanone (MEK)	U		0.0148	0.0295	1	09/22/2019 14:56	WG1350161
Methylene Chloride	U		0.00784	0.0295	1	09/22/2019 14:56	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	09/22/2019 14:56	WG1350161

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000349	0.00118	1	09/22/2019 14:56	WG1350161
Naphthalene	0.117		0.00369	0.0148	1	09/22/2019 14:56	WG1350161
n-Propylbenzene	0.146		0.00139	0.00591	1	09/22/2019 14:56	WG1350161
Styrene	U		0.00323	0.0148	1	09/22/2019 14:56	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000591	0.00295	1	09/22/2019 14:56	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000461	0.00295	1	09/22/2019 14:56	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000797	0.00295	1	09/22/2019 14:56	WG1350161
Tetrachloroethene	U		0.000827	0.00295	1	09/22/2019 14:56	WG1350161
Toluene	0.0132		0.00148	0.00591	1	09/22/2019 14:56	WG1350161
1,2,3-Trichlorobenzene	U		0.000738	0.00295	1	09/22/2019 14:56	WG1350161
1,2,4-Trichlorobenzene	U		0.00569	0.0148	1	09/22/2019 14:56	WG1350161
1,1,1-Trichloroethane	U		0.000325	0.00295	1	09/22/2019 14:56	WG1350161
1,1,2-Trichloroethane	U		0.00104	0.00295	1	09/22/2019 14:56	WG1350161
Trichloroethene	U		0.000473	0.00118	1	09/22/2019 14:56	WG1350161
Trichlorofluoromethane	U		0.000591	0.00295	1	09/22/2019 14:56	WG1350161
1,2,3-Trichloropropane	U		0.00603	0.0148	1	09/22/2019 14:56	WG1350161
1,2,4-Trimethylbenzene	0.0103		0.00137	0.00591	1	09/22/2019 14:56	WG1350161
1,2,3-Trimethylbenzene	0.0537		0.00136	0.00591	1	09/22/2019 14:56	WG1350161
1,3,5-Trimethylbenzene	0.0129		0.00128	0.00591	1	09/22/2019 14:56	WG1350161
Vinyl acetate	U		0.00416	0.0148	1	09/22/2019 14:56	WG1350161
Vinyl chloride	U		0.000807	0.00295	1	09/22/2019 14:56	WG1350161
Xylenes, Total	0.0896		0.00565	0.00768	1	09/22/2019 14:56	WG1350161
(S) Toluene-d8	*103*			*75.0-131*		*09/22/2019 14:56*	WG1350161
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*09/22/2019 14:56*	WG1350161
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/22/2019 14:56*	WG1350161

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.8		1	09/24/2019 11:40	WG1350796

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0899	~~B~~	0.0164	0.0299	1	09/22/2019 15:17	WG1350161
Acrylonitrile	U		0.00227	0.0149	1	09/22/2019 15:17	WG1350161
Benzene	0.00545		0.000478	0.00119	1	09/22/2019 15:17	WG1350161
Bromobenzene	U		0.00125	0.0149	1	09/22/2019 15:17	WG1350161
Bromodichloromethane	U		0.000941	0.00299	1	09/22/2019 15:17	WG1350161
Bromochloromethane	U		0.00135	0.00597	1	09/22/2019 15:17	WG1350161
Bromoform	U		0.00714	0.0299	1	09/22/2019 15:17	WG1350161
Bromomethane	U		0.00442	0.0149	1	09/22/2019 15:17	WG1350161
n-Butylbenzene	0.0229		0.00458	0.0149	1	09/22/2019 15:17	WG1350161
sec-Butylbenzene	0.0114 J	J	0.00302	0.0149	1	09/22/2019 15:17	WG1350161
tert-Butylbenzene	U		0.00185	0.00597	1	09/22/2019 15:17	WG1350161
Carbon disulfide	U		0.00485	0.0149	1	09/22/2019 15:17	WG1350161
Carbon tetrachloride	U		0.00129	0.00597	1	09/22/2019 15:17	WG1350161
Chlorobenzene	U		0.000684	0.00299	1	09/22/2019 15:17	WG1350161
Chlorodibromomethane	U		0.000537	0.00299	1	09/22/2019 15:17	WG1350161
Chloroethane	U		0.00129	0.00597	1	09/22/2019 15:17	WG1350161
Chloroform	0.00111 U	~~B J~~	0.000496	0.00299	1	09/22/2019 15:17	WG1350161
Chloromethane	U		0.00166	0.0149	1	09/22/2019 15:17	WG1350161
2-Chlorotoluene	U		0.00110	0.00299	1	09/22/2019 15:17	WG1350161
4-Chlorotoluene	U		0.00135	0.00597	1	09/22/2019 15:17	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00609	0.0299	1	09/22/2019 15:17	WG1350161
1,2-Dibromoethane	U		0.000627	0.00299	1	09/22/2019 15:17	WG1350161
Dibromomethane	U		0.00119	0.00597	1	09/22/2019 15:17	WG1350161
1,2-Dichlorobenzene	U		0.00173	0.00597	1	09/22/2019 15:17	WG1350161
1,3-Dichlorobenzene	U		0.00203	0.00597	1	09/22/2019 15:17	WG1350161
1,4-Dichlorobenzene	U		0.00235	0.00597	1	09/22/2019 15:17	WG1350161
Dichlorodifluoromethane	U		0.000977	0.00299	1	09/22/2019 15:17	WG1350161
1,1-Dichloroethane	U		0.000687	0.00299	1	09/22/2019 15:17	WG1350161
1,2-Dichloroethane	U		0.000567	0.00299	1	09/22/2019 15:17	WG1350161
1,1-Dichloroethene	U		0.000597	0.00299	1	09/22/2019 15:17	WG1350161
cis-1,2-Dichloroethene	U		0.000824	0.00299	1	09/22/2019 15:17	WG1350161
trans-1,2-Dichloroethene	U		0.00171	0.00597	1	09/22/2019 15:17	WG1350161
1,2-Dichloropropane	U		0.00152	0.00597	1	09/22/2019 15:17	WG1350161
1,1-Dichloropropene	U		0.000836	0.00299	1	09/22/2019 15:17	WG1350161
1,3-Dichloropropane	U		0.00209	0.00597	1	09/22/2019 15:17	WG1350161
cis-1,3-Dichloropropene	U		0.000810	0.00299	1	09/22/2019 15:17	WG1350161
trans-1,3-Dichloropropene	U		0.00183	0.00597	1	09/22/2019 15:17	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00167	0.00597	1	09/22/2019 15:17	WG1350161
2,2-Dichloropropane	U		0.000947	0.00299	1	09/22/2019 15:17	WG1350161
Di-isopropyl ether	U		0.000418	0.00119	1	09/22/2019 15:17	WG1350161
Ethylbenzene	0.00553		0.000633	0.00299	1	09/22/2019 15:17	WG1350161
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	09/22/2019 15:17	WG1350161
2-Hexanone	U		0.0119	0.0299	1	09/22/2019 15:17	WG1350161
n-Hexane	0.00640		0.00127	0.00597	1	09/22/2019 15:17	WG1350161
Iodomethane	U		0.00722	0.0149	1	09/22/2019 15:17	WG1350161
Isopropylbenzene	0.0215		0.00103	0.00299	1	09/22/2019 15:17	WG1350161
p-Isopropyltoluene	U		0.00278	0.00597	1	09/22/2019 15:17	WG1350161
2-Butanone (MEK)	U		0.0149	0.0299	1	09/22/2019 15:17	WG1350161
Methylene Chloride	U		0.00793	0.0299	1	09/22/2019 15:17	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0299	1	09/22/2019 15:17	WG1350161

JC 10/24/19

MW-309-30

SAMPLE RESULTS - 07

Collected date/time: 09/19/19 11:10

L1141899

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	09/22/2019 15:17	WG1350161
Naphthalene	0.0193		0.00373	0.0149	1	09/22/2019 15:17	WG1350161
n-Propylbenzene	0.126		0.00141	0.00597	1	09/22/2019 15:17	WG1350161
Styrene	U		0.00326	0.0149	1	09/22/2019 15:17	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000597	0.00299	1	09/22/2019 15:17	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000466	0.00299	1	09/22/2019 15:17	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000806	0.00299	1	09/22/2019 15:17	WG1350161
Tetrachloroethene	U		0.000836	0.00299	1	09/22/2019 15:17	WG1350161
Toluene	0.0250		0.00149	0.00597	1	09/22/2019 15:17	WG1350161
1,2,3-Trichlorobenzene	U		0.000746	0.00299	1	09/22/2019 15:17	WG1350161
1,2,4-Trichlorobenzene	U		0.00576	0.0149	1	09/22/2019 15:17	WG1350161
1,1,1-Trichloroethane	U		0.000328	0.00299	1	09/22/2019 15:17	WG1350161
1,1,2-Trichloroethane	U		0.00105	0.00299	1	09/22/2019 15:17	WG1350161
Trichloroethene	U		0.000478	0.00119	1	09/22/2019 15:17	WG1350161
Trichlorofluoromethane	U		0.000597	0.00299	1	09/22/2019 15:17	WG1350161
1,2,3-Trichloropropane	U		0.00609	0.0149	1	09/22/2019 15:17	WG1350161
1,2,4-Trimethylbenzene	0.00456 J ↓	J	0.00139	0.00597	1	09/22/2019 15:17	WG1350161
1,2,3-Trimethylbenzene	0.00494	J	0.00137	0.00597	1	09/22/2019 15:17	WG1350161
1,3,5-Trimethylbenzene	0.00379	J	0.00129	0.00597	1	09/22/2019 15:17	WG1350161
Vinyl acetate	U		0.00420	0.0149	1	09/22/2019 15:17	WG1350161
Vinyl chloride	U		0.000816	0.00299	1	09/22/2019 15:17	WG1350161
Xylenes, Total	0.0159		0.00571	0.00776	1	09/22/2019 15:17	WG1350161
(S) Toluene-d8	*104*			*75.0-131*		*09/22/2019 15:17*	WG1350161
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/22/2019 15:17*	WG1350161
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/22/2019 15:17*	WG1350161

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.5		1	09/24/2019 11:40	WG1350796

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0166	0.0303	1	09/22/2019 15:37	WG1350161
Acrylonitrile	U		0.00230	0.0152	1	09/22/2019 15:37	WG1350161
Benzene	0.0286		0.000485	0.00121	1	09/22/2019 15:37	WG1350161
Bromobenzene	U		0.00127	0.0152	1	09/22/2019 15:37	WG1350161
Bromodichloromethane	U		0.000955	0.00303	1	09/22/2019 15:37	WG1350161
Bromochloromethane	U		0.00137	0.00606	1	09/22/2019 15:37	WG1350161
Bromoform	U		0.00725	0.0303	1	09/22/2019 15:37	WG1350161
Bromomethane	U		0.00449	0.0152	1	09/22/2019 15:37	WG1350161
n-Butylbenzene	U		0.00466	0.0152	1	09/22/2019 15:37	WG1350161
sec-Butylbenzene	U		0.00307	0.0152	1	09/22/2019 15:37	WG1350161
tert-Butylbenzene	U		0.00188	0.00606	1	09/22/2019 15:37	WG1350161
Carbon disulfide	U		0.00492	0.0152	1	09/22/2019 15:37	WG1350161
Carbon tetrachloride	U		0.00131	0.00606	1	09/22/2019 15:37	WG1350161
Chlorobenzene	U		0.000695	0.00303	1	09/22/2019 15:37	WG1350161
Chlorodibromomethane	U		0.000546	0.00303	1	09/22/2019 15:37	WG1350161
Chloroethane	U		0.00131	0.00606	1	09/22/2019 15:37	WG1350161
Chloroform	0.000605 U	~~B J~~	0.000503	0.00303	1	09/22/2019 15:37	WG1350161
Chloromethane	U		0.00169	0.0152	1	09/22/2019 15:37	WG1350161
2-Chlorotoluene	U		0.00112	0.00303	1	09/22/2019 15:37	WG1350161
4-Chlorotoluene	U		0.00137	0.00606	1	09/22/2019 15:37	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00618	0.0303	1	09/22/2019 15:37	WG1350161
1,2-Dibromoethane	U		0.000636	0.00303	1	09/22/2019 15:37	WG1350161
Dibromomethane	U		0.00121	0.00606	1	09/22/2019 15:37	WG1350161
1,2-Dichlorobenzene	U		0.00176	0.00606	1	09/22/2019 15:37	WG1350161
1,3-Dichlorobenzene	U		0.00206	0.00606	1	09/22/2019 15:37	WG1350161
1,4-Dichlorobenzene	U		0.00239	0.00606	1	09/22/2019 15:37	WG1350161
Dichlorodifluoromethane	U		0.000992	0.00303	1	09/22/2019 15:37	WG1350161
1,1-Dichloroethane	U		0.000697	0.00303	1	09/22/2019 15:37	WG1350161
1,2-Dichloroethane	U		0.000576	0.00303	1	09/22/2019 15:37	WG1350161
1,1-Dichloroethene	U		0.000606	0.00303	1	09/22/2019 15:37	WG1350161
cis-1,2-Dichloroethene	0.00721		0.000836	0.00303	1	09/22/2019 15:37	WG1350161
trans-1,2-Dichloroethene	U		0.00173	0.00606	1	09/22/2019 15:37	WG1350161
1,2-Dichloropropane	U		0.00154	0.00606	1	09/22/2019 15:37	WG1350161
1,1-Dichloropropene	U		0.000849	0.00303	1	09/22/2019 15:37	WG1350161
1,3-Dichloropropane	U		0.00212	0.00606	1	09/22/2019 15:37	WG1350161
cis-1,3-Dichloropropene	U		0.000822	0.00303	1	09/22/2019 15:37	WG1350161
trans-1,3-Dichloropropene	U		0.00185	0.00606	1	09/22/2019 15:37	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00170	0.00606	1	09/22/2019 15:37	WG1350161
2,2-Dichloropropane	U		0.000961	0.00303	1	09/22/2019 15:37	WG1350161
Di-isopropyl ether	U		0.000424	0.00121	1	09/22/2019 15:37	WG1350161
Ethylbenzene	0.000977 J	J	0.000643	0.00303	1	09/22/2019 15:37	WG1350161
Hexachloro-1,3-butadiene	U		0.0154	0.0303	1	09/22/2019 15:37	WG1350161
2-Hexanone	U		0.0121	0.0303	1	09/22/2019 15:37	WG1350161
n-Hexane	0.00516 J	J	0.00129	0.00606	1	09/22/2019 15:37	WG1350161
Iodomethane	U		0.00733	0.0152	1	09/22/2019 15:37	WG1350161
Isopropylbenzene	U		0.00105	0.00303	1	09/22/2019 15:37	WG1350161
p-Isopropyltoluene	U		0.00282	0.00606	1	09/22/2019 15:37	WG1350161
2-Butanone (MEK)	U		0.0152	0.0303	1	09/22/2019 15:37	WG1350161
Methylene Chloride	U		0.00805	0.0303	1	09/22/2019 15:37	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0303	1	09/22/2019 15:37	WG1350161

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000358	0.00121	1	09/22/2019 15:37	WG1350161
Naphthalene	U		0.00378	0.0152	1	09/22/2019 15:37	WG1350161
n-Propylbenzene	U		0.00143	0.00606	1	09/22/2019 15:37	WG1350161
Styrene	U		0.00331	0.0152	1	09/22/2019 15:37	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000606	0.00303	1	09/22/2019 15:37	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000473	0.00303	1	09/22/2019 15:37	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000818	0.00303	1	09/22/2019 15:37	WG1350161
Tetrachloroethene	U		0.000849	0.00303	1	09/22/2019 15:37	WG1350161
Toluene	0.0200		0.00152	0.00606	1	09/22/2019 15:37	WG1350161
1,2,3-Trichlorobenzene	U		0.000758	0.00303	1	09/22/2019 15:37	WG1350161
1,2,4-Trichlorobenzene	U		0.00584	0.0152	1	09/22/2019 15:37	WG1350161
1,1,1-Trichloroethane	U		0.000333	0.00303	1	09/22/2019 15:37	WG1350161
1,1,2-Trichloroethane	U		0.00107	0.00303	1	09/22/2019 15:37	WG1350161
Trichloroethene	U		0.000485	0.00121	1	09/22/2019 15:37	WG1350161
Trichlorofluoromethane	0.00150 J	J	0.000606	0.00303	1	09/22/2019 15:37	WG1350161
1,2,3-Trichloropropane	U		0.00618	0.0152	1	09/22/2019 15:37	WG1350161
1,2,4-Trimethylbenzene	U		0.00141	0.00606	1	09/22/2019 15:37	WG1350161
1,2,3-Trimethylbenzene	U		0.00139	0.00606	1	09/22/2019 15:37	WG1350161
1,3,5-Trimethylbenzene	U		0.00131	0.00606	1	09/22/2019 15:37	WG1350161
Vinyl acetate	U		0.00427	0.0152	1	09/22/2019 15:37	WG1350161
Vinyl chloride	U		0.000828	0.00303	1	09/22/2019 15:37	WG1350161
Xylenes, Total	U		0.00579	0.00788	1	09/22/2019 15:37	WG1350161
(S) Toluene-d8	*105*			*75.0-131*		*09/22/2019 15:37*	WG1350161
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/22/2019 15:37*	WG1350161
(S) 1,2-Dichloroethane-d4	*93.8*			*70.0-130*		*09/22/2019 15:37*	WG1350161

JC 10/24/19

MW-309-40

Collected date/time: 09/19/19 11:30

SAMPLE RESULTS - 09

L1141899

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.5		1	09/24/2019 11:40	WG1350796

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0415	U ~~B~~	0.0166	0.0303	1	09/22/2019 15:58	WG1350161
Acrylonitrile	U		0.00230	0.0152	1	09/22/2019 15:58	WG1350161
Benzene	0.0387		0.000485	0.00121	1	09/22/2019 15:58	WG1350161
Bromobenzene	U		0.00127	0.0152	1	09/22/2019 15:58	WG1350161
Bromodichloromethane	U		0.000955	0.00303	1	09/22/2019 15:58	WG1350161
Bromochloromethane	U		0.00137	0.00606	1	09/22/2019 15:58	WG1350161
Bromoform	U		0.00725	0.0303	1	09/22/2019 15:58	WG1350161
Bromomethane	U		0.00449	0.0152	1	09/22/2019 15:58	WG1350161
n-Butylbenzene	U		0.00466	0.0152	1	09/22/2019 15:58	WG1350161
sec-Butylbenzene	U		0.00307	0.0152	1	09/22/2019 15:58	WG1350161
tert-Butylbenzene	U		0.00188	0.00606	1	09/22/2019 15:58	WG1350161
Carbon disulfide	U		0.00492	0.0152	1	09/22/2019 15:58	WG1350161
Carbon tetrachloride	U		0.00131	0.00606	1	09/22/2019 15:58	WG1350161
Chlorobenzene	U		0.000695	0.00303	1	09/22/2019 15:58	WG1350161
Chlorodibromomethane	U		0.000546	0.00303	1	09/22/2019 15:58	WG1350161
Chloroethane	U		0.00131	0.00606	1	09/22/2019 15:58	WG1350161
Chloroform	U		0.000503	0.00303	1	09/22/2019 15:58	WG1350161
Chloromethane	U		0.00169	0.0152	1	09/22/2019 15:58	WG1350161
2-Chlorotoluene	U		0.00112	0.00303	1	09/22/2019 15:58	WG1350161
4-Chlorotoluene	U		0.00137	0.00606	1	09/22/2019 15:58	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00618	0.0303	1	09/22/2019 15:58	WG1350161
1,2-Dibromoethane	U		0.000637	0.00303	1	09/22/2019 15:58	WG1350161
Dibromomethane	U		0.00121	0.00606	1	09/22/2019 15:58	WG1350161
1,2-Dichlorobenzene	U		0.00176	0.00606	1	09/22/2019 15:58	WG1350161
1,3-Dichlorobenzene	U		0.00206	0.00606	1	09/22/2019 15:58	WG1350161
1,4-Dichlorobenzene	U		0.00239	0.00606	1	09/22/2019 15:58	WG1350161
Dichlorodifluoromethane	U		0.000992	0.00303	1	09/22/2019 15:58	WG1350161
1,1-Dichloroethane	U		0.000697	0.00303	1	09/22/2019 15:58	WG1350161
1,2-Dichloroethane	U		0.000576	0.00303	1	09/22/2019 15:58	WG1350161
1,1-Dichloroethene	U		0.000606	0.00303	1	09/22/2019 15:58	WG1350161
cis-1,2-Dichloroethene	0.170		0.000837	0.00303	1	09/22/2019 15:58	WG1350161
trans-1,2-Dichloroethene	U		0.00173	0.00606	1	09/22/2019 15:58	WG1350161
1,2-Dichloropropane	U		0.00154	0.00606	1	09/22/2019 15:58	WG1350161
1,1-Dichloropropene	U		0.000849	0.00303	1	09/22/2019 15:58	WG1350161
1,3-Dichloropropane	U		0.00212	0.00606	1	09/22/2019 15:58	WG1350161
cis-1,3-Dichloropropene	U		0.000822	0.00303	1	09/22/2019 15:58	WG1350161
trans-1,3-Dichloropropene	U		0.00186	0.00606	1	09/22/2019 15:58	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00170	0.00606	1	09/22/2019 15:58	WG1350161
2,2-Dichloropropane	U		0.000962	0.00303	1	09/22/2019 15:58	WG1350161
Di-isopropyl ether	U		0.000424	0.00121	1	09/22/2019 15:58	WG1350161
Ethylbenzene	0.00116	J J	0.000643	0.00303	1	09/22/2019 15:58	WG1350161
Hexachloro-1,3-butadiene	U		0.0154	0.0303	1	09/22/2019 15:58	WG1350161
2-Hexanone	U		0.0121	0.0303	1	09/22/2019 15:58	WG1350161
n-Hexane	U		0.00129	0.00606	1	09/22/2019 15:58	WG1350161
Iodomethane	U		0.00734	0.0152	1	09/22/2019 15:58	WG1350161
Isopropylbenzene	0.00828		0.00105	0.00303	1	09/22/2019 15:58	WG1350161
p-Isopropyltoluene	U		0.00283	0.00606	1	09/22/2019 15:58	WG1350161
2-Butanone (MEK)	U		0.0152	0.0303	1	09/22/2019 15:58	WG1350161
Methylene Chloride	U		0.00805	0.0303	1	09/22/2019 15:58	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0303	1	09/22/2019 15:58	WG1350161

JC 10/24/19

MW-309-40

SAMPLE RESULTS - 09

Collected date/time: 09/19/19 11:30

L1141899

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000358	0.00121	1	09/22/2019 15:58	WG1350161
Naphthalene	U		0.00378	0.0152	1	09/22/2019 15:58	WG1350161
n-Propylbenzene	U		0.00143	0.00606	1	09/22/2019 15:58	WG1350161
Styrene	U		0.00331	0.0152	1	09/22/2019 15:58	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000606	0.00303	1	09/22/2019 15:58	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000473	0.00303	1	09/22/2019 15:58	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000818	0.00303	1	09/22/2019 15:58	WG1350161
Tetrachloroethene	U		0.000849	0.00303	1	09/22/2019 15:58	WG1350161
Toluene	0.0381		0.00152	0.00606	1	09/22/2019 15:58	WG1350161
1,2,3-Trichlorobenzene	U		0.000758	0.00303	1	09/22/2019 15:58	WG1350161
1,2,4-Trichlorobenzene	U		0.00584	0.0152	1	09/22/2019 15:58	WG1350161
1,1,1-Trichloroethane	U		0.000333	0.00303	1	09/22/2019 15:58	WG1350161
1,1,2-Trichloroethane	U		0.00107	0.00303	1	09/22/2019 15:58	WG1350161
Trichloroethene	U		0.000485	0.00121	1	09/22/2019 15:58	WG1350161
Trichlorofluoromethane	U		0.000606	0.00303	1	09/22/2019 15:58	WG1350161
1,2,3-Trichloropropane	U		0.00618	0.0152	1	09/22/2019 15:58	WG1350161
1,2,4-Trimethylbenzene	U		0.00141	0.00606	1	09/22/2019 15:58	WG1350161
1,2,3-Trimethylbenzene	U		0.00139	0.00606	1	09/22/2019 15:58	WG1350161
1,3,5-Trimethylbenzene	U		0.00131	0.00606	1	09/22/2019 15:58	WG1350161
Vinyl acetate	U		0.00427	0.0152	1	09/22/2019 15:58	WG1350161
Vinyl chloride	U		0.000828	0.00303	1	09/22/2019 15:58	WG1350161
Xylenes, Total	U		0.00580	0.00788	1	09/22/2019 15:58	WG1350161
(S) Toluene-d8	*104*			*75.0-131*		*09/22/2019 15:58*	WG1350161
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*09/22/2019 15:58*	WG1350161
(S) 1,2-Dichloroethane-d4	*96.7*			*70.0-130*		*09/22/2019 15:58*	WG1350161

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.3		1	09/24/2019 11:40	WG1350796

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0472 U	~~B~~	0.0173	0.0315	1	09/22/2019 16:18	WG1350161
Acrylonitrile	U		0.00240	0.0158	1	09/22/2019 16:18	WG1350161
Benzene	0.00557		0.000505	0.00126	1	09/22/2019 16:18	WG1350161
Bromobenzene	U		0.00132	0.0158	1	09/22/2019 16:18	WG1350161
Bromodichloromethane	U		0.000994	0.00315	1	09/22/2019 16:18	WG1350161
Bromochloromethane	U		0.00143	0.00631	1	09/22/2019 16:18	WG1350161
Bromoform	U		0.00754	0.0315	1	09/22/2019 16:18	WG1350161
Bromomethane	U		0.00467	0.0158	1	09/22/2019 16:18	WG1350161
n-Butylbenzene	U		0.00484	0.0158	1	09/22/2019 16:18	WG1350161
sec-Butylbenzene	U		0.00319	0.0158	1	09/22/2019 16:18	WG1350161
tert-Butylbenzene	U		0.00196	0.00631	1	09/22/2019 16:18	WG1350161
Carbon disulfide	U		0.00512	0.0158	1	09/22/2019 16:18	WG1350161
Carbon tetrachloride	U		0.00136	0.00631	1	09/22/2019 16:18	WG1350161
Chlorobenzene	U		0.000723	0.00315	1	09/22/2019 16:18	WG1350161
Chlorodibromomethane	U		0.000568	0.00315	1	09/22/2019 16:18	WG1350161
Chloroethane	U		0.00136	0.00631	1	09/22/2019 16:18	WG1350161
Chloroform	0.000686 U	~~B J~~	0.000523	0.00315	1	09/22/2019 16:18	WG1350161
Chloromethane	U		0.00175	0.0158	1	09/22/2019 16:18	WG1350161
2-Chlorotoluene	U		0.00116	0.00315	1	09/22/2019 16:18	WG1350161
4-Chlorotoluene	U		0.00143	0.00631	1	09/22/2019 16:18	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00643	0.0315	1	09/22/2019 16:18	WG1350161
1,2-Dibromoethane	U		0.000662	0.00315	1	09/22/2019 16:18	WG1350161
Dibromomethane	U		0.00126	0.00631	1	09/22/2019 16:18	WG1350161
1,2-Dichlorobenzene	U		0.00183	0.00631	1	09/22/2019 16:18	WG1350161
1,3-Dichlorobenzene	U		0.00214	0.00631	1	09/22/2019 16:18	WG1350161
1,4-Dichlorobenzene	U		0.00248	0.00631	1	09/22/2019 16:18	WG1350161
Dichlorodifluoromethane	U		0.00103	0.00315	1	09/22/2019 16:18	WG1350161
1,1-Dichloroethane	U		0.000725	0.00315	1	09/22/2019 16:18	WG1350161
1,2-Dichloroethane	0.0128		0.000599	0.00315	1	09/22/2019 16:18	WG1350161
1,1-Dichloroethene	U		0.000631	0.00315	1	09/22/2019 16:18	WG1350161
cis-1,2-Dichloroethene	0.0154		0.000870	0.00315	1	09/22/2019 16:18	WG1350161
trans-1,2-Dichloroethene	U		0.00180	0.00631	1	09/22/2019 16:18	WG1350161
1,2-Dichloropropane	0.00537 J	J	0.00160	0.00631	1	09/22/2019 16:18	WG1350161
1,1-Dichloropropene	U		0.000883	0.00315	1	09/22/2019 16:18	WG1350161
1,3-Dichloropropane	U		0.00221	0.00631	1	09/22/2019 16:18	WG1350161
cis-1,3-Dichloropropene	U		0.000855	0.00315	1	09/22/2019 16:18	WG1350161
trans-1,3-Dichloropropene	U		0.00193	0.00631	1	09/22/2019 16:18	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00177	0.00631	1	09/22/2019 16:18	WG1350161
2,2-Dichloropropane	U		0.00100	0.00315	1	09/22/2019 16:18	WG1350161
Di-isopropyl ether	U		0.000441	0.00126	1	09/22/2019 16:18	WG1350161
Ethylbenzene	U		0.000668	0.00315	1	09/22/2019 16:18	WG1350161
Hexachloro-1,3-butadiene	U		0.0160	0.0315	1	09/22/2019 16:18	WG1350161
2-Hexanone	U		0.0126	0.0315	1	09/22/2019 16:18	WG1350161
n-Hexane	U		0.00134	0.00631	1	09/22/2019 16:18	WG1350161
Iodomethane	U		0.00763	0.0158	1	09/22/2019 16:18	WG1350161
Isopropylbenzene	U		0.00109	0.00315	1	09/22/2019 16:18	WG1350161
p-Isopropyltoluene	U		0.00294	0.00631	1	09/22/2019 16:18	WG1350161
2-Butanone (MEK)	U		0.0158	0.0315	1	09/22/2019 16:18	WG1350161
Methylene Chloride	U		0.00838	0.0315	1	09/22/2019 16:18	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0126	0.0315	1	09/22/2019 16:18	WG1350161

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000372	0.00126	1	09/22/2019 16:18	WG1350161
Naphthalene	U		0.00394	0.0158	1	09/22/2019 16:18	WG1350161
n-Propylbenzene	U		0.00149	0.00631	1	09/22/2019 16:18	WG1350161
Styrene	U		0.00344	0.0158	1	09/22/2019 16:18	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000631	0.00315	1	09/22/2019 16:18	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000492	0.00315	1	09/22/2019 16:18	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000851	0.00315	1	09/22/2019 16:18	WG1350161
Tetrachloroethene	U		0.000883	0.00315	1	09/22/2019 16:18	WG1350161
Toluene	0.0229		0.00158	0.00631	1	09/22/2019 16:18	WG1350161
1,2,3-Trichlorobenzene	U		0.000788	0.00315	1	09/22/2019 16:18	WG1350161
1,2,4-Trichlorobenzene	U		0.00608	0.0158	1	09/22/2019 16:18	WG1350161
1,1,1-Trichloroethane	U		0.000347	0.00315	1	09/22/2019 16:18	WG1350161
1,1,2-Trichloroethane	U		0.00111	0.00315	1	09/22/2019 16:18	WG1350161
Trichloroethene	U		0.000505	0.00126	1	09/22/2019 16:18	WG1350161
Trichlorofluoromethane	U		0.000631	0.00315	1	09/22/2019 16:18	WG1350161
1,2,3-Trichloropropane	U		0.00643	0.0158	1	09/22/2019 16:18	WG1350161
1,2,4-Trimethylbenzene	U		0.00146	0.00631	1	09/22/2019 16:18	WG1350161
1,2,3-Trimethylbenzene	U		0.00145	0.00631	1	09/22/2019 16:18	WG1350161
1,3,5-Trimethylbenzene	U		0.00136	0.00631	1	09/22/2019 16:18	WG1350161
Vinyl acetate	U		0.00444	0.0158	1	09/22/2019 16:18	WG1350161
Vinyl chloride	U		0.000861	0.00315	1	09/22/2019 16:18	WG1350161
Xylenes, Total	U		0.00603	0.00820	1	09/22/2019 16:18	WG1350161
(S) Toluene-d8	*103*			*75.0-131*		*09/22/2019 16:18*	WG1350161
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/22/2019 16:18*	WG1350161
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/22/2019 16:18*	WG1350161

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.9		1	09/24/2019 11:40	WG1350796

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0229 U	~~B J~~	0.0163	0.0298	1	09/22/2019 18:01	WG1350161
Acrylonitrile	U		0.00226	0.0149	1	09/22/2019 18:01	WG1350161
Benzene	U		0.000477	0.00119	1	09/22/2019 18:01	WG1350161
Bromobenzene	U		0.00125	0.0149	1	09/22/2019 18:01	WG1350161
Bromodichloromethane	U		0.000939	0.00298	1	09/22/2019 18:01	WG1350161
Bromochloromethane	U		0.00135	0.00596	1	09/22/2019 18:01	WG1350161
Bromoform	U		0.00713	0.0298	1	09/22/2019 18:01	WG1350161
Bromomethane	U		0.00441	0.0149	1	09/22/2019 18:01	WG1350161
n-Butylbenzene	U		0.00458	0.0149	1	09/22/2019 18:01	WG1350161
sec-Butylbenzene	U		0.00302	0.0149	1	09/22/2019 18:01	WG1350161
tert-Butylbenzene	U		0.00185	0.00596	1	09/22/2019 18:01	WG1350161
Carbon disulfide	U		0.00484	0.0149	1	09/22/2019 18:01	WG1350161
Carbon tetrachloride	U		0.00129	0.00596	1	09/22/2019 18:01	WG1350161
Chlorobenzene	U		0.000683	0.00298	1	09/22/2019 18:01	WG1350161
Chlorodibromomethane	U		0.000536	0.00298	1	09/22/2019 18:01	WG1350161
Chloroethane	U		0.00129	0.00596	1	09/22/2019 18:01	WG1350161
Chloroform	0.00111 U	~~B J~~	0.000495	0.00298	1	09/22/2019 18:01	WG1350161
Chloromethane	U		0.00166	0.0149	1	09/22/2019 18:01	WG1350161
2-Chlorotoluene	U		0.00110	0.00298	1	09/22/2019 18:01	WG1350161
4-Chlorotoluene	U		0.00135	0.00596	1	09/22/2019 18:01	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00608	0.0298	1	09/22/2019 18:01	WG1350161
1,2-Dibromoethane	U		0.000626	0.00298	1	09/22/2019 18:01	WG1350161
Dibromomethane	U		0.00119	0.00596	1	09/22/2019 18:01	WG1350161
1,2-Dichlorobenzene	U		0.00173	0.00596	1	09/22/2019 18:01	WG1350161
1,3-Dichlorobenzene	U		0.00203	0.00596	1	09/22/2019 18:01	WG1350161
1,4-Dichlorobenzene	U		0.00235	0.00596	1	09/22/2019 18:01	WG1350161
Dichlorodifluoromethane	U		0.000975	0.00298	1	09/22/2019 18:01	WG1350161
1,1-Dichloroethane	U		0.000685	0.00298	1	09/22/2019 18:01	WG1350161
1,2-Dichloroethane	U		0.000566	0.00298	1	09/22/2019 18:01	WG1350161
1,1-Dichloroethene	U		0.000596	0.00298	1	09/22/2019 18:01	WG1350161
cis-1,2-Dichloroethene	U		0.000822	0.00298	1	09/22/2019 18:01	WG1350161
trans-1,2-Dichloroethene	U		0.00170	0.00596	1	09/22/2019 18:01	WG1350161
1,2-Dichloropropane	U		0.00151	0.00596	1	09/22/2019 18:01	WG1350161
1,1-Dichloropropene	U		0.000834	0.00298	1	09/22/2019 18:01	WG1350161
1,3-Dichloropropane	U		0.00209	0.00596	1	09/22/2019 18:01	WG1350161
cis-1,3-Dichloropropene	U		0.000808	0.00298	1	09/22/2019 18:01	WG1350161
trans-1,3-Dichloropropene	U		0.00182	0.00596	1	09/22/2019 18:01	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00167	0.00596	1	09/22/2019 18:01	WG1350161
2,2-Dichloropropane	U		0.000945	0.00298	1	09/22/2019 18:01	WG1350161
Di-isopropyl ether	U		0.000417	0.00119	1	09/22/2019 18:01	WG1350161
Ethylbenzene	U		0.000632	0.00298	1	09/22/2019 18:01	WG1350161
Hexachloro-1,3-butadiene	U		0.0151	0.0298	1	09/22/2019 18:01	WG1350161
2-Hexanone	U		0.0119	0.0298	1	09/22/2019 18:01	WG1350161
n-Hexane	U		0.00126	0.00596	1	09/22/2019 18:01	WG1350161
Iodomethane	U		0.00721	0.0149	1	09/22/2019 18:01	WG1350161
Isopropylbenzene	U		0.00103	0.00298	1	09/22/2019 18:01	WG1350161
p-Isopropyltoluene	U		0.00278	0.00596	1	09/22/2019 18:01	WG1350161
2-Butanone (MEK)	U		0.0149	0.0298	1	09/22/2019 18:01	WG1350161
Methylene Chloride	U		0.00791	0.0298	1	09/22/2019 18:01	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	09/22/2019 18:01	WG1350161

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000352	0.00119	1	09/22/2019 18:01	WG1350161
Naphthalene	U		0.00372	0.0149	1	09/22/2019 18:01	WG1350161
n-Propylbenzene	U		0.00141	0.00596	1	09/22/2019 18:01	WG1350161
Styrene	U		0.00325	0.0149	1	09/22/2019 18:01	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000596	0.00298	1	09/22/2019 18:01	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000465	0.00298	1	09/22/2019 18:01	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000804	0.00298	1	09/22/2019 18:01	WG1350161
Tetrachloroethene	U		0.000834	0.00298	1	09/22/2019 18:01	WG1350161
Toluene	U		0.00149	0.00596	1	09/22/2019 18:01	WG1350161
1,2,3-Trichlorobenzene	U		0.000745	0.00298	1	09/22/2019 18:01	WG1350161
1,2,4-Trichlorobenzene	U		0.00574	0.0149	1	09/22/2019 18:01	WG1350161
1,1,1-Trichloroethane	U		0.000328	0.00298	1	09/22/2019 18:01	WG1350161
1,1,2-Trichloroethane	U		0.00105	0.00298	1	09/22/2019 18:01	WG1350161
Trichloroethene	U		0.000477	0.00119	1	09/22/2019 18:01	WG1350161
Trichlorofluoromethane	U		0.000596	0.00298	1	09/22/2019 18:01	WG1350161
1,2,3-Trichloropropane	U		0.00608	0.0149	1	09/22/2019 18:01	WG1350161
1,2,4-Trimethylbenzene	U		0.00138	0.00596	1	09/22/2019 18:01	WG1350161
1,2,3-Trimethylbenzene	U		0.00137	0.00596	1	09/22/2019 18:01	WG1350161
1,3,5-Trimethylbenzene	U		0.00129	0.00596	1	09/22/2019 18:01	WG1350161
Vinyl acetate	U		0.00420	0.0149	1	09/22/2019 18:01	WG1350161
Vinyl chloride	U		0.000814	0.00298	1	09/22/2019 18:01	WG1350161
Xylenes, Total	U		0.00570	0.00775	1	09/22/2019 18:01	WG1350161
(S) Toluene-d8	*106*			*75.0-131*		*09/22/2019 18:01*	WG1350161
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/22/2019 18:01*	WG1350161
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/22/2019 18:01*	WG1350161

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.1		1	09/24/2019 11:40	WG1350796

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0295	U ~~B~~	0.0152	0.0278	1	09/22/2019 18:21	WG1350161
Acrylonitrile	U		0.00211	0.0139	1	09/22/2019 18:21	WG1350161
Benzene	U		0.000444	0.00111	1	09/22/2019 18:21	WG1350161
Bromobenzene	U		0.00117	0.0139	1	09/22/2019 18:21	WG1350161
Bromodichloromethane	U		0.000875	0.00278	1	09/22/2019 18:21	WG1350161
Bromochloromethane	U		0.00125	0.00555	1	09/22/2019 18:21	WG1350161
Bromoform	U		0.00664	0.0278	1	09/22/2019 18:21	WG1350161
Bromomethane	U		0.00411	0.0139	1	09/22/2019 18:21	WG1350161
n-Butylbenzene	U		0.00426	0.0139	1	09/22/2019 18:21	WG1350161
sec-Butylbenzene	U		0.00281	0.0139	1	09/22/2019 18:21	WG1350161
tert-Butylbenzene	U		0.00172	0.00555	1	09/22/2019 18:21	WG1350161
Carbon disulfide	U		0.00451	0.0139	1	09/22/2019 18:21	WG1350161
Carbon tetrachloride	U		0.00120	0.00555	1	09/22/2019 18:21	WG1350161
Chlorobenzene	U		0.000636	0.00278	1	09/22/2019 18:21	WG1350161
Chlorodibromomethane	U		0.000500	0.00278	1	09/22/2019 18:21	WG1350161
Chloroethane	U		0.00120	0.00555	1	09/22/2019 18:21	WG1350161
Chloroform	0.000645	U ~~B J~~	0.000461	0.00278	1	09/22/2019 18:21	WG1350161
Chloromethane	U		0.00154	0.0139	1	09/22/2019 18:21	WG1350161
2-Chlorotoluene	U		0.00102	0.00278	1	09/22/2019 18:21	WG1350161
4-Chlorotoluene	U		0.00125	0.00555	1	09/22/2019 18:21	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00566	0.0278	1	09/22/2019 18:21	WG1350161
1,2-Dibromoethane	U		0.000583	0.00278	1	09/22/2019 18:21	WG1350161
Dibromomethane	U		0.00111	0.00555	1	09/22/2019 18:21	WG1350161
1,2-Dichlorobenzene	U		0.00161	0.00555	1	09/22/2019 18:21	WG1350161
1,3-Dichlorobenzene	U		0.00189	0.00555	1	09/22/2019 18:21	WG1350161
1,4-Dichlorobenzene	U		0.00219	0.00555	1	09/22/2019 18:21	WG1350161
Dichlorodifluoromethane	U		0.000908	0.00278	1	09/22/2019 18:21	WG1350161
1,1-Dichloroethane	U		0.000638	0.00278	1	09/22/2019 18:21	WG1350161
1,2-Dichloroethane	U		0.000527	0.00278	1	09/22/2019 18:21	WG1350161
1,1-Dichloroethene	U		0.000555	0.00278	1	09/22/2019 18:21	WG1350161
cis-1,2-Dichloroethene	0.00184	J J	0.000766	0.00278	1	09/22/2019 18:21	WG1350161
trans-1,2-Dichloroethene	U		0.00159	0.00555	1	09/22/2019 18:21	WG1350161
1,2-Dichloropropane	U		0.00141	0.00555	1	09/22/2019 18:21	WG1350161
1,1-Dichloropropene	U		0.000777	0.00278	1	09/22/2019 18:21	WG1350161
1,3-Dichloropropane	U		0.00194	0.00555	1	09/22/2019 18:21	WG1350161
cis-1,3-Dichloropropene	U		0.000753	0.00278	1	09/22/2019 18:21	WG1350161
trans-1,3-Dichloropropene	U		0.00170	0.00555	1	09/22/2019 18:21	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00155	0.00555	1	09/22/2019 18:21	WG1350161
2,2-Dichloropropane	U		0.000880	0.00278	1	09/22/2019 18:21	WG1350161
Di-isopropyl ether	U		0.000389	0.00111	1	09/22/2019 18:21	WG1350161
Ethylbenzene	0.00151	J J	0.000588	0.00278	1	09/22/2019 18:21	WG1350161
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	09/22/2019 18:21	WG1350161
2-Hexanone	U		0.0111	0.0278	1	09/22/2019 18:21	WG1350161
n-Hexane	0.00152	J J	0.00118	0.00555	1	09/22/2019 18:21	WG1350161
Iodomethane	U		0.00672	0.0139	1	09/22/2019 18:21	WG1350161
Isopropylbenzene	U		0.000958	0.00278	1	09/22/2019 18:21	WG1350161
p-Isopropyltoluene	U		0.00259	0.00555	1	09/22/2019 18:21	WG1350161
2-Butanone (MEK)	U		0.0139	0.0278	1	09/22/2019 18:21	WG1350161
Methylene Chloride	U		0.00737	0.0278	1	09/22/2019 18:21	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	09/22/2019 18:21	WG1350161

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	09/22/2019 18:21	WG1350161
Naphthalene	U		0.00346	0.0139	1	09/22/2019 18:21	WG1350161
n-Propylbenzene	U		0.00131	0.00555	1	09/22/2019 18:21	WG1350161
Styrene	U		0.00303	0.0139	1	09/22/2019 18:21	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000555	0.00278	1	09/22/2019 18:21	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000433	0.00278	1	09/22/2019 18:21	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000749	0.00278	1	09/22/2019 18:21	WG1350161
Tetrachloroethene	U		0.000777	0.00278	1	09/22/2019 18:21	WG1350161
Toluene	0.0257		0.00139	0.00555	1	09/22/2019 18:21	WG1350161
1,2,3-Trichlorobenzene	U		0.000694	0.00278	1	09/22/2019 18:21	WG1350161
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	09/22/2019 18:21	WG1350161
1,1,1-Trichloroethane	U		0.000305	0.00278	1	09/22/2019 18:21	WG1350161
1,1,2-Trichloroethane	U		0.000980	0.00278	1	09/22/2019 18:21	WG1350161
Trichloroethene	U		0.000444	0.00111	1	09/22/2019 18:21	WG1350161
Trichlorofluoromethane	U		0.000555	0.00278	1	09/22/2019 18:21	WG1350161
1,2,3-Trichloropropane	U		0.00566	0.0139	1	09/22/2019 18:21	WG1350161
1,2,4-Trimethylbenzene	U		0.00129	0.00555	1	09/22/2019 18:21	WG1350161
1,2,3-Trimethylbenzene	U		0.00128	0.00555	1	09/22/2019 18:21	WG1350161
1,3,5-Trimethylbenzene	U		0.00120	0.00555	1	09/22/2019 18:21	WG1350161
Vinyl acetate	U		0.00391	0.0139	1	09/22/2019 18:21	WG1350161
Vinyl chloride	U		0.000758	0.00278	1	09/22/2019 18:21	WG1350161
Xylenes, Total	0.00583 J	J	0.00531	0.00722	1	09/22/2019 18:21	WG1350161
(S) Toluene-d8	*107*			*75.0-131*		*09/22/2019 18:21*	WG1350161
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/22/2019 18:21*	WG1350161
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/22/2019 18:21*	WG1350161

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MW-309-60
Collected date/time: 09/19/19 11:55

SAMPLE RESULTS - 13

L1141899

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.1		1	09/24/2019 15:45	WG1351165

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0399	U ~~B~~	0.0153	0.0279	1.04	09/22/2019 18:41	WG1350161
Acrylonitrile	U		0.00213	0.0140	1.04	09/22/2019 18:41	WG1350161
Benzene	U		0.000447	0.00112	1.04	09/22/2019 18:41	WG1350161
Bromobenzene	U		0.00117	0.0140	1.04	09/22/2019 18:41	WG1350161
Bromodichloromethane	U		0.000881	0.00279	1.04	09/22/2019 18:41	WG1350161
Bromochloromethane	U		0.00127	0.00559	1.04	09/22/2019 18:41	WG1350161
Bromoform	U		0.00668	0.0279	1.04	09/22/2019 18:41	WG1350161
Bromomethane	U		0.00414	0.0140	1.04	09/22/2019 18:41	WG1350161
n-Butylbenzene	U		0.00429	0.0140	1.04	09/22/2019 18:41	WG1350161
sec-Butylbenzene	U		0.00283	0.0140	1.04	09/22/2019 18:41	WG1350161
tert-Butylbenzene	U		0.00173	0.00559	1.04	09/22/2019 18:41	WG1350161
Carbon disulfide	U		0.00453	0.0140	1.04	09/22/2019 18:41	WG1350161
Carbon tetrachloride	U		0.00120	0.00559	1.04	09/22/2019 18:41	WG1350161
Chlorobenzene	U		0.000640	0.00279	1.04	09/22/2019 18:41	WG1350161
Chlorodibromomethane	U		0.000503	0.00279	1.04	09/22/2019 18:41	WG1350161
Chloroethane	U		0.00120	0.00559	1.04	09/22/2019 18:41	WG1350161
Chloroform	0.000714	U ~~B J~~	0.000464	0.00279	1.04	09/22/2019 18:41	WG1350161
Chloromethane	U		0.00155	0.0140	1.04	09/22/2019 18:41	WG1350161
2-Chlorotoluene	U		0.00103	0.00279	1.04	09/22/2019 18:41	WG1350161
4-Chlorotoluene	U		0.00127	0.00559	1.04	09/22/2019 18:41	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00569	0.0279	1.04	09/22/2019 18:41	WG1350161
1,2-Dibromoethane	U		0.000587	0.00279	1.04	09/22/2019 18:41	WG1350161
Dibromomethane	U		0.00112	0.00559	1.04	09/22/2019 18:41	WG1350161
1,2-Dichlorobenzene	U		0.00162	0.00559	1.04	09/22/2019 18:41	WG1350161
1,3-Dichlorobenzene	U		0.00190	0.00559	1.04	09/22/2019 18:41	WG1350161
1,4-Dichlorobenzene	U		0.00220	0.00559	1.04	09/22/2019 18:41	WG1350161
Dichlorodifluoromethane	U		0.000914	0.00279	1.04	09/22/2019 18:41	WG1350161
1,1-Dichloroethane	U		0.000642	0.00279	1.04	09/22/2019 18:41	WG1350161
1,2-Dichloroethane	U		0.000531	0.00279	1.04	09/22/2019 18:41	WG1350161
1,1-Dichloroethene	U		0.000559	0.00279	1.04	09/22/2019 18:41	WG1350161
cis-1,2-Dichloroethene	U		0.000771	0.00279	1.04	09/22/2019 18:41	WG1350161
trans-1,2-Dichloroethene	U		0.00160	0.00559	1.04	09/22/2019 18:41	WG1350161
1,2-Dichloropropane	U		0.00142	0.00559	1.04	09/22/2019 18:41	WG1350161
1,1-Dichloropropene	U		0.000782	0.00279	1.04	09/22/2019 18:41	WG1350161
1,3-Dichloropropane	U		0.00196	0.00559	1.04	09/22/2019 18:41	WG1350161
cis-1,3-Dichloropropene	U		0.000757	0.00279	1.04	09/22/2019 18:41	WG1350161
trans-1,3-Dichloropropene	U		0.00171	0.00559	1.04	09/22/2019 18:41	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00157	0.00559	1.04	09/22/2019 18:41	WG1350161
2,2-Dichloropropane	U		0.000886	0.00279	1.04	09/22/2019 18:41	WG1350161
Di-isopropyl ether	U		0.000391	0.00112	1.04	09/22/2019 18:41	WG1350161
Ethylbenzene	U		0.000592	0.00279	1.04	09/22/2019 18:41	WG1350161
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1.04	09/22/2019 18:41	WG1350161
2-Hexanone	U		0.0112	0.0279	1.04	09/22/2019 18:41	WG1350161
n-Hexane	0.00377	J J	0.00118	0.00559	1.04	09/22/2019 18:41	WG1350161
Iodomethane	U		0.00676	0.0140	1.04	09/22/2019 18:41	WG1350161
Isopropylbenzene	U		0.000965	0.00279	1.04	09/22/2019 18:41	WG1350161
p-Isopropyltoluene	U		0.00260	0.00559	1.04	09/22/2019 18:41	WG1350161
2-Butanone (MEK)	U		0.0140	0.0279	1.04	09/22/2019 18:41	WG1350161
Methylene Chloride	U		0.00741	0.0279	1.04	09/22/2019 18:41	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1.04	09/22/2019 18:41	WG1350161

JC 10/24/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000330	0.00112	1.04	09/22/2019 18:41	WG1350161
Naphthalene	U		0.00348	0.0140	1.04	09/22/2019 18:41	WG1350161
n-Propylbenzene	U		0.00132	0.00559	1.04	09/22/2019 18:41	WG1350161
Styrene	U		0.00305	0.0140	1.04	09/22/2019 18:41	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000559	0.00279	1.04	09/22/2019 18:41	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000436	0.00279	1.04	09/22/2019 18:41	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00279	1.04	09/22/2019 18:41	WG1350161
Tetrachloroethene	U		0.000782	0.00279	1.04	09/22/2019 18:41	WG1350161
Toluene	0.0170		0.00140	0.00559	1.04	09/22/2019 18:41	WG1350161
1,2,3-Trichlorobenzene	U		0.000698	0.00279	1.04	09/22/2019 18:41	WG1350161
1,2,4-Trichlorobenzene	U		0.00538	0.0140	1.04	09/22/2019 18:41	WG1350161
1,1,1-Trichloroethane	U		0.000307	0.00279	1.04	09/22/2019 18:41	WG1350161
1,1,2-Trichloroethane	U		0.000986	0.00279	1.04	09/22/2019 18:41	WG1350161
Trichloroethene	U		0.000447	0.00112	1.04	09/22/2019 18:41	WG1350161
Trichlorofluoromethane	U		0.000559	0.00279	1.04	09/22/2019 18:41	WG1350161
1,2,3-Trichloropropane	U		0.00569	0.0140	1.04	09/22/2019 18:41	WG1350161
1,2,4-Trimethylbenzene	U		0.00130	0.00559	1.04	09/22/2019 18:41	WG1350161
1,2,3-Trimethylbenzene	U		0.00129	0.00559	1.04	09/22/2019 18:41	WG1350161
1,3,5-Trimethylbenzene	U		0.00120	0.00559	1.04	09/22/2019 18:41	WG1350161
Vinyl acetate	U		0.00393	0.0140	1.04	09/22/2019 18:41	WG1350161
Vinyl chloride	U		0.000763	0.00279	1.04	09/22/2019 18:41	WG1350161
Xylenes, Total	U		0.00534	0.00726	1.04	09/22/2019 18:41	WG1350161
(S) Toluene-d8	*106*			*75.0-131*		*09/22/2019 18:41*	WG1350161
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/22/2019 18:41*	WG1350161
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/22/2019 18:41*	WG1350161

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.0		1	09/24/2019 15:45	WG1351165

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0571 U	~~B~~	0.0154	0.0281	1	09/22/2019 19:02	WG1350161
Acrylonitrile	U		0.00213	0.0140	1	09/22/2019 19:02	WG1350161
Benzene	U		0.000449	0.00112	1	09/22/2019 19:02	WG1350161
Bromobenzene	U		0.00118	0.0140	1	09/22/2019 19:02	WG1350161
Bromodichloromethane	U		0.000885	0.00281	1	09/22/2019 19:02	WG1350161
Bromochloromethane	U		0.00127	0.00562	1	09/22/2019 19:02	WG1350161
Bromoform	U		0.00672	0.0281	1	09/22/2019 19:02	WG1350161
Bromomethane	U		0.00416	0.0140	1	09/22/2019 19:02	WG1350161
n-Butylbenzene	U		0.00431	0.0140	1	09/22/2019 19:02	WG1350161
sec-Butylbenzene	U		0.00284	0.0140	1	09/22/2019 19:02	WG1350161
tert-Butylbenzene	U		0.00174	0.00562	1	09/22/2019 19:02	WG1350161
Carbon disulfide	U		0.00456	0.0140	1	09/22/2019 19:02	WG1350161
Carbon tetrachloride	U		0.00121	0.00562	1	09/22/2019 19:02	WG1350161
Chlorobenzene	U		0.000644	0.00281	1	09/22/2019 19:02	WG1350161
Chlorodibromomethane	U		0.000505	0.00281	1	09/22/2019 19:02	WG1350161
Chloroethane	U		0.00121	0.00562	1	09/22/2019 19:02	WG1350161
Chloroform	0.000593 U	~~B J~~	0.000466	0.00281	1	09/22/2019 19:02	WG1350161
Chloromethane	U		0.00156	0.0140	1	09/22/2019 19:02	WG1350161
2-Chlorotoluene	U		0.00103	0.00281	1	09/22/2019 19:02	WG1350161
4-Chlorotoluene	U		0.00127	0.00562	1	09/22/2019 19:02	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	09/22/2019 19:02	WG1350161
1,2-Dibromoethane	U		0.000590	0.00281	1	09/22/2019 19:02	WG1350161
Dibromomethane	U		0.00112	0.00562	1	09/22/2019 19:02	WG1350161
1,2-Dichlorobenzene	U		0.00163	0.00562	1	09/22/2019 19:02	WG1350161
1,3-Dichlorobenzene	U		0.00191	0.00562	1	09/22/2019 19:02	WG1350161
1,4-Dichlorobenzene	U		0.00221	0.00562	1	09/22/2019 19:02	WG1350161
Dichlorodifluoromethane	U		0.000919	0.00281	1	09/22/2019 19:02	WG1350161
1,1-Dichloroethane	U		0.000646	0.00281	1	09/22/2019 19:02	WG1350161
1,2-Dichloroethane	U		0.000534	0.00281	1	09/22/2019 19:02	WG1350161
1,1-Dichloroethene	U		0.000562	0.00281	1	09/22/2019 19:02	WG1350161
cis-1,2-Dichloroethene	U		0.000775	0.00281	1	09/22/2019 19:02	WG1350161
trans-1,2-Dichloroethene	U		0.00161	0.00562	1	09/22/2019 19:02	WG1350161
1,2-Dichloropropane	U		0.00143	0.00562	1	09/22/2019 19:02	WG1350161
1,1-Dichloropropene	U		0.000786	0.00281	1	09/22/2019 19:02	WG1350161
1,3-Dichloropropane	U		0.00197	0.00562	1	09/22/2019 19:02	WG1350161
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	09/22/2019 19:02	WG1350161
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	09/22/2019 19:02	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	09/22/2019 19:02	WG1350161
2,2-Dichloropropane	U		0.000891	0.00281	1	09/22/2019 19:02	WG1350161
Di-isopropyl ether	U		0.000393	0.00112	1	09/22/2019 19:02	WG1350161
Ethylbenzene	0.000785 J	J	0.000595	0.00281	1	09/22/2019 19:02	WG1350161
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	09/22/2019 19:02	WG1350161
2-Hexanone	U		0.0112	0.0281	1	09/22/2019 19:02	WG1350161
n-Hexane	0.00641		0.00119	0.00562	1	09/22/2019 19:02	WG1350161
Iodomethane	U		0.00680	0.0140	1	09/22/2019 19:02	WG1350161
Isopropylbenzene	U		0.000969	0.00281	1	09/22/2019 19:02	WG1350161
p-Isopropyltoluene	U		0.00262	0.00562	1	09/22/2019 19:02	WG1350161
2-Butanone (MEK)	U		0.0140	0.0281	1	09/22/2019 19:02	WG1350161
Methylene Chloride	U		0.00746	0.0281	1	09/22/2019 19:02	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	09/22/2019 19:02	WG1350161

JC 10/24/19

MW-309-65

Collected date/time: 09/19/19 12:00

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	09/22/2019 19:02	WG1350161
Naphthalene	U		0.00350	0.0140	1	09/22/2019 19:02	WG1350161
n-Propylbenzene	U		0.00133	0.00562	1	09/22/2019 19:02	WG1350161
Styrene	U		0.00307	0.0140	1	09/22/2019 19:02	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	09/22/2019 19:02	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	09/22/2019 19:02	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	09/22/2019 19:02	WG1350161
Tetrachloroethene	U		0.000786	0.00281	1	09/22/2019 19:02	WG1350161
Toluene	0.0164		0.00140	0.00562	1	09/22/2019 19:02	WG1350161
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	09/22/2019 19:02	WG1350161
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	09/22/2019 19:02	WG1350161
1,1,1-Trichloroethane	U		0.000309	0.00281	1	09/22/2019 19:02	WG1350161
1,1,2-Trichloroethane	U		0.000992	0.00281	1	09/22/2019 19:02	WG1350161
Trichloroethene	U		0.000449	0.00112	1	09/22/2019 19:02	WG1350161
Trichlorofluoromethane	U		0.000562	0.00281	1	09/22/2019 19:02	WG1350161
1,2,3-Trichloropropane	U		0.00573	0.0140	1	09/22/2019 19:02	WG1350161
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	09/22/2019 19:02	WG1350161
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	09/22/2019 19:02	WG1350161
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	09/22/2019 19:02	WG1350161
Vinyl acetate	U		0.00395	0.0140	1	09/22/2019 19:02	WG1350161
Vinyl chloride	U		0.000767	0.00281	1	09/22/2019 19:02	WG1350161
Xylenes, Total	U		0.00537	0.00730	1	09/22/2019 19:02	WG1350161
(S) Toluene-d8	*104*			*75.0-131*		*09/22/2019 19:02*	WG1350161
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/22/2019 19:02*	WG1350161
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/22/2019 19:02*	WG1350161

JC 10/24/19

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.9		1	09/24/2019 15:45	WG1351165

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0391 U	~~B~~	0.0156	0.0284	1	09/22/2019 19:22	WG1350161
Acrylonitrile	U		0.00216	0.0142	1	09/22/2019 19:22	WG1350161
Benzene	U		0.000455	0.00114	1	09/22/2019 19:22	WG1350161
Bromobenzene	U		0.00119	0.0142	1	09/22/2019 19:22	WG1350161
Bromodichloromethane	U		0.000896	0.00284	1	09/22/2019 19:22	WG1350161
Bromochloromethane	U		0.00128	0.00569	1	09/22/2019 19:22	WG1350161
Bromoform	U		0.00680	0.0284	1	09/22/2019 19:22	WG1350161
Bromomethane	U		0.00421	0.0142	1	09/22/2019 19:22	WG1350161
n-Butylbenzene	U		0.00437	0.0142	1	09/22/2019 19:22	WG1350161
sec-Butylbenzene	U		0.00288	0.0142	1	09/22/2019 19:22	WG1350161
tert-Butylbenzene	U		0.00176	0.00569	1	09/22/2019 19:22	WG1350161
Carbon disulfide	U		0.00462	0.0142	1	09/22/2019 19:22	WG1350161
Carbon tetrachloride	U		0.00123	0.00569	1	09/22/2019 19:22	WG1350161
Chlorobenzene	U		0.000652	0.00284	1	09/22/2019 19:22	WG1350161
Chlorodibromomethane	U		0.000512	0.00284	1	09/22/2019 19:22	WG1350161
Chloroethane	U		0.00123	0.00569	1	09/22/2019 19:22	WG1350161
Chloroform	0.000674 U	~~B J~~	0.000472	0.00284	1	09/22/2019 19:22	WG1350161
Chloromethane	U		0.00158	0.0142	1	09/22/2019 19:22	WG1350161
2-Chlorotoluene	U		0.00105	0.00284	1	09/22/2019 19:22	WG1350161
4-Chlorotoluene	U		0.00128	0.00569	1	09/22/2019 19:22	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00580	0.0284	1	09/22/2019 19:22	WG1350161
1,2-Dibromoethane	U		0.000597	0.00284	1	09/22/2019 19:22	WG1350161
Dibromomethane	U		0.00114	0.00569	1	09/22/2019 19:22	WG1350161
1,2-Dichlorobenzene	U		0.00165	0.00569	1	09/22/2019 19:22	WG1350161
1,3-Dichlorobenzene	U		0.00193	0.00569	1	09/22/2019 19:22	WG1350161
1,4-Dichlorobenzene	U		0.00224	0.00569	1	09/22/2019 19:22	WG1350161
Dichlorodifluoromethane	U		0.000930	0.00284	1	09/22/2019 19:22	WG1350161
1,1-Dichloroethane	U		0.000654	0.00284	1	09/22/2019 19:22	WG1350161
1,2-Dichloroethane	U		0.000540	0.00284	1	09/22/2019 19:22	WG1350161
1,1-Dichloroethene	U		0.000569	0.00284	1	09/22/2019 19:22	WG1350161
cis-1,2-Dichloroethene	U		0.000785	0.00284	1	09/22/2019 19:22	WG1350161
trans-1,2-Dichloroethene	U		0.00163	0.00569	1	09/22/2019 19:22	WG1350161
1,2-Dichloropropane	U		0.00144	0.00569	1	09/22/2019 19:22	WG1350161
1,1-Dichloropropene	U		0.000796	0.00284	1	09/22/2019 19:22	WG1350161
1,3-Dichloropropane	U		0.00199	0.00569	1	09/22/2019 19:22	WG1350161
cis-1,3-Dichloropropene	U		0.000771	0.00284	1	09/22/2019 19:22	WG1350161
trans-1,3-Dichloropropene	U		0.00174	0.00569	1	09/22/2019 19:22	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00159	0.00569	1	09/22/2019 19:22	WG1350161
2,2-Dichloropropane	U		0.000902	0.00284	1	09/22/2019 19:22	WG1350161
Di-isopropyl ether	U		0.000398	0.00114	1	09/22/2019 19:22	WG1350161
Ethylbenzene	0.000668 J	J	0.000603	0.00284	1	09/22/2019 19:22	WG1350161
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	09/22/2019 19:22	WG1350161
2-Hexanone	U		0.0114	0.0284	1	09/22/2019 19:22	WG1350161
n-Hexane	U		0.00121	0.00569	1	09/22/2019 19:22	WG1350161
Iodomethane	U		0.00688	0.0142	1	09/22/2019 19:22	WG1350161
Isopropylbenzene	U		0.000981	0.00284	1	09/22/2019 19:22	WG1350161
p-Isopropyltoluene	U		0.00265	0.00569	1	09/22/2019 19:22	WG1350161
2-Butanone (MEK)	U		0.0142	0.0284	1	09/22/2019 19:22	WG1350161
Methylene Chloride	U		0.00755	0.0284	1	09/22/2019 19:22	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0284	1	09/22/2019 19:22	WG1350161

JC 10/24/19

SAMPLE RESULTS - 15

L1141899

MW-309-70

Collected date/time: 09/19/19 12:05

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000335	0.00114	1	09/22/2019 19:22	WG1350161
Naphthalene	U		0.00355	0.0142	1	09/22/2019 19:22	WG1350161
n-Propylbenzene	U		0.00134	0.00569	1	09/22/2019 19:22	WG1350161
Styrene	U		0.00310	0.0142	1	09/22/2019 19:22	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000569	0.00284	1	09/22/2019 19:22	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000443	0.00284	1	09/22/2019 19:22	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000768	0.00284	1	09/22/2019 19:22	WG1350161
Tetrachloroethene	U		0.000796	0.00284	1	09/22/2019 19:22	WG1350161
Toluene	0.0129		0.00142	0.00569	1	09/22/2019 19:22	WG1350161
1,2,3-Trichlorobenzene	U		0.000711	0.00284	1	09/22/2019 19:22	WG1350161
1,2,4-Trichlorobenzene	U		0.00548	0.0142	1	09/22/2019 19:22	WG1350161
1,1,1-Trichloroethane	U		0.000313	0.00284	1	09/22/2019 19:22	WG1350161
1,1,2-Trichloroethane	U		0.00100	0.00284	1	09/22/2019 19:22	WG1350161
Trichloroethene	U		0.000455	0.00114	1	09/22/2019 19:22	WG1350161
Trichlorofluoromethane	U		0.000569	0.00284	1	09/22/2019 19:22	WG1350161
1,2,3-Trichloropropane	U		0.00580	0.0142	1	09/22/2019 19:22	WG1350161
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	09/22/2019 19:22	WG1350161
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	09/22/2019 19:22	WG1350161
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	09/22/2019 19:22	WG1350161
Vinyl acetate	U		0.00400	0.0142	1	09/22/2019 19:22	WG1350161
Vinyl chloride	U		0.000777	0.00284	1	09/22/2019 19:22	WG1350161
Xylenes, Total	U		0.00544	0.00739	1	09/22/2019 19:22	WG1350161
(S) Toluene-d8	*106*			*75.0-131*		*09/22/2019 19:22*	WG1350161
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/22/2019 19:22*	WG1350161
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/22/2019 19:22*	WG1350161

JC 10/24/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.5		1	09/24/2019 15:45	WG1351165

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0493 U	~~B~~	0.0148	0.0270	1	09/22/2019 19:43	WG1350161
Acrylonitrile	U		0.00205	0.0135	1	09/22/2019 19:43	WG1350161
Benzene	U		0.000432	0.00108	1	09/22/2019 19:43	WG1350161
Bromobenzene	U		0.00113	0.0135	1	09/22/2019 19:43	WG1350161
Bromodichloromethane	U		0.000852	0.00270	1	09/22/2019 19:43	WG1350161
Bromochloromethane	U		0.00122	0.00540	1	09/22/2019 19:43	WG1350161
Bromoform	U		0.00646	0.0270	1	09/22/2019 19:43	WG1350161
Bromomethane	U		0.00400	0.0135	1	09/22/2019 19:43	WG1350161
n-Butylbenzene	U		0.00415	0.0135	1	09/22/2019 19:43	WG1350161
sec-Butylbenzene	U		0.00273	0.0135	1	09/22/2019 19:43	WG1350161
tert-Butylbenzene	U		0.00168	0.00540	1	09/22/2019 19:43	WG1350161
Carbon disulfide	U		0.00439	0.0135	1	09/22/2019 19:43	WG1350161
Carbon tetrachloride	U		0.00117	0.00540	1	09/22/2019 19:43	WG1350161
Chlorobenzene	U		0.000619	0.00270	1	09/22/2019 19:43	WG1350161
Chlorodibromomethane	U		0.000486	0.00270	1	09/22/2019 19:43	WG1350161
Chloroethane	U		0.00117	0.00540	1	09/22/2019 19:43	WG1350161
Chloroform	U		0.000449	0.00270	1	09/22/2019 19:43	WG1350161
Chloromethane	U		0.00150	0.0135	1	09/22/2019 19:43	WG1350161
2-Chlorotoluene	U		0.000994	0.00270	1	09/22/2019 19:43	WG1350161
4-Chlorotoluene	U		0.00122	0.00540	1	09/22/2019 19:43	WG1350161
1,2-Dibromo-3-Chloropropane	U		0.00551	0.0270	1	09/22/2019 19:43	WG1350161
1,2-Dibromoethane	U		0.000567	0.00270	1	09/22/2019 19:43	WG1350161
Dibromomethane	U		0.00108	0.00540	1	09/22/2019 19:43	WG1350161
1,2-Dichlorobenzene	U		0.00157	0.00540	1	09/22/2019 19:43	WG1350161
1,3-Dichlorobenzene	U		0.00184	0.00540	1	09/22/2019 19:43	WG1350161
1,4-Dichlorobenzene	U		0.00213	0.00540	1	09/22/2019 19:43	WG1350161
Dichlorodifluoromethane	U		0.000884	0.00270	1	09/22/2019 19:43	WG1350161
1,1-Dichloroethane	U		0.000621	0.00270	1	09/22/2019 19:43	WG1350161
1,2-Dichloroethane	U		0.000513	0.00270	1	09/22/2019 19:43	WG1350161
1,1-Dichloroethene	U		0.000540	0.00270	1	09/22/2019 19:43	WG1350161
cis-1,2-Dichloroethene	U		0.000746	0.00270	1	09/22/2019 19:43	WG1350161
trans-1,2-Dichloroethene	U		0.00155	0.00540	1	09/22/2019 19:43	WG1350161
1,2-Dichloropropane	U		0.00137	0.00540	1	09/22/2019 19:43	WG1350161
1,1-Dichloropropene	U		0.000757	0.00270	1	09/22/2019 19:43	WG1350161
1,3-Dichloropropane	U		0.00189	0.00540	1	09/22/2019 19:43	WG1350161
cis-1,3-Dichloropropene	U		0.000733	0.00270	1	09/22/2019 19:43	WG1350161
trans-1,3-Dichloropropene	U		0.00165	0.00540	1	09/22/2019 19:43	WG1350161
trans-1,4-Dichloro-2-butene	U		0.00151	0.00540	1	09/22/2019 19:43	WG1350161
2,2-Dichloropropane	U		0.000857	0.00270	1	09/22/2019 19:43	WG1350161
Di-isopropyl ether	U		0.000378	0.00108	1	09/22/2019 19:43	WG1350161
Ethylbenzene	U		0.000573	0.00270	1	09/22/2019 19:43	WG1350161
Hexachloro-1,3-butadiene	U		0.0137	0.0270	1	09/22/2019 19:43	WG1350161
2-Hexanone	U		0.0108	0.0270	1	09/22/2019 19:43	WG1350161
n-Hexane	0.00807		0.00115	0.00540	1	09/22/2019 19:43	WG1350161
Iodomethane	U		0.00654	0.0135	1	09/22/2019 19:43	WG1350161
Isopropylbenzene	U		0.000933	0.00270	1	09/22/2019 19:43	WG1350161
p-Isopropyltoluene	U		0.00252	0.00540	1	09/22/2019 19:43	WG1350161
2-Butanone (MEK)	U		0.0135	0.0270	1	09/22/2019 19:43	WG1350161
Methylene Chloride	U		0.00718	0.0270	1	09/22/2019 19:43	WG1350161
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0270	1	09/22/2019 19:43	WG1350161

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000319	0.00108	1	09/22/2019 19:43	WG1350161
Naphthalene	U		0.00337	0.0135	1	09/22/2019 19:43	WG1350161
n-Propylbenzene	U		0.00128	0.00540	1	09/22/2019 19:43	WG1350161
Styrene	U		0.00295	0.0135	1	09/22/2019 19:43	WG1350161
1,1,1,2-Tetrachloroethane	U		0.000540	0.00270	1	09/22/2019 19:43	WG1350161
1,1,2,2-Tetrachloroethane	U		0.000422	0.00270	1	09/22/2019 19:43	WG1350161
1,1,2-Trichlorotrifluoroethane	U		0.000730	0.00270	1	09/22/2019 19:43	WG1350161
Tetrachloroethene	U		0.000757	0.00270	1	09/22/2019 19:43	WG1350161
Toluene	0.0100		0.00135	0.00540	1	09/22/2019 19:43	WG1350161
1,2,3-Trichlorobenzene	U		0.000676	0.00270	1	09/22/2019 19:43	WG1350161
1,2,4-Trichlorobenzene	U		0.00521	0.0135	1	09/22/2019 19:43	WG1350161
1,1,1-Trichloroethane	U		0.000297	0.00270	1	09/22/2019 19:43	WG1350161
1,1,2-Trichloroethane	U		0.000954	0.00270	1	09/22/2019 19:43	WG1350161
Trichloroethene	U		0.000432	0.00108	1	09/22/2019 19:43	WG1350161
Trichlorofluoromethane	U		0.000540	0.00270	1	09/22/2019 19:43	WG1350161
1,2,3-Trichloropropane	U		0.00551	0.0135	1	09/22/2019 19:43	WG1350161
1,2,4-Trimethylbenzene	U		0.00125	0.00540	1	09/22/2019 19:43	WG1350161
1,2,3-Trimethylbenzene	U		0.00124	0.00540	1	09/22/2019 19:43	WG1350161
1,3,5-Trimethylbenzene	U		0.00117	0.00540	1	09/22/2019 19:43	WG1350161
Vinyl acetate	U		0.00380	0.0135	1	09/22/2019 19:43	WG1350161
Vinyl chloride	U		0.000738	0.00270	1	09/22/2019 19:43	WG1350161
Xylenes, Total	U		0.00517	0.00703	1	09/22/2019 19:43	WG1350161
(S) Toluene-d8	*105*			*75.0-131*		*09/22/2019 19:43*	WG1350161
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/22/2019 19:43*	WG1350161
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/22/2019 19:43*	WG1350161

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.16	B J J0	1.05	25.0	1	09/25/2019 13:54	WG1351851
Acrylonitrile	U	J0	0.873	5.00	1	09/25/2019 13:54	WG1351851
Benzene	U		0.0896	0.500	1	09/25/2019 13:54	WG1351851
Bromobenzene	U		0.133	0.500	1	09/25/2019 13:54	WG1351851
Bromodichloromethane	U		0.0800	0.500	1	09/25/2019 13:54	WG1351851
Bromochloromethane	U		0.145	0.500	1	09/25/2019 13:54	WG1351851
Bromoform	U		0.186	0.500	1	09/25/2019 13:54	WG1351851
Bromomethane	U		0.157	2.50	1	09/25/2019 13:54	WG1351851
n-Butylbenzene	U		0.143	0.500	1	09/25/2019 13:54	WG1351851
sec-Butylbenzene	U		0.134	0.500	1	09/25/2019 13:54	WG1351851
tert-Butylbenzene	U		0.183	0.500	1	09/25/2019 13:54	WG1351851
Carbon disulfide	U		0.101	0.500	1	09/25/2019 13:54	WG1351851
Carbon tetrachloride	U		0.159	0.500	1	09/25/2019 13:54	WG1351851
Chlorobenzene	U		0.140	0.500	1	09/25/2019 13:54	WG1351851
Chlorodibromomethane	U		0.128	0.500	1	09/25/2019 13:54	WG1351851
Chloroethane	U		0.141	2.50	1	09/25/2019 13:54	WG1351851
Chloroform	U		0.0860	0.500	1	09/25/2019 13:54	WG1351851
Chloromethane	U		0.153	1.25	1	09/25/2019 13:54	WG1351851
2-Chlorotoluene	U		0.111	0.500	1	09/25/2019 13:54	WG1351851
4-Chlorotoluene	U		0.0972	0.500	1	09/25/2019 13:54	WG1351851
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/25/2019 13:54	WG1351851
1,2-Dibromoethane	U		0.193	0.500	1	09/25/2019 13:54	WG1351851
Dibromomethane	U		0.117	0.500	1	09/25/2019 13:54	WG1351851
1,2-Dichlorobenzene	U		0.101	0.500	1	09/25/2019 13:54	WG1351851
1,3-Dichlorobenzene	U		0.130	0.500	1	09/25/2019 13:54	WG1351851
1,4-Dichlorobenzene	U		0.121	0.500	1	09/25/2019 13:54	WG1351851
Dichlorodifluoromethane	U		0.127	2.50	1	09/25/2019 13:54	WG1351851
1,1-Dichloroethane	U		0.114	0.500	1	09/25/2019 13:54	WG1351851
1,2-Dichloroethane	U		0.108	0.500	1	09/25/2019 13:54	WG1351851
1,1-Dichloroethene	U		0.188	0.500	1	09/25/2019 13:54	WG1351851
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/25/2019 13:54	WG1351851
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/25/2019 13:54	WG1351851
1,2-Dichloropropane	U		0.190	0.500	1	09/25/2019 13:54	WG1351851
1,1-Dichloropropene	U		0.128	0.500	1	09/25/2019 13:54	WG1351851
1,3-Dichloropropane	U		0.147	1.00	1	09/25/2019 13:54	WG1351851
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/25/2019 13:54	WG1351851
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/25/2019 13:54	WG1351851
trans-1,4-Dichloro-2-butene	U	J0 J4	0.257	5.00	1	09/25/2019 13:54	WG1351851
2,2-Dichloropropane	U		0.0929	0.500	1	09/25/2019 13:54	WG1351851
Di-isopropyl ether	U		0.0924	0.500	1	09/25/2019 13:54	WG1351851
Ethylbenzene	U		0.158	0.500	1	09/25/2019 13:54	WG1351851
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/25/2019 13:54	WG1351851
2-Hexanone	U		0.757	5.00	1	09/25/2019 13:54	WG1351851
n-Hexane	U		0.305	5.00	1	09/25/2019 13:54	WG1351851
Iodomethane	U		0.377	10.0	1	09/25/2019 13:54	WG1351851
Isopropylbenzene	U		0.126	0.500	1	09/25/2019 13:54	WG1351851
p-Isopropyltoluene	U		0.138	0.500	1	09/25/2019 13:54	WG1351851
2-Butanone (MEK)	U	J0	1.28	5.00	1	09/25/2019 13:54	WG1351851
Methylene Chloride	U		1.07	2.50	1	09/25/2019 13:54	WG1351851
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/25/2019 13:54	WG1351851
Methyl tert-butyl ether	U		0.102	0.500	1	09/25/2019 13:54	WG1351851
Naphthalene	U		0.174	2.50	1	09/25/2019 13:54	WG1351851
n-Propylbenzene	U		0.162	0.500	1	09/25/2019 13:54	WG1351851
Styrene	U		0.117	0.500	1	09/25/2019 13:54	WG1351851
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/25/2019 13:54	WG1351851
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/25/2019 13:54	WG1351851

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/25/2019 13:54	WG1351851
Tetrachloroethene	U		0.199	0.500	1	09/25/2019 13:54	WG1351851
Toluene	U		0.412	0.500	1	09/25/2019 13:54	WG1351851
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/25/2019 13:54	WG1351851
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/25/2019 13:54	WG1351851
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/25/2019 13:54	WG1351851
1,1,2-Trichloroethane	U		0.186	0.500	1	09/25/2019 13:54	WG1351851
Trichloroethene	U		0.153	0.500	1	09/25/2019 13:54	WG1351851
Trichlorofluoromethane	U		0.130	2.50	1	09/25/2019 13:54	WG1351851
1,2,3-Trichloropropane	U	J0	0.247	2.50	1	09/25/2019 13:54	WG1351851
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/25/2019 13:54	WG1351851
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/25/2019 13:54	WG1351851
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/25/2019 13:54	WG1351851
Vinyl acetate	U	J3	0.645	5.00	1	09/25/2019 13:54	WG1351851
Vinyl chloride	U		0.118	0.500	1	09/25/2019 13:54	WG1351851
Xylenes, Total	U		0.316	1.50	1	09/25/2019 13:54	WG1351851
(S) Toluene-d8	*98.3*			*80.0-120*		*09/25/2019 13:54*	WG1351851
(S) 4-Bromofluorobenzene	*99.8*			*77.0-126*		*09/25/2019 13:54*	WG1351851
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/25/2019 13:54*	WG1351851

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MEMORANDUM

TO: Project File **DATE:** October 30, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.02.501B

TASK: EIM Data Validation Level EPA2A for Remedial Investigation (RI) Well Drilling and Installation. September and October 2019 Soil Samples.

LAB: Pace Sample Delivery Groups (SDGs): L1145065, L1146028, and L1147037

Fifty-seven (57) soil samples, including four (4) field duplicates, and three (3) trip blanks were collected on September 28, 29, October 1 and 3, 2019 as part of the RI effort at the Former American Linen Supply Site, in Seattle, Washington. The samples were delivered to Pace Analytical (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following parameters:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons (TPH) as gasoline (TPH-Gx) by NWTPH-GX per analytical methods stipulated by Washington State Department of Ecology; and
- Total Solids by Standard Methods (SM) 2540 G-2011.

The RI Well Drilling and Installation sampling results are reported in multiple SDGs from Pace. Pace SDGs are reviewed in small groups per each data validation report. Analytical results are reported in Pace SDGs L1145065, L1146028, and L1147037. The quality assurance review of the laboratory data associated with these SDGs are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Sample Receipt, Preservation and Handling

The samples were delivered to the project laboratory in coolers under standard chain-of-custody protocols. Review of Pace's chain of custody (COC) notes indicate that all samples were received in good condition below the recommended preservation temperature 6.0°C. The samples were collected and delivered to the laboratory by courier. No data qualifications were assigned due to sample receipt or temperature preservation issues. The following issues were noted by the laboratory:

- SDG L1145065: PES contacted Pace on September 30, 2019 to request additional analyses (gasoline by NWTPH-Gx) on samples MW-320-19 and MW-320-27.

- SDG L1145065: Field duplicate sample on COC appears to read MW-2010 but per PES's notes should read MW-2010-60. PES confirmed that no action is necessary since the sample is a field duplicate.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and waters (trip blanks) from the date of sample collection. All holding time criteria are met with the following exception:

- SDG 1145065: Sample MW-323-70 was reanalyzed one day outside of holding time for naphthalene due to a laboratory confirmed naphthalene detection due to carryover in the initial run. Initial naphthalene result (analyzed on October 11, 2019) is associated with analytical batch WG1360981. Reanalyzed naphthalene result (analyzed on October 13, 2019) is associated with analytical batch WG1362254 and laboratory qualified (Q) to indicate a one day holding time exceedance. **Sample MW-323-70 naphthalene result associated with the October 11, 2019 analysis is rejected (R) due to laboratory identified contamination. Sample MW-323-70 naphthalene result associated with the October 13, 2019 result is estimated (UJ) due to holding time exceedance.**

NWTPH-Gx Method:
All samples were analyzed for gasoline within the USEPA recommended holding time of fourteen days for preserved soils from the date of sample collection. All holding time criteria were met.

Total Solids by SM 2540 G-2011:
Samples were analyzed within the USEPA recommended holding time of seven days for total solids.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDG L1145065 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for dichlorodifluoromethane and 2,2-dichloropropane associated with analytical batch WG1360981 (analyzed on October 11 of 2019). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1146028 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issue was noted by Pace for n-hexane and vinyl acetate associated with analytical batch WG1361768 (analyzed on October 12 of 2019). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

- SDG L1146028 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issue was noted by Pace for several compounds associated with analytical batch WG1360613 (analyzed on October 10 of 2019). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **No action is taken since the associated sample is a trip blank**

- SDG L1147037 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for acetone, carbon tetrachloride, and vinyl acetate associated with analytical batch WG1362726 (analyzed on October 14 of 2019). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks are included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the method detection limit (MDLs) or the reporting detection limit (RDLs) with the following exceptions:

- SDG L1145065: Chloroform, 2-butanone (MEK), and methylene chloride are detected below the RDLs in the method blank (analytical batch WG1360525). **All associated chloroform, 2-butanone (MEK), and methylene detections are detected below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDG L1145065: 2-Butanone (MEK) is detected below the RDL in the method blank (analytical batch WG1360981). **All associated 2-Butanone (MEK) detections are**

detected below the RDL and are qualified as not detected (U) due to blank contamination.

- SDG L1146028: Methylene chloride is detected below the RDL in the method blank (analytical batch WG1361768). No action was necessary since methylene chloride was not detected in the associated samples.

- SDG L1146028: Chloroform, trans-1,2-dichloroethene, and methylene chloride are detected below the RDLs in the method blank (analytical batch WG1361775). No action was necessary since these compounds were not detected in the associated sample MW-2014-65.

- SDG L1147037: Chloroform, trans-1,2-dichloroethene, 2-butanone (MEK), and methylene chloride are detected below the RDLs in the method blank (analytical batch WG1361818). **All associated chloroform, trans-1,2-dichloroethene, 2-butanone (MEK), and methylene chloride detections below the RDL and are qualified as not detected (U) due to blank contamination.**

- SDG L1147037: 2-Butanone (MEK), methylene chloride, and 1,2,4-trimethylbenzene are detected below the RDLs in the method blank (analytical batch WG1362726). **All associated 2-butanone (MEK), methylene chloride, and 1,2,4-trimethylbenzene detections below the RDL and are qualified as not detected (U) due to blank contamination.**

NWTPH-Gx Method:
A laboratory method blank was included with the analytical batch per method requirement. The target analyte (gasoline) is not detected in the method blanks at a concentration at or above the RDL.

Trip Blank Results

USEPA Method 8260C:
Three trip blanks (TB-093019, TB-100119, TB-100319) were collected and analyzed. The target analytes were not detected in the trip blanks at or above the MDLs or RDLs with the following exceptions:

- SDG L1147037: A low level of acetone (below the RDL) is detected in the trip blank. Low levels of acetone (below the RDL) are detected in associated samples MW-307-10, MW-307-40, MW-307-60, and MW-307-70. **The acetone detections in these samples are qualified as not detected (U) due to blank contamination.**

Field, Rinsate, or Equipment Blank Results

Field, rinsate or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate sample pairs are as follows:

- SDG L1145065: Samples MW-323-60 and MW-2010-60;
- SDG L1145065: Samples MW-323-110 and MW-2012-10;
- SDG L1146028: Samples MW-302-65 and MW-2014-65; and
- SDG L1147037: Samples MW-307-85 and MW-2016-85.

Field duplicate pairs were submitted and analyzed for VOCs and percent solids. Percent solids and VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 2x RDL for soil results <5X the RDL) for the field duplicates.

Laboratory Duplicate Analyses

USEPA Method 8260C:
Laboratory duplicate analyses were not performed. Refer to laboratory control samples, field duplicate samples, or matrix spike results for precision data.

NWTPH-Gx Method:
Laboratory duplicate analyses were not performed.   Refer to matrix spike results for precision data.

Total Solids by SM 2540 G-2011:
Laboratory duplicate samples were performed on client and non-client samples associated with the analytical batches. The RPDs for percent moisture are within the laboratory control limit of 20% RPD.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

NWTPH-Gx Method:
The surrogate recovery results for the samples, matrix spike samples, laboratory control sample, and the method blank are within the laboratory surrogate control limits for all the analyses.

Matrix Spike/ Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on client and non-client samples within the analytical batch. In cases where MS/MSDs were not performed refer to laboratory control samples, field duplicate data for accuracy and precision data. The MS/MSD %R's and RPDs for the target compounds are within the laboratory control criteria for soil with the following discussion:

- SDG L1146028: Matrix spike analyses was performed on a non-client sample within the analytical batch. Multiple RPDs are outside of laboratory control limit criteria. Several MS or MSD % R's are outside of criteria due to matrix issues or elevated concentrations. No action is taken since the spike was performed on a non-client sample. Refer to laboratory control sample and field duplicate results for additional quality control data.

NWTPH-Gx Method:
MS/MSD analyses were performed on a non-client soil sample within the analytical batch. MS/MSD spike recoveries and RPD are within laboratory control limit criteria.

Laboratory Control Samples

USEPA Method 8260C:
Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed by USEPA Method 8260C. In some cases, only an LCS was analyzed. For precision data refer to laboratory duplicate or field duplicate results. The LCS or LCS/LCSD %R's and RPDs for the target compounds are within the laboratory control criteria for soils with the following discussion:

- SDG L1146028: LCS/LCSD (WG1360613) 1,3-dichloropropane and 1,1,2-trichloroethane recoveries are detected below the laboratory acceptance criteria and laboratory qualified (J4). No action is taken since the associated sample is the trip blank (TB-100119).

- SDG L1146028: LCS (WG1361775) vinyl chloride recovery is detected above the laboratory acceptance criteria and laboratory qualified (J4). LCSD (WG1361775) 1,2,4-trichlorobenzene recovery is detected above the laboratory acceptance criteria and laboratory qualified (J4). No action is taken since these compounds are not detected in the associated sample (sample MW-2014-65).

- SDG 1147037: Idomethane (also known as methyl iodide) RPD is outside laboratory control limit criteria and LCSD % R is slightly below laboratory acceptance criteria. Idomethane result is laboratory qualified (J3 and J4). No action is taken on this basis since idomethane LCS recovery is within, but recoveries were wide and the LCSD recovery is only slightly below control limit criteria.

NWTPH-Gx Method:
LCS were analyzed by NWTPH-GX. For precision data refer matrix spike results. The LCS %R's for the target compounds are within the laboratory control criteria for soils.

Moisture by Method 8000D:
LCS were analyzed within the analytical batch. For precision data refer to laboratory or field duplicate results. The LCS %Rs for the target compound is within the laboratory control criteria for soils.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory reports with the following discussion:

- SDG 1145065: Sample MW-323-70 was reanalyzed one day outside of holding time for naphthalene due to a laboratory confirmed naphthalene detection due to carryover in the initial analysis. The initial naphthalene result (analyzed on October 11, 2019) is associated with analytical batch WG1360981. The reanalyzed naphthalene result (analyzed on October 13, 2019) is associated with analytical batch WG1362254 and laboratory qualified (Q) to indicate holding time exceedance. **Sample MW-323-70 naphthalene result associated with the October 11, 2019 analysis is rejected (R) due to laboratory identified contamination. Sample MW-323-70 naphthalene result associated with the October 13, 2019 result is estimated (UJ) due to holding time exceedance.** Sample MW-323-70 reporting limits are elevated due to limited sample volume. No action was taken other than to note this.

- SDG 1145065: Sample narrative indicated that samples MW-323-10, MW-323-15, MW-323-30 were at the lowest possible dilution due to low sample volume.

- SDG 1145065: Sample narrative indicated that sample MW-320-19 dilution was due to non-target matrix interference.

- SDG 1147037: Sample narrative indicated that sample MW-307-70 dilution was due to limited sample volume.

- Electronic data deliverables (EDDs) for these Work Orders were provided by the laboratory and data validator qualifiers were entered, as appropriate, into the EDDs.

Quantitation Limits

Results of all analyses were reported based on standard laboratory RLs. The reported RLs are considered appropriate for this project.

Completeness

The samples were collected and analyzed as requested. Data completeness is 100%.

Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017)

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use with the following exception:

- SDG 1145065: **Sample MW-323-70 naphthalene result associated with the October 11, 2019 analysis is rejected (R) due to laboratory identified contamination. Sample MW-323-70 naphthalene result associated with the October 13, 2019 result is estimated (UJ) due to a one day holding time exceedance.**

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.0		1	10/08/2019 11:42	WG1358897

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0425	J	0.0334	0.0610	2	10/11/2019 06:15	WG1360525
Acrylonitrile	U		0.00463	0.0305	2	10/11/2019 06:15	WG1360525
Benzene	0.0151		0.000975	0.00244	2	10/11/2019 06:15	WG1360525
Bromobenzene	U		0.00256	0.0305	2	10/11/2019 06:15	WG1360525
Bromodichloromethane	U		0.00193	0.00610	2	10/11/2019 06:15	WG1360525
Bromochloromethane	U		0.00276	0.0122	2	10/11/2019 06:15	WG1360525
Bromoform	U		0.0146	0.0610	2	10/11/2019 06:15	WG1360525
Bromomethane	U		0.00902	0.0305	2	10/11/2019 06:15	WG1360525
n-Butylbenzene	U		0.00936	0.0305	2	10/11/2019 06:15	WG1360525
sec-Butylbenzene	U		0.00617	0.0305	2	10/11/2019 06:15	WG1360525
tert-Butylbenzene	U		0.00378	0.0122	2	10/11/2019 06:15	WG1360525
Carbon disulfide	U		0.00990	0.0305	2	10/11/2019 06:15	WG1360525
Carbon tetrachloride	U		0.00263	0.0122	2	10/11/2019 06:15	WG1360525
Chlorobenzene	U		0.00140	0.00610	2	10/11/2019 06:15	WG1360525
Chlorodibromomethane	U		0.00110	0.00610	2	10/11/2019 06:15	WG1360525
Chloroethane	U		0.00263	0.0122	2	10/11/2019 06:15	WG1360525
Chloroform	0.00425 U	B J	0.00101	0.00610	2	10/11/2019 06:15	WG1360525
Chloromethane	U		0.00339	0.0305	2	10/11/2019 06:15	WG1360525
2-Chlorotoluene	U		0.00224	0.00610	2	10/11/2019 06:15	WG1360525
4-Chlorotoluene	U		0.00276	0.0122	2	10/11/2019 06:15	WG1360525
1,2-Dibromo-3-Chloropropane	U		0.0124	0.0610	2	10/11/2019 06:15	WG1360525
1,2-Dibromoethane	U		0.00128	0.00610	2	10/11/2019 06:15	WG1360525
Dibromomethane	U		0.00244	0.0122	2	10/11/2019 06:15	WG1360525
1,2-Dichlorobenzene	U		0.00354	0.0122	2	10/11/2019 06:15	WG1360525
1,3-Dichlorobenzene	U		0.00415	0.0122	2	10/11/2019 06:15	WG1360525
1,4-Dichlorobenzene	U		0.00480	0.0122	2	10/11/2019 06:15	WG1360525
Dichlorodifluoromethane	U		0.00200	0.00610	2	10/11/2019 06:15	WG1360525
1,1-Dichloroethane	U		0.00140	0.00610	2	10/11/2019 06:15	WG1360525
1,2-Dichloroethane	U		0.00116	0.00610	2	10/11/2019 06:15	WG1360525
1,1-Dichloroethene	U		0.00122	0.00610	2	10/11/2019 06:15	WG1360525
cis-1,2-Dichloroethene	0.0168		0.00168	0.00610	2	10/11/2019 06:15	WG1360525
trans-1,2-Dichloroethene	U		0.00349	0.0122	2	10/11/2019 06:15	WG1360525
1,2-Dichloropropane	U		0.00310	0.0122	2	10/11/2019 06:15	WG1360525
1,1-Dichloropropene	U		0.00171	0.00610	2	10/11/2019 06:15	WG1360525
1,3-Dichloropropane	U		0.00427	0.0122	2	10/11/2019 06:15	WG1360525
cis-1,3-Dichloropropene	U		0.00166	0.00610	2	10/11/2019 06:15	WG1360525
trans-1,3-Dichloropropene	U		0.00373	0.0122	2	10/11/2019 06:15	WG1360525
trans-1,4-Dichloro-2-butene	U		0.00341	0.0122	2	10/11/2019 06:15	WG1360525
2,2-Dichloropropane	U		0.00194	0.00610	2	10/11/2019 06:15	WG1360525
Di-isopropyl ether	U		0.000853	0.00244	2	10/11/2019 06:15	WG1360525
Ethylbenzene	U		0.00129	0.00610	2	10/11/2019 06:15	WG1360525
Hexachloro-1,3-butadiene	U		0.0310	0.0610	2	10/11/2019 06:15	WG1360525
2-Hexanone	U		0.0244	0.0610	2	10/11/2019 06:15	WG1360525
n-Hexane	U		0.00258	0.0122	2	10/11/2019 06:15	WG1360525
Iodomethane	U		0.0148	0.0305	2	10/11/2019 06:15	WG1360525
Isopropylbenzene	U		0.00211	0.00610	2	10/11/2019 06:15	WG1360525
p-Isopropyltoluene	U		0.00568	0.0122	2	10/11/2019 06:15	WG1360525
2-Butanone (MEK)	U		0.0305	0.0610	2	10/11/2019 06:15	WG1360525
Methylene Chloride	0.0165 U	B J	0.0162	0.0610	2	10/11/2019 06:15	WG1360525
4-Methyl-2-pentanone (MIBK)	U		0.0244	0.0610	2	10/11/2019 06:15	WG1360525

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000719	0.00244	2	10/11/2019 06:15	WG1360525
Naphthalene	U		0.00761	0.0305	2	10/11/2019 06:15	WG1360525
n-Propylbenzene	U		0.00288	0.0122	2	10/11/2019 06:15	WG1360525
Styrene	U		0.00666	0.0305	2	10/11/2019 06:15	WG1360525
1,1,1,2-Tetrachloroethane	U		0.00122	0.00610	2	10/11/2019 06:15	WG1360525
1,1,2,2-Tetrachloroethane	U		0.000951	0.00610	2	10/11/2019 06:15	WG1360525
1,1,2-Trichlorotrifluoroethane	U		0.00165	0.00610	2	10/11/2019 06:15	WG1360525
Tetrachloroethene	0.0312		0.00171	0.00610	2	10/11/2019 06:15	WG1360525
Toluene	0.0310		0.00305	0.0122	2	10/11/2019 06:15	WG1360525
1,2,3-Trichlorobenzene	U		0.00152	0.00610	2	10/11/2019 06:15	WG1360525
1,2,4-Trichlorobenzene	U		0.0118	0.0305	2	10/11/2019 06:15	WG1360525
1,1,1-Trichloroethane	0.00172 J	J	0.000671	0.00610	2	10/11/2019 06:15	WG1360525
1,1,2-Trichloroethane	U		0.00216	0.00610	2	10/11/2019 06:15	WG1360525
Trichloroethene	U		0.000975	0.00244	2	10/11/2019 06:15	WG1360525
Trichlorofluoromethane	U		0.00122	0.00610	2	10/11/2019 06:15	WG1360525
1,2,3-Trichloropropane	U		0.0124	0.0305	2	10/11/2019 06:15	WG1360525
1,2,4-Trimethylbenzene	U		0.00283	0.0122	2	10/11/2019 06:15	WG1360525
1,2,3-Trimethylbenzene	U		0.00280	0.0122	2	10/11/2019 06:15	WG1360525
1,3,5-Trimethylbenzene	U		0.00263	0.0122	2	10/11/2019 06:15	WG1360525
Vinyl acetate	U		0.00858	0.0305	2	10/11/2019 06:15	WG1360525
Vinyl chloride	U		0.00167	0.00610	2	10/11/2019 06:15	WG1360525
Xylenes, Total	U		0.0117	0.0158	2	10/11/2019 06:15	WG1360525
(S) Toluene-d8	*105*			*75.0-131*		*10/11/2019 06:15*	WG1360525
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/11/2019 06:15*	WG1360525
(S) 1,2-Dichloroethane-d4	*96.9*			*70.0-130*		*10/11/2019 06:15*	WG1360525

Sample Narrative:

L1145065-02 WG1360525: Lowest possible dilution due to low sample volume.

JC 11/1/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.0		1	10/08/2019 11:42	WG1358897

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0497	J	0.0314	0.0573	2.04	10/11/2019 06:35	WG1360525
Acrylonitrile	U		0.00436	0.0287	2.04	10/11/2019 06:35	WG1360525
Benzene	0.00140	J	0.000917	0.00229	2.04	10/11/2019 06:35	WG1360525
Bromobenzene	U		0.00240	0.0287	2.04	10/11/2019 06:35	WG1360525
Bromodichloromethane	U		0.00181	0.00573	2.04	10/11/2019 06:35	WG1360525
Bromochloromethane	U		0.00260	0.0115	2.04	10/11/2019 06:35	WG1360525
Bromoform	U		0.0137	0.0573	2.04	10/11/2019 06:35	WG1360525
Bromomethane	U		0.00848	0.0287	2.04	10/11/2019 06:35	WG1360525
n-Butylbenzene	U		0.00880	0.0287	2.04	10/11/2019 06:35	WG1360525
sec-Butylbenzene	U		0.00580	0.0287	2.04	10/11/2019 06:35	WG1360525
tert-Butylbenzene	U		0.00355	0.0115	2.04	10/11/2019 06:35	WG1360525
Carbon disulfide	U		0.00930	0.0287	2.04	10/11/2019 06:35	WG1360525
Carbon tetrachloride	U		0.00247	0.0115	2.04	10/11/2019 06:35	WG1360525
Chlorobenzene	U		0.00131	0.00573	2.04	10/11/2019 06:35	WG1360525
Chlorodibromomethane	U		0.00103	0.00573	2.04	10/11/2019 06:35	WG1360525
Chloroethane	U		0.00247	0.0115	2.04	10/11/2019 06:35	WG1360525
Chloroform	0.00260 U	B J	0.000952	0.00573	2.04	10/11/2019 06:35	WG1360525
Chloromethane	U		0.00319	0.0287	2.04	10/11/2019 06:35	WG1360525
2-Chlorotoluene	U		0.00211	0.00573	2.04	10/11/2019 06:35	WG1360525
4-Chlorotoluene	U		0.00260	0.0115	2.04	10/11/2019 06:35	WG1360525
1,2-Dibromo-3-Chloropropane	U		0.0117	0.0573	2.04	10/11/2019 06:35	WG1360525
1,2-Dibromoethane	U		0.00120	0.00573	2.04	10/11/2019 06:35	WG1360525
Dibromomethane	U		0.00229	0.0115	2.04	10/11/2019 06:35	WG1360525
1,2-Dichlorobenzene	U		0.00333	0.0115	2.04	10/11/2019 06:35	WG1360525
1,3-Dichlorobenzene	U		0.00390	0.0115	2.04	10/11/2019 06:35	WG1360525
1,4-Dichlorobenzene	U		0.00452	0.0115	2.04	10/11/2019 06:35	WG1360525
Dichlorodifluoromethane	U		0.00188	0.00573	2.04	10/11/2019 06:35	WG1360525
1,1-Dichloroethane	U		0.00131	0.00573	2.04	10/11/2019 06:35	WG1360525
1,2-Dichloroethane	U		0.00109	0.00573	2.04	10/11/2019 06:35	WG1360525
1,1-Dichloroethene	U		0.00115	0.00573	2.04	10/11/2019 06:35	WG1360525
cis-1,2-Dichloroethene	U		0.00158	0.00573	2.04	10/11/2019 06:35	WG1360525
trans-1,2-Dichloroethene	U		0.00328	0.0115	2.04	10/11/2019 06:35	WG1360525
1,2-Dichloropropane	U		0.00291	0.0115	2.04	10/11/2019 06:35	WG1360525
1,1-Dichloropropene	U		0.00161	0.00573	2.04	10/11/2019 06:35	WG1360525
1,3-Dichloropropane	U		0.00401	0.0115	2.04	10/11/2019 06:35	WG1360525
cis-1,3-Dichloropropene	U		0.00155	0.00573	2.04	10/11/2019 06:35	WG1360525
trans-1,3-Dichloropropene	U		0.00351	0.0115	2.04	10/11/2019 06:35	WG1360525
trans-1,4-Dichloro-2-butene	U		0.00321	0.0115	2.04	10/11/2019 06:35	WG1360525
2,2-Dichloropropane	U		0.00182	0.00573	2.04	10/11/2019 06:35	WG1360525
Di-isopropyl ether	U		0.000802	0.00229	2.04	10/11/2019 06:35	WG1360525
Ethylbenzene	U		0.00121	0.00573	2.04	10/11/2019 06:35	WG1360525
Hexachloro-1,3-butadiene	U		0.0291	0.0573	2.04	10/11/2019 06:35	WG1360525
2-Hexanone	U		0.0229	0.0573	2.04	10/11/2019 06:35	WG1360525
n-Hexane	U		0.00243	0.0115	2.04	10/11/2019 06:35	WG1360525
Iodomethane	U		0.0138	0.0287	2.04	10/11/2019 06:35	WG1360525
Isopropylbenzene	U		0.00198	0.00573	2.04	10/11/2019 06:35	WG1360525
p-Isopropyltoluene	U		0.00534	0.0115	2.04	10/11/2019 06:35	WG1360525
2-Butanone (MEK)	0.0369 U	B J	0.0287	0.0573	2.04	10/11/2019 06:35	WG1360525
Methylene Chloride	0.0172 U	B J	0.0152	0.0573	2.04	10/11/2019 06:35	WG1360525
4-Methyl-2-pentanone (MIBK)	U		0.0229	0.0573	2.04	10/11/2019 06:35	WG1360525

JC 11/1/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000677	0.00229	2.04	10/11/2019 06:35	WG1360525
Naphthalene	U		0.00715	0.0287	2.04	10/11/2019 06:35	WG1360525
n-Propylbenzene	U		0.00271	0.0115	2.04	10/11/2019 06:35	WG1360525
Styrene	U		0.00626	0.0287	2.04	10/11/2019 06:35	WG1360525
1,1,1,2-Tetrachloroethane	U		0.00115	0.00573	2.04	10/11/2019 06:35	WG1360525
1,1,2,2-Tetrachloroethane	U		0.000895	0.00573	2.04	10/11/2019 06:35	WG1360525
1,1,2-Trichlorotrifluoroethane	U		0.00155	0.00573	2.04	10/11/2019 06:35	WG1360525
Tetrachloroethene	0.0106		0.00161	0.00573	2.04	10/11/2019 06:35	WG1360525
Toluene	0.0548		0.00287	0.0115	2.04	10/11/2019 06:35	WG1360525
1,2,3-Trichlorobenzene	U		0.00144	0.00573	2.04	10/11/2019 06:35	WG1360525
1,2,4-Trichlorobenzene	U		0.0110	0.0287	2.04	10/11/2019 06:35	WG1360525
1,1,1-Trichloroethane	U		0.000630	0.00573	2.04	10/11/2019 06:35	WG1360525
1,1,2-Trichloroethane	U		0.00202	0.00573	2.04	10/11/2019 06:35	WG1360525
Trichloroethene	U		0.000917	0.00229	2.04	10/11/2019 06:35	WG1360525
Trichlorofluoromethane	U		0.00115	0.00573	2.04	10/11/2019 06:35	WG1360525
1,2,3-Trichloropropane	U		0.0117	0.0287	2.04	10/11/2019 06:35	WG1360525
1,2,4-Trimethylbenzene	U		0.00266	0.0115	2.04	10/11/2019 06:35	WG1360525
1,2,3-Trimethylbenzene	U		0.00264	0.0115	2.04	10/11/2019 06:35	WG1360525
1,3,5-Trimethylbenzene	U		0.00247	0.0115	2.04	10/11/2019 06:35	WG1360525
Vinyl acetate	U		0.00807	0.0287	2.04	10/11/2019 06:35	WG1360525
Vinyl chloride	U		0.00156	0.00573	2.04	10/11/2019 06:35	WG1360525
Xylenes, Total	U		0.0110	0.0149	2.04	10/11/2019 06:35	WG1360525
(S) Toluene-d8	*105*			*75.0-131*		*10/11/2019 06:35*	WG1360525
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/11/2019 06:35*	WG1360525
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/11/2019 06:35*	WG1360525

Sample Narrative:

L1145065-03 WG1360525: Lowest possible dilution due to low sample volume.

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.6		1	10/08/2019 11:42	WG1358897

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0282	1	10/11/2019 06:56	WG1360525
Acrylonitrile	U		0.00215	0.0141	1	10/11/2019 06:56	WG1360525
Benzene	0.00348		0.000452	0.00113	1	10/11/2019 06:56	WG1360525
Bromobenzene	U		0.00119	0.0141	1	10/11/2019 06:56	WG1360525
Bromodichloromethane	U		0.000890	0.00282	1	10/11/2019 06:56	WG1360525
Bromochloromethane	U		0.00128	0.00565	1	10/11/2019 06:56	WG1360525
Bromoform	U		0.00675	0.0282	1	10/11/2019 06:56	WG1360525
Bromomethane	U		0.00418	0.0141	1	10/11/2019 06:56	WG1360525
n-Butylbenzene	0.00502	J	0.00434	0.0141	1	10/11/2019 06:56	WG1360525
sec-Butylbenzene	U		0.00286	0.0141	1	10/11/2019 06:56	WG1360525
tert-Butylbenzene	U		0.00175	0.00565	1	10/11/2019 06:56	WG1360525
Carbon disulfide	U		0.00458	0.0141	1	10/11/2019 06:56	WG1360525
Carbon tetrachloride	U		0.00122	0.00565	1	10/11/2019 06:56	WG1360525
Chlorobenzene	U		0.000647	0.00282	1	10/11/2019 06:56	WG1360525
Chlorodibromomethane	U		0.000508	0.00282	1	10/11/2019 06:56	WG1360525
Chloroethane	U		0.00122	0.00565	1	10/11/2019 06:56	WG1360525
Chloroform	U		0.000469	0.00282	1	10/11/2019 06:56	WG1360525
Chloromethane	U		0.00157	0.0141	1	10/11/2019 06:56	WG1360525
2-Chlorotoluene	U		0.00104	0.00282	1	10/11/2019 06:56	WG1360525
4-Chlorotoluene	U		0.00128	0.00565	1	10/11/2019 06:56	WG1360525
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0282	1	10/11/2019 06:56	WG1360525
1,2-Dibromoethane	U		0.000593	0.00282	1	10/11/2019 06:56	WG1360525
Dibromomethane	U		0.00113	0.00565	1	10/11/2019 06:56	WG1360525
1,2-Dichlorobenzene	U		0.00164	0.00565	1	10/11/2019 06:56	WG1360525
1,3-Dichlorobenzene	U		0.00192	0.00565	1	10/11/2019 06:56	WG1360525
1,4-Dichlorobenzene	U		0.00222	0.00565	1	10/11/2019 06:56	WG1360525
Dichlorodifluoromethane	U		0.000924	0.00282	1	10/11/2019 06:56	WG1360525
1,1-Dichloroethane	U		0.000649	0.00282	1	10/11/2019 06:56	WG1360525
1,2-Dichloroethane	U		0.000536	0.00282	1	10/11/2019 06:56	WG1360525
1,1-Dichloroethene	U		0.000565	0.00282	1	10/11/2019 06:56	WG1360525
cis-1,2-Dichloroethene	0.000998	J	0.000779	0.00282	1	10/11/2019 06:56	WG1360525
trans-1,2-Dichloroethene	U		0.00161	0.00565	1	10/11/2019 06:56	WG1360525
1,2-Dichloropropane	U		0.00143	0.00565	1	10/11/2019 06:56	WG1360525
1,1-Dichloropropene	U		0.000790	0.00282	1	10/11/2019 06:56	WG1360525
1,3-Dichloropropane	U		0.00198	0.00565	1	10/11/2019 06:56	WG1360525
cis-1,3-Dichloropropene	U		0.000766	0.00282	1	10/11/2019 06:56	WG1360525
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	10/11/2019 06:56	WG1360525
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	10/11/2019 06:56	WG1360525
2,2-Dichloropropane	U		0.000895	0.00282	1	10/11/2019 06:56	WG1360525
Di-isopropyl ether	U		0.000395	0.00113	1	10/11/2019 06:56	WG1360525
Ethylbenzene	0.0194		0.000598	0.00282	1	10/11/2019 06:56	WG1360525
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	10/11/2019 06:56	WG1360525
2-Hexanone	U		0.0113	0.0282	1	10/11/2019 06:56	WG1360525
n-Hexane	0.0473		0.00120	0.00565	1	10/11/2019 06:56	WG1360525
Iodomethane	U		0.00683	0.0141	1	10/11/2019 06:56	WG1360525
Isopropylbenzene	0.00451		0.000974	0.00282	1	10/11/2019 06:56	WG1360525
p-Isopropyltoluene	0.00307	J	0.00263	0.00565	1	10/11/2019 06:56	WG1360525
2-Butanone (MEK)	U		0.0141	0.0282	1	10/11/2019 06:56	WG1360525
Methylene Chloride	U		0.00750	0.0282	1	10/11/2019 06:56	WG1360525
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	10/11/2019 06:56	WG1360525

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MW-323-20

Collected date/time: 09/28/19 09:57

SAMPLE RESULTS - 04

L1145065

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	10/11/2019 06:56	WG1360525
Naphthalene	0.00629	J	0.00352	0.0141	1	10/11/2019 06:56	WG1360525
n-Propylbenzene	0.0216		0.00133	0.00565	1	10/11/2019 06:56	WG1360525
Styrene	U		0.00308	0.0141	1	10/11/2019 06:56	WG1360525
1,1,1,2-Tetrachloroethane	U		0.000565	0.00282	1	10/11/2019 06:56	WG1360525
1,1,2,2-Tetrachloroethane	U		0.000440	0.00282	1	10/11/2019 06:56	WG1360525
1,1,2-Trichlorotrifluoroethane	U		0.000762	0.00282	1	10/11/2019 06:56	WG1360525
Tetrachloroethene	U		0.000790	0.00282	1	10/11/2019 06:56	WG1360525
Toluene	0.0313		0.00141	0.00565	1	10/11/2019 06:56	WG1360525
1,2,3-Trichlorobenzene	U		0.000706	0.00282	1	10/11/2019 06:56	WG1360525
1,2,4-Trichlorobenzene	U		0.00544	0.0141	1	10/11/2019 06:56	WG1360525
1,1,1-Trichloroethane	U		0.000311	0.00282	1	10/11/2019 06:56	WG1360525
1,1,2-Trichloroethane	U		0.000997	0.00282	1	10/11/2019 06:56	WG1360525
Trichloroethene	U		0.000452	0.00113	1	10/11/2019 06:56	WG1360525
Trichlorofluoromethane	U		0.000565	0.00282	1	10/11/2019 06:56	WG1360525
1,2,3-Trichloropropane	U		0.00576	0.0141	1	10/11/2019 06:56	WG1360525
1,2,4-Trimethylbenzene	0.0193		0.00131	0.00565	1	10/11/2019 06:56	WG1360525
1,2,3-Trimethylbenzene	0.0136		0.00130	0.00565	1	10/11/2019 06:56	WG1360525
1,3,5-Trimethylbenzene	0.00251	J	0.00122	0.00565	1	10/11/2019 06:56	WG1360525
Vinyl acetate	U		0.00397	0.0141	1	10/11/2019 06:56	WG1360525
Vinyl chloride	U		0.000771	0.00282	1	10/11/2019 06:56	WG1360525
Xylenes, Total	0.0535		0.00540	0.00734	1	10/11/2019 06:56	WG1360525
(S) Toluene-d8	*105*			*75.0-131*		*10/11/2019 06:56*	WG1360525
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*10/11/2019 06:56*	WG1360525
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*10/11/2019 06:56*	WG1360525

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.7		1	10/08/2019 11:42	WG1358897

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0156	0.0285	1	10/11/2019 07:17	WG1360525
Acrylonitrile	U		0.00217	0.0143	1	10/11/2019 07:17	WG1360525
Benzene	U		0.000456	0.00114	1	10/11/2019 07:17	WG1360525
Bromobenzene	U		0.00120	0.0143	1	10/11/2019 07:17	WG1360525
Bromodichloromethane	U		0.000899	0.00285	1	10/11/2019 07:17	WG1360525
Bromochloromethane	U		0.00129	0.00570	1	10/11/2019 07:17	WG1360525
Bromoform	U		0.00682	0.0285	1	10/11/2019 07:17	WG1360525
Bromomethane	U		0.00422	0.0143	1	10/11/2019 07:17	WG1360525
n-Butylbenzene	U		0.00438	0.0143	1	10/11/2019 07:17	WG1360525
sec-Butylbenzene	U		0.00288	0.0143	1	10/11/2019 07:17	WG1360525
tert-Butylbenzene	U		0.00177	0.00570	1	10/11/2019 07:17	WG1360525
Carbon disulfide	U		0.00463	0.0143	1	10/11/2019 07:17	WG1360525
Carbon tetrachloride	U		0.00123	0.00570	1	10/11/2019 07:17	WG1360525
Chlorobenzene	U		0.000653	0.00285	1	10/11/2019 07:17	WG1360525
Chlorodibromomethane	U		0.000513	0.00285	1	10/11/2019 07:17	WG1360525
Chloroethane	U		0.00123	0.00570	1	10/11/2019 07:17	WG1360525
Chloroform	0.000669 U	B J	0.000473	0.00285	1	10/11/2019 07:17	WG1360525
Chloromethane	U		0.00159	0.0143	1	10/11/2019 07:17	WG1360525
2-Chlorotoluene	U		0.00105	0.00285	1	10/11/2019 07:17	WG1360525
4-Chlorotoluene	U		0.00129	0.00570	1	10/11/2019 07:17	WG1360525
1,2-Dibromo-3-Chloropropane	U		0.00582	0.0285	1	10/11/2019 07:17	WG1360525
1,2-Dibromoethane	U		0.000599	0.00285	1	10/11/2019 07:17	WG1360525
Dibromomethane	U		0.00114	0.00570	1	10/11/2019 07:17	WG1360525
1,2-Dichlorobenzene	U		0.00165	0.00570	1	10/11/2019 07:17	WG1360525
1,3-Dichlorobenzene	U		0.00194	0.00570	1	10/11/2019 07:17	WG1360525
1,4-Dichlorobenzene	U		0.00225	0.00570	1	10/11/2019 07:17	WG1360525
Dichlorodifluoromethane	U		0.000933	0.00285	1	10/11/2019 07:17	WG1360525
1,1-Dichloroethane	U		0.000656	0.00285	1	10/11/2019 07:17	WG1360525
1,2-Dichloroethane	U		0.000542	0.00285	1	10/11/2019 07:17	WG1360525
1,1-Dichloroethene	U		0.000570	0.00285	1	10/11/2019 07:17	WG1360525
cis-1,2-Dichloroethene	0.00136	J	0.000787	0.00285	1	10/11/2019 07:17	WG1360525
trans-1,2-Dichloroethene	U		0.00163	0.00570	1	10/11/2019 07:17	WG1360525
1,2-Dichloropropane	U		0.00145	0.00570	1	10/11/2019 07:17	WG1360525
1,1-Dichloropropene	U		0.000798	0.00285	1	10/11/2019 07:17	WG1360525
1,3-Dichloropropane	U		0.00200	0.00570	1	10/11/2019 07:17	WG1360525
cis-1,3-Dichloropropene	U		0.000773	0.00285	1	10/11/2019 07:17	WG1360525
trans-1,3-Dichloropropene	U		0.00174	0.00570	1	10/11/2019 07:17	WG1360525
trans-1,4-Dichloro-2-butene	U		0.00160	0.00570	1	10/11/2019 07:17	WG1360525
2,2-Dichloropropane	U		0.000904	0.00285	1	10/11/2019 07:17	WG1360525
Di-isopropyl ether	U		0.000399	0.00114	1	10/11/2019 07:17	WG1360525
Ethylbenzene	U		0.000604	0.00285	1	10/11/2019 07:17	WG1360525
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	10/11/2019 07:17	WG1360525
2-Hexanone	U		0.0114	0.0285	1	10/11/2019 07:17	WG1360525
n-Hexane	U		0.00121	0.00570	1	10/11/2019 07:17	WG1360525
Iodomethane	U		0.00690	0.0143	1	10/11/2019 07:17	WG1360525
Isopropylbenzene	U		0.000984	0.00285	1	10/11/2019 07:17	WG1360525
p-Isopropyltoluene	U		0.00266	0.00570	1	10/11/2019 07:17	WG1360525
2-Butanone (MEK)	0.0187 U	B J	0.0143	0.0285	1	10/11/2019 07:17	WG1360525
Methylene Chloride	0.00789 U	B J	0.00757	0.0285	1	10/11/2019 07:17	WG1360525
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	10/11/2019 07:17	WG1360525

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000336	0.00114	1	10/11/2019 07:17	WG1360525
Naphthalene	U		0.00356	0.0143	1	10/11/2019 07:17	WG1360525
n-Propylbenzene	U		0.00135	0.00570	1	10/11/2019 07:17	WG1360525
Styrene	U		0.00311	0.0143	1	10/11/2019 07:17	WG1360525
1,1,1,2-Tetrachloroethane	U		0.000570	0.00285	1	10/11/2019 07:17	WG1360525
1,1,2,2-Tetrachloroethane	U		0.000445	0.00285	1	10/11/2019 07:17	WG1360525
1,1,2-Trichlorotrifluoroethane	U		0.000770	0.00285	1	10/11/2019 07:17	WG1360525
Tetrachloroethene	U		0.000798	0.00285	1	10/11/2019 07:17	WG1360525
Toluene	0.0107		0.00143	0.00570	1	10/11/2019 07:17	WG1360525
1,2,3-Trichlorobenzene	U		0.000713	0.00285	1	10/11/2019 07:17	WG1360525
1,2,4-Trichlorobenzene	U		0.00550	0.0143	1	10/11/2019 07:17	WG1360525
1,1,1-Trichloroethane	U		0.000314	0.00285	1	10/11/2019 07:17	WG1360525
1,1,2-Trichloroethane	U		0.00101	0.00285	1	10/11/2019 07:17	WG1360525
Trichloroethene	U		0.000456	0.00114	1	10/11/2019 07:17	WG1360525
Trichlorofluoromethane	U		0.000570	0.00285	1	10/11/2019 07:17	WG1360525
1,2,3-Trichloropropane	U		0.00582	0.0143	1	10/11/2019 07:17	WG1360525
1,2,4-Trimethylbenzene	0.00146	J	0.00132	0.00570	1	10/11/2019 07:17	WG1360525
1,2,3-Trimethylbenzene	U		0.00131	0.00570	1	10/11/2019 07:17	WG1360525
1,3,5-Trimethylbenzene	U		0.00123	0.00570	1	10/11/2019 07:17	WG1360525
Vinyl acetate	U		0.00401	0.0143	1	10/11/2019 07:17	WG1360525
Vinyl chloride	U		0.000779	0.00285	1	10/11/2019 07:17	WG1360525
Xylenes, Total	U		0.00545	0.00741	1	10/11/2019 07:17	WG1360525
(S) Toluene-d8	*106*			*75.0-131*		*10/11/2019 07:17*	WG1360525
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/11/2019 07:17*	WG1360525
(S) 1,2-Dichloroethane-d4	*96.9*			*70.0-130*		*10/11/2019 07:17*	WG1360525

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.2		1	10/08/2019 11:42	WG1358897

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Acetone	0.0460	J	0.0291	0.0531	2	10/11/2019 07:38	WG1360525	
Acrylonitrile	U		0.00404	0.0265	2	10/11/2019 07:38	WG1360525	
Benzene	U		0.000850	0.00212	2	10/11/2019 07:38	WG1360525	
Bromobenzene	U		0.00223	0.0265	2	10/11/2019 07:38	WG1360525	
Bromodichloromethane	U		0.00168	0.00531	2	10/11/2019 07:38	WG1360525	
Bromochloromethane	U		0.00240	0.0106	2	10/11/2019 07:38	WG1360525	
Bromoform	U		0.0127	0.0531	2	10/11/2019 07:38	WG1360525	
Bromomethane	U		0.00786	0.0265	2	10/11/2019 07:38	WG1360525	
n-Butylbenzene	U		0.00816	0.0265	2	10/11/2019 07:38	WG1360525	
sec-Butylbenzene	U		0.00537	0.0265	2	10/11/2019 07:38	WG1360525	
tert-Butylbenzene	U		0.00329	0.0106	2	10/11/2019 07:38	WG1360525	
Carbon disulfide	U		0.00862	0.0265	2	10/11/2019 07:38	WG1360525	
Carbon tetrachloride	U		0.00229	0.0106	2	10/11/2019 07:38	WG1360525	
Chlorobenzene	U		0.00122	0.00531	2	10/11/2019 07:38	WG1360525	
Chlorodibromomethane	U		0.000956	0.00531	2	10/11/2019 07:38	WG1360525	
Chloroethane	U		0.00229	0.0106	2	10/11/2019 07:38	WG1360525	
Chloroform	0.00143 U	B J	0.000881	0.00531	2	10/11/2019 07:38	WG1360525	
Chloromethane	U		0.00295	0.0265	2	10/11/2019 07:38	WG1360525	
2-Chlorotoluene	U		0.00195	0.00531	2	10/11/2019 07:38	WG1360525	
4-Chlorotoluene	U		0.00240	0.0106	2	10/11/2019 07:38	WG1360525	
1,2-Dibromo-3-Chloropropane	U		0.0108	0.0531	2	10/11/2019 07:38	WG1360525	
1,2-Dibromoethane	U		0.00112	0.00531	2	10/11/2019 07:38	WG1360525	
Dibromomethane	U		0.00212	0.0106	2	10/11/2019 07:38	WG1360525	
1,2-Dichlorobenzene	U		0.00308	0.0106	2	10/11/2019 07:38	WG1360525	
1,3-Dichlorobenzene	U		0.00361	0.0106	2	10/11/2019 07:38	WG1360525	
1,4-Dichlorobenzene	U		0.00418	0.0106	2	10/11/2019 07:38	WG1360525	
Dichlorodifluoromethane	U		0.00174	0.00531	2	10/11/2019 07:38	WG1360525	
1,1-Dichloroethane	U		0.00122	0.00531	2	10/11/2019 07:38	WG1360525	
1,2-Dichloroethane	U		0.00101	0.00531	2	10/11/2019 07:38	WG1360525	
1,1-Dichloroethene	U		0.00106	0.00531	2	10/11/2019 07:38	WG1360525	
cis-1,2-Dichloroethene	0.00335	J	0.00147	0.00531	2	10/11/2019 07:38	WG1360525	
trans-1,2-Dichloroethene	U		0.00304	0.0106	2	10/11/2019 07:38	WG1360525	
1,2-Dichloropropane	U		0.00270	0.0106	2	10/11/2019 07:38	WG1360525	
1,1-Dichloropropene	U		0.00149	0.00531	2	10/11/2019 07:38	WG1360525	
1,3-Dichloropropane	U		0.00372	0.0106	2	10/11/2019 07:38	WG1360525	
cis-1,3-Dichloropropene	U		0.00144	0.00531	2	10/11/2019 07:38	WG1360525	
trans-1,3-Dichloropropene	U		0.00325	0.0106	2	10/11/2019 07:38	WG1360525	
trans-1,4-Dichloro-2-butene	U		0.00297	0.0106	2	10/11/2019 07:38	WG1360525	
2,2-Dichloropropane	U		0.00169	0.00531	2	10/11/2019 07:38	WG1360525	
Di-isopropyl ether	U		0.000743	0.00212	2	10/11/2019 07:38	WG1360525	
Ethylbenzene	U		0.00113	0.00531	2	10/11/2019 07:38	WG1360525	
Hexachloro-1,3-butadiene	U		0.0270	0.0531	2	10/11/2019 07:38	WG1360525	
2-Hexanone	U		0.0212	0.0531	2	10/11/2019 07:38	WG1360525	
n-Hexane	U		0.00225	0.0106	2	10/11/2019 07:38	WG1360525	
Iodomethane	U		0.0128	0.0265	2	10/11/2019 07:38	WG1360525	JC 11/1/19
Isopropylbenzene	U		0.00184	0.00531	2	10/11/2019 07:38	WG1360525	
p-Isopropyltoluene	U		0.00495	0.0106	2	10/11/2019 07:38	WG1360525	
2-Butanone (MEK)	U		0.0265	0.0531	2	10/11/2019 07:38	WG1360525	
Methylene Chloride	0.0142 U	B J	0.0141	0.0531	2	10/11/2019 07:38	WG1360525	
4-Methyl-2-pentanone (MIBK)	U		0.0212	0.0531	2	10/11/2019 07:38	WG1360525	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000627	0.00212	2	10/11/2019 07:38	WG1360525
Naphthalene	U		0.00663	0.0265	2	10/11/2019 07:38	WG1360525
n-Propylbenzene	U		0.00251	0.0106	2	10/11/2019 07:38	WG1360525
Styrene	U		0.00580	0.0265	2	10/11/2019 07:38	WG1360525
1,1,1,2-Tetrachloroethane	U		0.00106	0.00531	2	10/11/2019 07:38	WG1360525
1,1,2,2-Tetrachloroethane	U		0.000828	0.00531	2	10/11/2019 07:38	WG1360525
1,1,2-Trichlorotrifluoroethane	U		0.00143	0.00531	2	10/11/2019 07:38	WG1360525
Tetrachloroethene	U		0.00149	0.00531	2	10/11/2019 07:38	WG1360525
Toluene	0.0475		0.00265	0.0106	2	10/11/2019 07:38	WG1360525
1,2,3-Trichlorobenzene	U		0.00133	0.00531	2	10/11/2019 07:38	WG1360525
1,2,4-Trichlorobenzene	U		0.0102	0.0265	2	10/11/2019 07:38	WG1360525
1,1,1-Trichloroethane	U		0.000584	0.00531	2	10/11/2019 07:38	WG1360525
1,1,2-Trichloroethane	U		0.00188	0.00531	2	10/11/2019 07:38	WG1360525
Trichloroethene	U		0.000850	0.00212	2	10/11/2019 07:38	WG1360525
Trichlorofluoromethane	U		0.00106	0.00531	2	10/11/2019 07:38	WG1360525
1,2,3-Trichloropropane	U		0.0108	0.0265	2	10/11/2019 07:38	WG1360525
1,2,4-Trimethylbenzene	U		0.00246	0.0106	2	10/11/2019 07:38	WG1360525
1,2,3-Trimethylbenzene	U		0.00244	0.0106	2	10/11/2019 07:38	WG1360525
1,3,5-Trimethylbenzene	U		0.00229	0.0106	2	10/11/2019 07:38	WG1360525
Vinyl acetate	U		0.00748	0.0265	2	10/11/2019 07:38	WG1360525
Vinyl chloride	U		0.00145	0.00531	2	10/11/2019 07:38	WG1360525
Xylenes, Total	U		0.0102	0.0138	2	10/11/2019 07:38	WG1360525
(S) Toluene-d8	*104*			*75.0-131*		*10/11/2019 07:38*	WG1360525
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/11/2019 07:38*	WG1360525
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*10/11/2019 07:38*	WG1360525

Sample Narrative:

L1145065-06 WG1360525: Lowest possible dilution due to low sample volume.

JC 11/1/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.8		1	10/08/2019 11:42	WG1358897

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0190	J	0.0176	0.0321	1	10/11/2019 07:59	WG1360525
Acrylonitrile	U		0.00244	0.0161	1	10/11/2019 07:59	WG1360525
Benzene	U		0.000514	0.00129	1	10/11/2019 07:59	WG1360525
Bromobenzene	U		0.00135	0.0161	1	10/11/2019 07:59	WG1360525
Bromodichloromethane	U		0.00101	0.00321	1	10/11/2019 07:59	WG1360525
Bromochloromethane	U		0.00145	0.00643	1	10/11/2019 07:59	WG1360525
Bromoform	U		0.00769	0.0321	1	10/11/2019 07:59	WG1360525
Bromomethane	U		0.00476	0.0161	1	10/11/2019 07:59	WG1360525
n-Butylbenzene	U		0.00494	0.0161	1	10/11/2019 07:59	WG1360525
sec-Butylbenzene	U		0.00325	0.0161	1	10/11/2019 07:59	WG1360525
tert-Butylbenzene	U		0.00199	0.00643	1	10/11/2019 07:59	WG1360525
Carbon disulfide	U		0.00522	0.0161	1	10/11/2019 07:59	WG1360525
Carbon tetrachloride	U		0.00139	0.00643	1	10/11/2019 07:59	WG1360525
Chlorobenzene	U		0.000736	0.00321	1	10/11/2019 07:59	WG1360525
Chlorodibromomethane	U		0.000578	0.00321	1	10/11/2019 07:59	WG1360525
Chloroethane	U		0.00139	0.00643	1	10/11/2019 07:59	WG1360525
Chloroform	0.000952	U B J	0.000533	0.00321	1	10/11/2019 07:59	WG1360525
Chloromethane	U		0.00179	0.0161	1	10/11/2019 07:59	WG1360525
2-Chlorotoluene	U		0.00118	0.00321	1	10/11/2019 07:59	WG1360525
4-Chlorotoluene	U		0.00145	0.00643	1	10/11/2019 07:59	WG1360525
1,2-Dibromo-3-Chloropropane	U		0.00655	0.0321	1	10/11/2019 07:59	WG1360525
1,2-Dibromoethane	U		0.000675	0.00321	1	10/11/2019 07:59	WG1360525
Dibromomethane	U		0.00129	0.00643	1	10/11/2019 07:59	WG1360525
1,2-Dichlorobenzene	U		0.00186	0.00643	1	10/11/2019 07:59	WG1360525
1,3-Dichlorobenzene	U		0.00218	0.00643	1	10/11/2019 07:59	WG1360525
1,4-Dichlorobenzene	U		0.00253	0.00643	1	10/11/2019 07:59	WG1360525
Dichlorodifluoromethane	U		0.00105	0.00321	1	10/11/2019 07:59	WG1360525
1,1-Dichloroethane	U		0.000739	0.00321	1	10/11/2019 07:59	WG1360525
1,2-Dichloroethane	U		0.000611	0.00321	1	10/11/2019 07:59	WG1360525
1,1-Dichloroethene	U		0.000643	0.00321	1	10/11/2019 07:59	WG1360525
cis-1,2-Dichloroethene	0.00305	J	0.000887	0.00321	1	10/11/2019 07:59	WG1360525
trans-1,2-Dichloroethene	U		0.00184	0.00643	1	10/11/2019 07:59	WG1360525
1,2-Dichloropropane	U		0.00163	0.00643	1	10/11/2019 07:59	WG1360525
1,1-Dichloropropene	U		0.000900	0.00321	1	10/11/2019 07:59	WG1360525
1,3-Dichloropropane	U		0.00225	0.00643	1	10/11/2019 07:59	WG1360525
cis-1,3-Dichloropropene	U		0.000871	0.00321	1	10/11/2019 07:59	WG1360525
trans-1,3-Dichloropropene	U		0.00197	0.00643	1	10/11/2019 07:59	WG1360525
trans-1,4-Dichloro-2-butene	U		0.00180	0.00643	1	10/11/2019 07:59	WG1360525
2,2-Dichloropropane	U		0.00102	0.00321	1	10/11/2019 07:59	WG1360525
Di-isopropyl ether	U		0.000450	0.00129	1	10/11/2019 07:59	WG1360525
Ethylbenzene	U		0.000681	0.00321	1	10/11/2019 07:59	WG1360525
Hexachloro-1,3-butadiene	U		0.0163	0.0321	1	10/11/2019 07:59	WG1360525
2-Hexanone	U		0.0129	0.0321	1	10/11/2019 07:59	WG1360525
n-Hexane	U		0.00136	0.00643	1	10/11/2019 07:59	WG1360525
Iodomethane	U		0.00778	0.0161	1	10/11/2019 07:59	WG1360525
Isopropylbenzene	U		0.00111	0.00321	1	10/11/2019 07:59	WG1360525
p-Isopropyltoluene	U		0.00299	0.00643	1	10/11/2019 07:59	WG1360525
2-Butanone (MEK)	0.0204	U B J	0.0161	0.0321	1	10/11/2019 07:59	WG1360525
Methylene Chloride	0.00906	U B J	0.00853	0.0321	1	10/11/2019 07:59	WG1360525
4-Methyl-2-pentanone (MIBK)	U		0.0129	0.0321	1	10/11/2019 07:59	WG1360525

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000379	0.00129	1	10/11/2019 07:59	WG1360525
Naphthalene	U		0.00401	0.0161	1	10/11/2019 07:59	WG1360525
n-Propylbenzene	U		0.00152	0.00643	1	10/11/2019 07:59	WG1360525
Styrene	U		0.00351	0.0161	1	10/11/2019 07:59	WG1360525
1,1,1,2-Tetrachloroethane	U		0.000643	0.00321	1	10/11/2019 07:59	WG1360525
1,1,2,2-Tetrachloroethane	U		0.000501	0.00321	1	10/11/2019 07:59	WG1360525
1,1,2-Trichlorotrifluoroethane	U		0.000868	0.00321	1	10/11/2019 07:59	WG1360525
Tetrachloroethene	U		0.000900	0.00321	1	10/11/2019 07:59	WG1360525
Toluene	0.0141		0.00161	0.00643	1	10/11/2019 07:59	WG1360525
1,2,3-Trichlorobenzene	U		0.000803	0.00321	1	10/11/2019 07:59	WG1360525
1,2,4-Trichlorobenzene	U		0.00620	0.0161	1	10/11/2019 07:59	WG1360525
1,1,1-Trichloroethane	U		0.000353	0.00321	1	10/11/2019 07:59	WG1360525
1,1,2-Trichloroethane	U		0.00113	0.00321	1	10/11/2019 07:59	WG1360525
Trichloroethene	U		0.000514	0.00129	1	10/11/2019 07:59	WG1360525
Trichlorofluoromethane	U		0.000643	0.00321	1	10/11/2019 07:59	WG1360525
1,2,3-Trichloropropane	U		0.00655	0.0161	1	10/11/2019 07:59	WG1360525
1,2,4-Trimethylbenzene	U		0.00149	0.00643	1	10/11/2019 07:59	WG1360525
1,2,3-Trimethylbenzene	U		0.00148	0.00643	1	10/11/2019 07:59	WG1360525
1,3,5-Trimethylbenzene	U		0.00139	0.00643	1	10/11/2019 07:59	WG1360525
Vinyl acetate	U		0.00452	0.0161	1	10/11/2019 07:59	WG1360525
Vinyl chloride	U		0.000878	0.00321	1	10/11/2019 07:59	WG1360525
Xylenes, Total	U		0.00614	0.00835	1	10/11/2019 07:59	WG1360525
(S) Toluene-d8	*105*			*75.0-131*		*10/11/2019 07:59*	WG1360525
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/11/2019 07:59*	WG1360525
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*10/11/2019 07:59*	WG1360525

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.9		1	10/08/2019 11:42	WG1358897

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0176	0.0321	1	10/11/2019 08:20	WG1360525	
Acrylonitrile	U		0.00244	0.0161	1	10/11/2019 08:20	WG1360525	
Benzene	U		0.000514	0.00128	1	10/11/2019 08:20	WG1360525	
Bromobenzene	U		0.00135	0.0161	1	10/11/2019 08:20	WG1360525	
Bromodichloromethane	U		0.00101	0.00321	1	10/11/2019 08:20	WG1360525	
Bromochloromethane	U		0.00145	0.00642	1	10/11/2019 08:20	WG1360525	
Bromoform	U		0.00768	0.0321	1	10/11/2019 08:20	WG1360525	
Bromomethane	U		0.00475	0.0161	1	10/11/2019 08:20	WG1360525	
n-Butylbenzene	U		0.00493	0.0161	1	10/11/2019 08:20	WG1360525	
sec-Butylbenzene	U		0.00325	0.0161	1	10/11/2019 08:20	WG1360525	
tert-Butylbenzene	U		0.00199	0.00642	1	10/11/2019 08:20	WG1360525	
Carbon disulfide	U		0.00521	0.0161	1	10/11/2019 08:20	WG1360525	
Carbon tetrachloride	U		0.00139	0.00642	1	10/11/2019 08:20	WG1360525	
Chlorobenzene	U		0.000736	0.00321	1	10/11/2019 08:20	WG1360525	
Chlorodibromomethane	U		0.000578	0.00321	1	10/11/2019 08:20	WG1360525	
Chloroethane	U		0.00139	0.00642	1	10/11/2019 08:20	WG1360525	
Chloroform	0.000690	U B J	0.000533	0.00321	1	10/11/2019 08:20	WG1360525	
Chloromethane	U		0.00178	0.0161	1	10/11/2019 08:20	WG1360525	
2-Chlorotoluene	U		0.00118	0.00321	1	10/11/2019 08:20	WG1360525	
4-Chlorotoluene	U		0.00145	0.00642	1	10/11/2019 08:20	WG1360525	
1,2-Dibromo-3-Chloropropane	U		0.00655	0.0321	1	10/11/2019 08:20	WG1360525	
1,2-Dibromoethane	U		0.000674	0.00321	1	10/11/2019 08:20	WG1360525	
Dibromomethane	U		0.00128	0.00642	1	10/11/2019 08:20	WG1360525	
1,2-Dichlorobenzene	U		0.00186	0.00642	1	10/11/2019 08:20	WG1360525	
1,3-Dichlorobenzene	U		0.00218	0.00642	1	10/11/2019 08:20	WG1360525	
1,4-Dichlorobenzene	U		0.00253	0.00642	1	10/11/2019 08:20	WG1360525	
Dichlorodifluoromethane	U		0.00105	0.00321	1	10/11/2019 08:20	WG1360525	
1,1-Dichloroethane	U		0.000738	0.00321	1	10/11/2019 08:20	WG1360525	
1,2-Dichloroethane	U		0.000610	0.00321	1	10/11/2019 08:20	WG1360525	
1,1-Dichloroethene	U		0.000642	0.00321	1	10/11/2019 08:20	WG1360525	
cis-1,2-Dichloroethene	0.00321	J	0.000886	0.00321	1	10/11/2019 08:20	WG1360525	
trans-1,2-Dichloroethene	U		0.00184	0.00642	1	10/11/2019 08:20	WG1360525	
1,2-Dichloropropane	U		0.00163	0.00642	1	10/11/2019 08:20	WG1360525	
1,1-Dichloropropene	U		0.000899	0.00321	1	10/11/2019 08:20	WG1360525	
1,3-Dichloropropane	U		0.00225	0.00642	1	10/11/2019 08:20	WG1360525	
cis-1,3-Dichloropropene	U		0.000871	0.00321	1	10/11/2019 08:20	WG1360525	
trans-1,3-Dichloropropene	U		0.00196	0.00642	1	10/11/2019 08:20	WG1360525	
trans-1,4-Dichloro-2-butene	U		0.00180	0.00642	1	10/11/2019 08:20	WG1360525	
2,2-Dichloropropane	U		0.00102	0.00321	1	10/11/2019 08:20	WG1360525	
Di-isopropyl ether	U		0.000449	0.00128	1	10/11/2019 08:20	WG1360525	
Ethylbenzene	U		0.000681	0.00321	1	10/11/2019 08:20	WG1360525	
Hexachloro-1,3-butadiene	U		0.0163	0.0321	1	10/11/2019 08:20	WG1360525	
2-Hexanone	U		0.0128	0.0321	1	10/11/2019 08:20	WG1360525	
n-Hexane	0.00998		0.00136	0.00642	1	10/11/2019 08:20	WG1360525	
Iodomethane	U		0.00777	0.0161	1	10/11/2019 08:20	WG1360525	
Isopropylbenzene	U		0.00111	0.00321	1	10/11/2019 08:20	WG1360525	
p-Isopropyltoluene	U		0.00299	0.00642	1	10/11/2019 08:20	WG1360525	JC 11/1/19
2-Butanone (MEK)	0.0176	U B J	0.0161	0.0321	1	10/11/2019 08:20	WG1360525	
Methylene Chloride	0.00984	U B J	0.00853	0.0321	1	10/11/2019 08:20	WG1360525	
4-Methyl-2-pentanone (MIBK)	U		0.0128	0.0321	1	10/11/2019 08:20	WG1360525	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000379	0.00128	1	10/11/2019 08:20	WG1360525
Naphthalene	U		0.00401	0.0161	1	10/11/2019 08:20	WG1360525
n-Propylbenzene	U		0.00152	0.00642	1	10/11/2019 08:20	WG1360525
Styrene	U		0.00351	0.0161	1	10/11/2019 08:20	WG1360525
1,1,1,2-Tetrachloroethane	U		0.000642	0.00321	1	10/11/2019 08:20	WG1360525
1,1,2,2-Tetrachloroethane	U		0.000501	0.00321	1	10/11/2019 08:20	WG1360525
1,1,2-Trichlorotrifluoroethane	U		0.000867	0.00321	1	10/11/2019 08:20	WG1360525
Tetrachloroethene	U		0.000899	0.00321	1	10/11/2019 08:20	WG1360525
Toluene	0.0104		0.00161	0.00642	1	10/11/2019 08:20	WG1360525
1,2,3-Trichlorobenzene	U		0.000803	0.00321	1	10/11/2019 08:20	WG1360525
1,2,4-Trichlorobenzene	U		0.00619	0.0161	1	10/11/2019 08:20	WG1360525
1,1,1-Trichloroethane	U		0.000353	0.00321	1	10/11/2019 08:20	WG1360525
1,1,2-Trichloroethane	U		0.00113	0.00321	1	10/11/2019 08:20	WG1360525
Trichloroethene	U		0.000514	0.00128	1	10/11/2019 08:20	WG1360525
Trichlorofluoromethane	U		0.000642	0.00321	1	10/11/2019 08:20	WG1360525
1,2,3-Trichloropropane	U		0.00655	0.0161	1	10/11/2019 08:20	WG1360525
1,2,4-Trimethylbenzene	U		0.00149	0.00642	1	10/11/2019 08:20	WG1360525
1,2,3-Trimethylbenzene	U		0.00148	0.00642	1	10/11/2019 08:20	WG1360525
1,3,5-Trimethylbenzene	U		0.00139	0.00642	1	10/11/2019 08:20	WG1360525
Vinyl acetate	U		0.00452	0.0161	1	10/11/2019 08:20	WG1360525
Vinyl chloride	U		0.000877	0.00321	1	10/11/2019 08:20	WG1360525
Xylenes, Total	U		0.00614	0.00835	1	10/11/2019 08:20	WG1360525
(S) Toluene-d8	*104*			*75.0-131*		*10/11/2019 08:20*	WG1360525
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*		*10/11/2019 08:20*	WG1360525
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*		*10/11/2019 08:20*	WG1360525

JC 11/1/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.2		1	10/08/2019 11:42	WG1358897

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	0.0209	J	0.0175	0.0320	1	10/11/2019 10:08	WG1360525	
Acrylonitrile	U		0.00243	0.0160	1	10/11/2019 10:08	WG1360525	
Benzene	U		0.000512	0.00128	1	10/11/2019 10:08	WG1360525	
Bromobenzene	U		0.00134	0.0160	1	10/11/2019 10:08	WG1360525	
Bromodichloromethane	U		0.00101	0.00320	1	10/11/2019 10:08	WG1360525	
Bromochloromethane	U		0.00145	0.00640	1	10/11/2019 10:08	WG1360525	
Bromoform	U		0.00765	0.0320	1	10/11/2019 10:08	WG1360525	
Bromomethane	U		0.00473	0.0160	1	10/11/2019 10:08	WG1360525	
n-Butylbenzene	U		0.00491	0.0160	1	10/11/2019 10:08	WG1360525	
sec-Butylbenzene	U		0.00324	0.0160	1	10/11/2019 10:08	WG1360525	
tert-Butylbenzene	U		0.00198	0.00640	1	10/11/2019 10:08	WG1360525	
Carbon disulfide	U		0.00519	0.0160	1	10/11/2019 10:08	WG1360525	
Carbon tetrachloride	U		0.00138	0.00640	1	10/11/2019 10:08	WG1360525	
Chlorobenzene	U		0.000733	0.00320	1	10/11/2019 10:08	WG1360525	
Chlorodibromomethane	U		0.000576	0.00320	1	10/11/2019 10:08	WG1360525	
Chloroethane	U		0.00138	0.00640	1	10/11/2019 10:08	WG1360525	
Chloroform	U		0.000531	0.00320	1	10/11/2019 10:08	WG1360525	
Chloromethane	U		0.00178	0.0160	1	10/11/2019 10:08	WG1360525	
2-Chlorotoluene	U		0.00118	0.00320	1	10/11/2019 10:08	WG1360525	
4-Chlorotoluene	U		0.00145	0.00640	1	10/11/2019 10:08	WG1360525	
1,2-Dibromo-3-Chloropropane	U		0.00652	0.0320	1	10/11/2019 10:08	WG1360525	
1,2-Dibromoethane	U		0.000672	0.00320	1	10/11/2019 10:08	WG1360525	
Dibromomethane	U		0.00128	0.00640	1	10/11/2019 10:08	WG1360525	
1,2-Dichlorobenzene	U		0.00186	0.00640	1	10/11/2019 10:08	WG1360525	
1,3-Dichlorobenzene	U		0.00217	0.00640	1	10/11/2019 10:08	WG1360525	
1,4-Dichlorobenzene	U		0.00252	0.00640	1	10/11/2019 10:08	WG1360525	
Dichlorodifluoromethane	U		0.00105	0.00320	1	10/11/2019 10:08	WG1360525	
1,1-Dichloroethane	U		0.000736	0.00320	1	10/11/2019 10:08	WG1360525	
1,2-Dichloroethane	U		0.000608	0.00320	1	10/11/2019 10:08	WG1360525	
1,1-Dichloroethene	U		0.000640	0.00320	1	10/11/2019 10:08	WG1360525	
cis-1,2-Dichloroethene	U		0.000883	0.00320	1	10/11/2019 10:08	WG1360525	
trans-1,2-Dichloroethene	U		0.00183	0.00640	1	10/11/2019 10:08	WG1360525	
1,2-Dichloropropane	U		0.00162	0.00640	1	10/11/2019 10:08	WG1360525	
1,1-Dichloropropene	U		0.000896	0.00320	1	10/11/2019 10:08	WG1360525	
1,3-Dichloropropane	U		0.00224	0.00640	1	10/11/2019 10:08	WG1360525	
cis-1,3-Dichloropropene	U		0.000867	0.00320	1	10/11/2019 10:08	WG1360525	
trans-1,3-Dichloropropene	U		0.00196	0.00640	1	10/11/2019 10:08	WG1360525	
trans-1,4-Dichloro-2-butene	U		0.00179	0.00640	1	10/11/2019 10:08	WG1360525	
2,2-Dichloropropane	U		0.00101	0.00320	1	10/11/2019 10:08	WG1360525	
Di-isopropyl ether	U		0.000448	0.00128	1	10/11/2019 10:08	WG1360525	
Ethylbenzene	U		0.000678	0.00320	1	10/11/2019 10:08	WG1360525	
Hexachloro-1,3-butadiene	U		0.0162	0.0320	1	10/11/2019 10:08	WG1360525	
2-Hexanone	U		0.0128	0.0320	1	10/11/2019 10:08	WG1360525	
n-Hexane	0.0265		0.00136	0.00640	1	10/11/2019 10:08	WG1360525	
Iodomethane	U		0.00774	0.0160	1	10/11/2019 10:08	WG1360525	
Isopropylbenzene	U		0.00110	0.00320	1	10/11/2019 10:08	WG1360525	
p-Isopropyltoluene	U		0.00298	0.00640	1	10/11/2019 10:08	WG1360525	
2-Butanone (MEK)	0.0179 U	B J	0.0160	0.0320	1	10/11/2019 10:08	WG1360525	JC 11/1/19
Methylene Chloride	U		0.00850	0.0320	1	10/11/2019 10:08	WG1360525	
4-Methyl-2-pentanone (MIBK)	U		0.0128	0.0320	1	10/11/2019 10:08	WG1360525	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000377	0.00128	1	10/11/2019 10:08	WG1360525
Naphthalene	0.0120	J	0.00399	0.0160	1	10/11/2019 10:08	WG1360525
n-Propylbenzene	U		0.00151	0.00640	1	10/11/2019 10:08	WG1360525
Styrene	U		0.00349	0.0160	1	10/11/2019 10:08	WG1360525
1,1,1,2-Tetrachloroethane	U		0.000640	0.00320	1	10/11/2019 10:08	WG1360525
1,1,2,2-Tetrachloroethane	U		0.000499	0.00320	1	10/11/2019 10:08	WG1360525
1,1,2-Trichlorotrifluoroethane	U		0.000864	0.00320	1	10/11/2019 10:08	WG1360525
Tetrachloroethene	U		0.000896	0.00320	1	10/11/2019 10:08	WG1360525
Toluene	0.0145		0.00160	0.00640	1	10/11/2019 10:08	WG1360525
1,2,3-Trichlorobenzene	U		0.000800	0.00320	1	10/11/2019 10:08	WG1360525
1,2,4-Trichlorobenzene	U		0.00617	0.0160	1	10/11/2019 10:08	WG1360525
1,1,1-Trichloroethane	U		0.000352	0.00320	1	10/11/2019 10:08	WG1360525
1,1,2-Trichloroethane	U		0.00113	0.00320	1	10/11/2019 10:08	WG1360525
Trichloroethene	U		0.000512	0.00128	1	10/11/2019 10:08	WG1360525
Trichlorofluoromethane	U		0.000640	0.00320	1	10/11/2019 10:08	WG1360525
1,2,3-Trichloropropane	U		0.00652	0.0160	1	10/11/2019 10:08	WG1360525
1,2,4-Trimethylbenzene	U		0.00148	0.00640	1	10/11/2019 10:08	WG1360525
1,2,3-Trimethylbenzene	U		0.00147	0.00640	1	10/11/2019 10:08	WG1360525
1,3,5-Trimethylbenzene	U		0.00138	0.00640	1	10/11/2019 10:08	WG1360525
Vinyl acetate	U		0.00450	0.0160	1	10/11/2019 10:08	WG1360525
Vinyl chloride	U		0.000874	0.00320	1	10/11/2019 10:08	WG1360525
Xylenes, Total	U		0.00612	0.00832	1	10/11/2019 10:08	WG1360525
(S) Toluene-d8	*105*			*75.0-131*		*10/11/2019 10:08*	WG1360525
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/11/2019 10:08*	WG1360525
(S) 1,2-Dichloroethane-d4	*98.1*			*70.0-130*		*10/11/2019 10:08*	WG1360525

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 11/1/19

MW-323-50

Collected date/time: 09/28/19 11:28

SAMPLE RESULTS - 10

L1145065

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	86.9		1	10/08/2019 11:27	WG1358898

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0295		0.0158	0.0288	1	10/11/2019 10:29	WG1360525
Acrylonitrile	U		0.00219	0.0144	1	10/11/2019 10:29	WG1360525
Benzene	0.000730	J	0.000460	0.00115	1	10/11/2019 10:29	WG1360525
Bromobenzene	U		0.00121	0.0144	1	10/11/2019 10:29	WG1360525
Bromodichloromethane	U		0.000907	0.00288	1	10/11/2019 10:29	WG1360525
Bromochloromethane	U		0.00130	0.00575	1	10/11/2019 10:29	WG1360525
Bromoform	U		0.00688	0.0288	1	10/11/2019 10:29	WG1360525
Bromomethane	U		0.00426	0.0144	1	10/11/2019 10:29	WG1360525
n-Butylbenzene	U		0.00442	0.0144	1	10/11/2019 10:29	WG1360525
sec-Butylbenzene	U		0.00291	0.0144	1	10/11/2019 10:29	WG1360525
tert-Butylbenzene	U		0.00178	0.00575	1	10/11/2019 10:29	WG1360525
Carbon disulfide	U		0.00467	0.0144	1	10/11/2019 10:29	WG1360525
Carbon tetrachloride	U		0.00124	0.00575	1	10/11/2019 10:29	WG1360525
Chlorobenzene	U		0.000660	0.00288	1	10/11/2019 10:29	WG1360525
Chlorodibromomethane	U		0.000518	0.00288	1	10/11/2019 10:29	WG1360525
Chloroethane	U		0.00124	0.00575	1	10/11/2019 10:29	WG1360525
Chloroform	U		0.000478	0.00288	1	10/11/2019 10:29	WG1360525
Chloromethane	U		0.00160	0.0144	1	10/11/2019 10:29	WG1360525
2-Chlorotoluene	U		0.00106	0.00288	1	10/11/2019 10:29	WG1360525
4-Chlorotoluene	U		0.00130	0.00575	1	10/11/2019 10:29	WG1360525
1,2-Dibromo-3-Chloropropane	U		0.00587	0.0288	1	10/11/2019 10:29	WG1360525
1,2-Dibromoethane	U		0.000604	0.00288	1	10/11/2019 10:29	WG1360525
Dibromomethane	U		0.00115	0.00575	1	10/11/2019 10:29	WG1360525
1,2-Dichlorobenzene	U		0.00167	0.00575	1	10/11/2019 10:29	WG1360525
1,3-Dichlorobenzene	U		0.00196	0.00575	1	10/11/2019 10:29	WG1360525
1,4-Dichlorobenzene	U		0.00227	0.00575	1	10/11/2019 10:29	WG1360525
Dichlorodifluoromethane	U		0.000942	0.00288	1	10/11/2019 10:29	WG1360525
1,1-Dichloroethane	U		0.000662	0.00288	1	10/11/2019 10:29	WG1360525
1,2-Dichloroethane	U		0.000547	0.00288	1	10/11/2019 10:29	WG1360525
1,1-Dichloroethene	U		0.000575	0.00288	1	10/11/2019 10:29	WG1360525
cis-1,2-Dichloroethene	0.00257	J	0.000794	0.00288	1	10/11/2019 10:29	WG1360525
trans-1,2-Dichloroethene	U		0.00165	0.00575	1	10/11/2019 10:29	WG1360525
1,2-Dichloropropane	U		0.00146	0.00575	1	10/11/2019 10:29	WG1360525
1,1-Dichloropropene	U		0.000806	0.00288	1	10/11/2019 10:29	WG1360525
1,3-Dichloropropane	U		0.00201	0.00575	1	10/11/2019 10:29	WG1360525
cis-1,3-Dichloropropene	U		0.000780	0.00288	1	10/11/2019 10:29	WG1360525
trans-1,3-Dichloropropene	U		0.00176	0.00575	1	10/11/2019 10:29	WG1360525
trans-1,4-Dichloro-2-butene	U		0.00161	0.00575	1	10/11/2019 10:29	WG1360525
2,2-Dichloropropane	U		0.000913	0.00288	1	10/11/2019 10:29	WG1360525
Di-isopropyl ether	U		0.000403	0.00115	1	10/11/2019 10:29	WG1360525
Ethylbenzene	U		0.000610	0.00288	1	10/11/2019 10:29	WG1360525
Hexachloro-1,3-butadiene	U		0.0146	0.0288	1	10/11/2019 10:29	WG1360525
2-Hexanone	U		0.0115	0.0288	1	10/11/2019 10:29	WG1360525
n-Hexane	0.0373		0.00122	0.00575	1	10/11/2019 10:29	WG1360525
Iodomethane	U		0.00696	0.0144	1	10/11/2019 10:29	WG1360525
Isopropylbenzene	U		0.000993	0.00288	1	10/11/2019 10:29	WG1360525
p-Isopropyltoluene	U		0.00268	0.00575	1	10/11/2019 10:29	WG1360525
2-Butanone (MEK)	0.0208 U	B J	0.0144	0.0288	1	10/11/2019 10:29	WG1360525
Methylene Chloride	U		0.00764	0.0288	1	10/11/2019 10:29	WG1360525
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0288	1	10/11/2019 10:29	WG1360525

JC 11/1/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000340	0.00115	1	10/11/2019 10:29	WG1360525
Naphthalene	U		0.00359	0.0144	1	10/11/2019 10:29	WG1360525
n-Propylbenzene	U		0.00136	0.00575	1	10/11/2019 10:29	WG1360525
Styrene	U		0.00314	0.0144	1	10/11/2019 10:29	WG1360525
1,1,1,2-Tetrachloroethane	U		0.000575	0.00288	1	10/11/2019 10:29	WG1360525
1,1,2,2-Tetrachloroethane	U		0.000449	0.00288	1	10/11/2019 10:29	WG1360525
1,1,2-Trichlorotrifluoroethane	U		0.000777	0.00288	1	10/11/2019 10:29	WG1360525
Tetrachloroethene	U		0.000806	0.00288	1	10/11/2019 10:29	WG1360525
Toluene	0.0193		0.00144	0.00575	1	10/11/2019 10:29	WG1360525
1,2,3-Trichlorobenzene	U		0.000719	0.00288	1	10/11/2019 10:29	WG1360525
1,2,4-Trichlorobenzene	U		0.00555	0.0144	1	10/11/2019 10:29	WG1360525
1,1,1-Trichloroethane	U		0.000317	0.00288	1	10/11/2019 10:29	WG1360525
1,1,2-Trichloroethane	U		0.00102	0.00288	1	10/11/2019 10:29	WG1360525
Trichloroethene	0.00121		0.000460	0.00115	1	10/11/2019 10:29	WG1360525
Trichlorofluoromethane	U		0.000575	0.00288	1	10/11/2019 10:29	WG1360525
1,2,3-Trichloropropane	U		0.00587	0.0144	1	10/11/2019 10:29	WG1360525
1,2,4-Trimethylbenzene	U		0.00134	0.00575	1	10/11/2019 10:29	WG1360525
1,2,3-Trimethylbenzene	U		0.00132	0.00575	1	10/11/2019 10:29	WG1360525
1,3,5-Trimethylbenzene	U		0.00124	0.00575	1	10/11/2019 10:29	WG1360525
Vinyl acetate	U		0.00405	0.0144	1	10/11/2019 10:29	WG1360525
Vinyl chloride	U		0.000786	0.00288	1	10/11/2019 10:29	WG1360525
Xylenes, Total	U		0.00550	0.00748	1	10/11/2019 10:29	WG1360525
(S) Toluene-d8	*105*			*75.0-131*		*10/11/2019 10:29*	WG1360525
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/11/2019 10:29*	WG1360525
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*10/11/2019 10:29*	WG1360525

JC 11/1/19

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.8		1	10/08/2019 11:27	WG1358898

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Acetone	0.0273	J	0.0160	0.0291	1	10/11/2019 10:50	WG1360525	
Acrylonitrile	U		0.00221	0.0146	1	10/11/2019 10:50	WG1360525	
Benzene	0.00179		0.000466	0.00117	1	10/11/2019 10:50	WG1360525	
Bromobenzene	U		0.00122	0.0146	1	10/11/2019 10:50	WG1360525	
Bromodichloromethane	U		0.000918	0.00291	1	10/11/2019 10:50	WG1360525	
Bromochloromethane	U		0.00132	0.00583	1	10/11/2019 10:50	WG1360525	
Bromoform	U		0.00697	0.0291	1	10/11/2019 10:50	WG1360525	
Bromomethane	U		0.00431	0.0146	1	10/11/2019 10:50	WG1360525	
n-Butylbenzene	U		0.00447	0.0146	1	10/11/2019 10:50	WG1360525	
sec-Butylbenzene	U		0.00295	0.0146	1	10/11/2019 10:50	WG1360525	
tert-Butylbenzene	U		0.00181	0.00583	1	10/11/2019 10:50	WG1360525	
Carbon disulfide	U		0.00473	0.0146	1	10/11/2019 10:50	WG1360525	
Carbon tetrachloride	U		0.00126	0.00583	1	10/11/2019 10:50	WG1360525	
Chlorobenzene	U		0.000668	0.00291	1	10/11/2019 10:50	WG1360525	
Chlorodibromomethane	U		0.000524	0.00291	1	10/11/2019 10:50	WG1360525	
Chloroethane	U		0.00126	0.00583	1	10/11/2019 10:50	WG1360525	
Chloroform	U		0.000484	0.00291	1	10/11/2019 10:50	WG1360525	
Chloromethane	U		0.00162	0.0146	1	10/11/2019 10:50	WG1360525	
2-Chlorotoluene	U		0.00107	0.00291	1	10/11/2019 10:50	WG1360525	
4-Chlorotoluene	U		0.00132	0.00583	1	10/11/2019 10:50	WG1360525	
1,2-Dibromo-3-Chloropropane	U		0.00594	0.0291	1	10/11/2019 10:50	WG1360525	
1,2-Dibromoethane	U		0.000612	0.00291	1	10/11/2019 10:50	WG1360525	
Dibromomethane	U		0.00117	0.00583	1	10/11/2019 10:50	WG1360525	
1,2-Dichlorobenzene	U		0.00169	0.00583	1	10/11/2019 10:50	WG1360525	
1,3-Dichlorobenzene	U		0.00198	0.00583	1	10/11/2019 10:50	WG1360525	
1,4-Dichlorobenzene	U		0.00230	0.00583	1	10/11/2019 10:50	WG1360525	
Dichlorodifluoromethane	U		0.000953	0.00291	1	10/11/2019 10:50	WG1360525	
1,1-Dichloroethane	U		0.000670	0.00291	1	10/11/2019 10:50	WG1360525	
1,2-Dichloroethane	U		0.000553	0.00291	1	10/11/2019 10:50	WG1360525	
1,1-Dichloroethene	0.000733	J	0.000583	0.00291	1	10/11/2019 10:50	WG1360525	
cis-1,2-Dichloroethene	0.682		0.000804	0.00291	1	10/11/2019 10:50	WG1360525	
trans-1,2-Dichloroethene	0.00530	J	0.00167	0.00583	1	10/11/2019 10:50	WG1360525	
1,2-Dichloropropane	U		0.00148	0.00583	1	10/11/2019 10:50	WG1360525	
1,1-Dichloropropene	U		0.000816	0.00291	1	10/11/2019 10:50	WG1360525	
1,3-Dichloropropane	U		0.00204	0.00583	1	10/11/2019 10:50	WG1360525	
cis-1,3-Dichloropropene	U		0.000790	0.00291	1	10/11/2019 10:50	WG1360525	
trans-1,3-Dichloropropene	U		0.00178	0.00583	1	10/11/2019 10:50	WG1360525	
trans-1,4-Dichloro-2-butene	U		0.00163	0.00583	1	10/11/2019 10:50	WG1360525	
2,2-Dichloropropane	U		0.000924	0.00291	1	10/11/2019 10:50	WG1360525	
Di-isopropyl ether	U		0.000408	0.00117	1	10/11/2019 10:50	WG1360525	
Ethylbenzene	U		0.000618	0.00291	1	10/11/2019 10:50	WG1360525	
Hexachloro-1,3-butadiene	U		0.0148	0.0291	1	10/11/2019 10:50	WG1360525	JC 11/1/19
2-Hexanone	U		0.0117	0.0291	1	10/11/2019 10:50	WG1360525	
n-Hexane	0.0289		0.00124	0.00583	1	10/11/2019 10:50	WG1360525	
Iodomethane	U		0.00705	0.0146	1	10/11/2019 10:50	WG1360525	
Isopropylbenzene	U		0.00101	0.00291	1	10/11/2019 10:50	WG1360525	
p-Isopropyltoluene	U		0.00271	0.00583	1	10/11/2019 10:50	WG1360525	
2-Butanone (MEK)	0.0205	U B J	0.0146	0.0291	1	10/11/2019 10:50	WG1360525	
Methylene Chloride	0.0102	U B J	0.00774	0.0291	1	10/11/2019 10:50	WG1360525	
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0291	1	10/11/2019 10:50	WG1360525	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	10/11/2019 10:50	WG1360525
Naphthalene	U		0.00364	0.0146	1	10/11/2019 10:50	WG1360525
n-Propylbenzene	U		0.00137	0.00583	1	10/11/2019 10:50	WG1360525
Styrene	U		0.00318	0.0146	1	10/11/2019 10:50	WG1360525
1,1,1,2-Tetrachloroethane	U		0.000583	0.00291	1	10/11/2019 10:50	WG1360525
1,1,2,2-Tetrachloroethane	U		0.000454	0.00291	1	10/11/2019 10:50	WG1360525
1,1,2-Trichlorotrifluoroethane	U		0.000787	0.00291	1	10/11/2019 10:50	WG1360525
Tetrachloroethene	0.120		0.000816	0.00291	1	10/11/2019 10:50	WG1360525
Toluene	0.0178		0.00146	0.00583	1	10/11/2019 10:50	WG1360525
1,2,3-Trichlorobenzene	U		0.000728	0.00291	1	10/11/2019 10:50	WG1360525
1,2,4-Trichlorobenzene	U		0.00562	0.0146	1	10/11/2019 10:50	WG1360525
1,1,1-Trichloroethane	U		0.000320	0.00291	1	10/11/2019 10:50	WG1360525
1,1,2-Trichloroethane	U		0.00103	0.00291	1	10/11/2019 10:50	WG1360525
Trichloroethene	0.0144		0.000466	0.00117	1	10/11/2019 10:50	WG1360525
Trichlorofluoromethane	U		0.000583	0.00291	1	10/11/2019 10:50	WG1360525
1,2,3-Trichloropropane	U		0.00594	0.0146	1	10/11/2019 10:50	WG1360525
1,2,4-Trimethylbenzene	U		0.00135	0.00583	1	10/11/2019 10:50	WG1360525
1,2,3-Trimethylbenzene	U		0.00134	0.00583	1	10/11/2019 10:50	WG1360525
1,3,5-Trimethylbenzene	U		0.00126	0.00583	1	10/11/2019 10:50	WG1360525
Vinyl acetate	U		0.00410	0.0146	1	10/11/2019 10:50	WG1360525
Vinyl chloride	0.00604		0.000796	0.00291	1	10/11/2019 10:50	WG1360525
Xylenes, Total	U		0.00557	0.00757	1	10/11/2019 10:50	WG1360525
(S) Toluene-d8	*107*			*75.0-131*		*10/11/2019 10:50*	WG1360525
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/11/2019 10:50*	WG1360525
(S) 1,2-Dichloroethane-d4	*96.0*			*70.0-130*		*10/11/2019 10:50*	WG1360525

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.8		1	10/08/2019 11:27	WG1358898

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0619		0.0175	0.0321	1.01	10/11/2019 11:11	WG1360525
Acrylonitrile	U		0.00244	0.0160	1.01	10/11/2019 11:11	WG1360525
Benzene	0.000767	J	0.000513	0.00128	1.01	10/11/2019 11:11	WG1360525
Bromobenzene	U		0.00135	0.0160	1.01	10/11/2019 11:11	WG1360525
Bromodichloromethane	U		0.00101	0.00321	1.01	10/11/2019 11:11	WG1360525
Bromochloromethane	U		0.00145	0.00641	1.01	10/11/2019 11:11	WG1360525
Bromoform	U		0.00767	0.0321	1.01	10/11/2019 11:11	WG1360525
Bromomethane	U		0.00475	0.0160	1.01	10/11/2019 11:11	WG1360525
n-Butylbenzene	U		0.00492	0.0160	1.01	10/11/2019 11:11	WG1360525
sec-Butylbenzene	U		0.00325	0.0160	1.01	10/11/2019 11:11	WG1360525
tert-Butylbenzene	U		0.00199	0.00641	1.01	10/11/2019 11:11	WG1360525
Carbon disulfide	U		0.00520	0.0160	1.01	10/11/2019 11:11	WG1360525
Carbon tetrachloride	U		0.00138	0.00641	1.01	10/11/2019 11:11	WG1360525
Chlorobenzene	U		0.000735	0.00321	1.01	10/11/2019 11:11	WG1360525
Chlorodibromomethane	U		0.000577	0.00321	1.01	10/11/2019 11:11	WG1360525
Chloroethane	U		0.00138	0.00641	1.01	10/11/2019 11:11	WG1360525
Chloroform	U		0.000532	0.00321	1.01	10/11/2019 11:11	WG1360525
Chloromethane	U		0.00178	0.0160	1.01	10/11/2019 11:11	WG1360525
2-Chlorotoluene	U		0.00118	0.00321	1.01	10/11/2019 11:11	WG1360525
4-Chlorotoluene	U		0.00145	0.00641	1.01	10/11/2019 11:11	WG1360525
1,2-Dibromo-3-Chloropropane	U		0.00654	0.0321	1.01	10/11/2019 11:11	WG1360525
1,2-Dibromoethane	U		0.000673	0.00321	1.01	10/11/2019 11:11	WG1360525
Dibromomethane	U		0.00128	0.00641	1.01	10/11/2019 11:11	WG1360525
1,2-Dichlorobenzene	U		0.00185	0.00641	1.01	10/11/2019 11:11	WG1360525
1,3-Dichlorobenzene	U		0.00218	0.00641	1.01	10/11/2019 11:11	WG1360525
1,4-Dichlorobenzene	U		0.00253	0.00641	1.01	10/11/2019 11:11	WG1360525
Dichlorodifluoromethane	U		0.00105	0.00321	1.01	10/11/2019 11:11	WG1360525
1,1-Dichloroethane	U		0.000737	0.00321	1.01	10/11/2019 11:11	WG1360525
1,2-Dichloroethane	U		0.000609	0.00321	1.01	10/11/2019 11:11	WG1360525
1,1-Dichloroethene	0.00201	J	0.000641	0.00321	1.01	10/11/2019 11:11	WG1360525
cis-1,2-Dichloroethene	2.13		0.000885	0.00321	1.01	10/11/2019 11:11	WG1360525
trans-1,2-Dichloroethene	0.0110		0.00183	0.00641	1.01	10/11/2019 11:11	WG1360525
1,2-Dichloropropane	U		0.00162	0.00641	1.01	10/11/2019 11:11	WG1360525
1,1-Dichloropropene	U		0.000897	0.00321	1.01	10/11/2019 11:11	WG1360525
1,3-Dichloropropane	U		0.00225	0.00641	1.01	10/11/2019 11:11	WG1360525
cis-1,3-Dichloropropene	U		0.000869	0.00321	1.01	10/11/2019 11:11	WG1360525
trans-1,3-Dichloropropene	U		0.00197	0.00641	1.01	10/11/2019 11:11	WG1360525
trans-1,4-Dichloro-2-butene	U		0.00179	0.00641	1.01	10/11/2019 11:11	WG1360525
2,2-Dichloropropane	U		0.00102	0.00321	1.01	10/11/2019 11:11	WG1360525
Di-isopropyl ether	U		0.000448	0.00128	1.01	10/11/2019 11:11	WG1360525
Ethylbenzene	0.00146	J	0.000679	0.00321	1.01	10/11/2019 11:11	WG1360525
Hexachloro-1,3-butadiene	U		0.0162	0.0321	1.01	10/11/2019 11:11	WG1360525
2-Hexanone	U		0.0128	0.0321	1.01	10/11/2019 11:11	WG1360525
n-Hexane	0.0289		0.00136	0.00641	1.01	10/11/2019 11:11	WG1360525
Iodomethane	U		0.00775	0.0160	1.01	10/11/2019 11:11	WG1360525
Isopropylbenzene	U		0.00111	0.00321	1.01	10/11/2019 11:11	WG1360525
p-Isopropyltoluene	U		0.00298	0.00641	1.01	10/11/2019 11:11	WG1360525
2-Butanone (MEK)	0.0282	U B J	0.0160	0.0321	1.01	10/11/2019 11:11	WG1360525
Methylene Chloride	0.0133	U B J	0.00852	0.0321	1.01	10/11/2019 11:11	WG1360525
4-Methyl-2-pentanone (MIBK)	U		0.0128	0.0321	1.01	10/11/2019 11:11	WG1360525

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000378	0.00128	1.01	10/11/2019 11:11	WG1360525
Naphthalene	U		0.00400	0.0160	1.01	10/11/2019 11:11	WG1360525
n-Propylbenzene	U		0.00151	0.00641	1.01	10/11/2019 11:11	WG1360525
Styrene	U		0.00350	0.0160	1.01	10/11/2019 11:11	WG1360525
1,1,1,2-Tetrachloroethane	U		0.000641	0.00321	1.01	10/11/2019 11:11	WG1360525
1,1,2,2-Tetrachloroethane	U		0.000500	0.00321	1.01	10/11/2019 11:11	WG1360525
1,1,2-Trichlorotrifluoroethane	U		0.000866	0.00321	1.01	10/11/2019 11:11	WG1360525
Tetrachloroethene	0.0806		0.000897	0.00321	1.01	10/11/2019 11:11	WG1360525
Toluene	0.0510		0.00160	0.00641	1.01	10/11/2019 11:11	WG1360525
1,2,3-Trichlorobenzene	U		0.000801	0.00321	1.01	10/11/2019 11:11	WG1360525
1,2,4-Trichlorobenzene	U		0.00618	0.0160	1.01	10/11/2019 11:11	WG1360525
1,1,1-Trichloroethane	U		0.000353	0.00321	1.01	10/11/2019 11:11	WG1360525
1,1,2-Trichloroethane	U		0.00113	0.00321	1.01	10/11/2019 11:11	WG1360525
Trichloroethene	0.0165		0.000513	0.00128	1.01	10/11/2019 11:11	WG1360525
Trichlorofluoromethane	U		0.000641	0.00321	1.01	10/11/2019 11:11	WG1360525
1,2,3-Trichloropropane	U		0.00654	0.0160	1.01	10/11/2019 11:11	WG1360525
1,2,4-Trimethylbenzene	U		0.00148	0.00641	1.01	10/11/2019 11:11	WG1360525
1,2,3-Trimethylbenzene	U		0.00147	0.00641	1.01	10/11/2019 11:11	WG1360525
1,3,5-Trimethylbenzene	U		0.00138	0.00641	1.01	10/11/2019 11:11	WG1360525
Vinyl acetate	U		0.00452	0.0160	1.01	10/11/2019 11:11	WG1360525
Vinyl chloride	0.0218		0.000876	0.00321	1.01	10/11/2019 11:11	WG1360525
Xylenes, Total	U		0.00613	0.00833	1.01	10/11/2019 11:11	WG1360525
(S) Toluene-d8	*103*			*75.0-131*		*10/11/2019 11:11*	WG1360525
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*10/11/2019 11:11*	WG1360525
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*		*10/11/2019 11:11*	WG1360525

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.2		1	10/08/2019 11:27	WG1358898

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0165	0.0300	1	10/11/2019 16:42	WG1360981
Acrylonitrile	U		0.00228	0.0150	1	10/11/2019 16:42	WG1360981
Benzene	U		0.000481	0.00120	1	10/11/2019 16:42	WG1360981
Bromobenzene	U		0.00126	0.0150	1	10/11/2019 16:42	WG1360981
Bromodichloromethane	U		0.000947	0.00300	1	10/11/2019 16:42	WG1360981
Bromochloromethane	U		0.00136	0.00601	1	10/11/2019 16:42	WG1360981
Bromoform	U		0.00719	0.0300	1	10/11/2019 16:42	WG1360981
Bromomethane	U		0.00445	0.0150	1	10/11/2019 16:42	WG1360981
n-Butylbenzene	U		0.00461	0.0150	1	10/11/2019 16:42	WG1360981
sec-Butylbenzene	U		0.00304	0.0150	1	10/11/2019 16:42	WG1360981
tert-Butylbenzene	U		0.00186	0.00601	1	10/11/2019 16:42	WG1360981
Carbon disulfide	U		0.00488	0.0150	1	10/11/2019 16:42	WG1360981
Carbon tetrachloride	U		0.00130	0.00601	1	10/11/2019 16:42	WG1360981
Chlorobenzene	U		0.000689	0.00300	1	10/11/2019 16:42	WG1360981
Chlorodibromomethane	U		0.000541	0.00300	1	10/11/2019 16:42	WG1360981
Chloroethane	U		0.00130	0.00601	1	10/11/2019 16:42	WG1360981
Chloroform	U		0.000499	0.00300	1	10/11/2019 16:42	WG1360981
Chloromethane	U		0.00167	0.0150	1	10/11/2019 16:42	WG1360981
2-Chlorotoluene	U		0.00111	0.00300	1	10/11/2019 16:42	WG1360981
4-Chlorotoluene	U		0.00136	0.00601	1	10/11/2019 16:42	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.00613	0.0300	1	10/11/2019 16:42	WG1360981
1,2-Dibromoethane	U		0.000631	0.00300	1	10/11/2019 16:42	WG1360981
Dibromomethane	U		0.00120	0.00601	1	10/11/2019 16:42	WG1360981
1,2-Dichlorobenzene	U		0.00174	0.00601	1	10/11/2019 16:42	WG1360981
1,3-Dichlorobenzene	U		0.00204	0.00601	1	10/11/2019 16:42	WG1360981
1,4-Dichlorobenzene	U		0.00237	0.00601	1	10/11/2019 16:42	WG1360981
Dichlorodifluoromethane	U UJ	J0	0.000983	0.00300	1	10/11/2019 16:42	WG1360981
1,1-Dichloroethane	U		0.000691	0.00300	1	10/11/2019 16:42	WG1360981
1,2-Dichloroethane	U		0.000571	0.00300	1	10/11/2019 16:42	WG1360981
1,1-Dichloroethene	U		0.000601	0.00300	1	10/11/2019 16:42	WG1360981
cis-1,2-Dichloroethene	3.03		0.000829	0.00300	1	10/11/2019 16:42	WG1360981
trans-1,2-Dichloroethene	0.0114		0.00172	0.00601	1	10/11/2019 16:42	WG1360981
1,2-Dichloropropane	U		0.00153	0.00601	1	10/11/2019 16:42	WG1360981
1,1-Dichloropropene	U		0.000841	0.00300	1	10/11/2019 16:42	WG1360981
1,3-Dichloropropane	U		0.00210	0.00601	1	10/11/2019 16:42	WG1360981
cis-1,3-Dichloropropene	U		0.000815	0.00300	1	10/11/2019 16:42	WG1360981
trans-1,3-Dichloropropene	U		0.00184	0.00601	1	10/11/2019 16:42	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00168	0.00601	1	10/11/2019 16:42	WG1360981
2,2-Dichloropropane	U UJ	J0	0.000953	0.00300	1	10/11/2019 16:42	WG1360981
Di-isopropyl ether	U		0.000421	0.00120	1	10/11/2019 16:42	WG1360981
Ethylbenzene	U		0.000637	0.00300	1	10/11/2019 16:42	WG1360981
Hexachloro-1,3-butadiene	U		0.0153	0.0300	1	10/11/2019 16:42	WG1360981
2-Hexanone	U		0.0120	0.0300	1	10/11/2019 16:42	WG1360981
n-Hexane	0.0130		0.00127	0.00601	1	10/11/2019 16:42	WG1360981
Iodomethane	U		0.00727	0.0150	1	10/11/2019 16:42	WG1360981
Isopropylbenzene	U		0.00104	0.00300	1	10/11/2019 16:42	WG1360981
p-Isopropyltoluene	U		0.00280	0.00601	1	10/11/2019 16:42	WG1360981
2-Butanone (MEK)	0.0161 U	B J	0.0150	0.0300	1	10/11/2019 16:42	WG1360981
Methylene Chloride	0.0101	J	0.00798	0.0300	1	10/11/2019 16:42	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0300	1	10/11/2019 16:42	WG1360981

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000355	0.00120	1	10/11/2019 16:42	WG1360981
Naphthalene	U		0.00375	0.0150	1	10/11/2019 16:42	WG1360981
n-Propylbenzene	U		0.00142	0.00601	1	10/11/2019 16:42	WG1360981
Styrene	U		0.00328	0.0150	1	10/11/2019 16:42	WG1360981
1,1,1,2-Tetrachloroethane	U		0.000601	0.00300	1	10/11/2019 16:42	WG1360981
1,1,2,2-Tetrachloroethane	U		0.000469	0.00300	1	10/11/2019 16:42	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.000811	0.00300	1	10/11/2019 16:42	WG1360981
Tetrachloroethene	0.0696		0.000841	0.00300	1	10/11/2019 16:42	WG1360981
Toluene	0.00820		0.00150	0.00601	1	10/11/2019 16:42	WG1360981
1,2,3-Trichlorobenzene	U		0.000751	0.00300	1	10/11/2019 16:42	WG1360981
1,2,4-Trichlorobenzene	U		0.00579	0.0150	1	10/11/2019 16:42	WG1360981
1,1,1-Trichloroethane	U		0.000330	0.00300	1	10/11/2019 16:42	WG1360981
1,1,2-Trichloroethane	U		0.00106	0.00300	1	10/11/2019 16:42	WG1360981
Trichloroethene	0.0520		0.000481	0.00120	1	10/11/2019 16:42	WG1360981
Trichlorofluoromethane	U		0.000601	0.00300	1	10/11/2019 16:42	WG1360981
1,2,3-Trichloropropane	U		0.00613	0.0150	1	10/11/2019 16:42	WG1360981
1,2,4-Trimethylbenzene	U		0.00139	0.00601	1	10/11/2019 16:42	WG1360981
1,2,3-Trimethylbenzene	U		0.00138	0.00601	1	10/11/2019 16:42	WG1360981
1,3,5-Trimethylbenzene	U		0.00130	0.00601	1	10/11/2019 16:42	WG1360981
Vinyl acetate	U		0.00423	0.0150	1	10/11/2019 16:42	WG1360981
Vinyl chloride	0.0403		0.000821	0.00300	1	10/11/2019 16:42	WG1360981
Xylenes, Total	U		0.00574	0.00781	1	10/11/2019 16:42	WG1360981
(S) Toluene-d8	*105*			*75.0-131*		*10/11/2019 16:42*	WG1360981
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*10/11/2019 16:42*	WG1360981
(S) 1,2-Dichloroethane-d4	*96.0*			*70.0-130*		*10/11/2019 16:42*	WG1360981

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MW-323-70

Collected date/time: 09/28/19 12:17

SAMPLE RESULTS - 14

L1145065

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.6		1	10/08/2019 11:27	WG1358898

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	3.86	J	2.30	4.21	139	10/11/2019 22:54	WG1360981
Acrylonitrile	U		0.320	2.11	139	10/11/2019 22:54	WG1360981
Benzene	U		0.0673	0.168	139	10/11/2019 22:54	WG1360981
Bromobenzene	U		0.177	2.11	139	10/11/2019 22:54	WG1360981
Bromodichloromethane	U		0.133	0.421	139	10/11/2019 22:54	WG1360981
Bromochloromethane	U		0.190	0.841	139	10/11/2019 22:54	WG1360981
Bromoform	U		1.01	4.21	139	10/11/2019 22:54	WG1360981
Bromomethane	U		0.622	2.11	139	10/11/2019 22:54	WG1360981
n-Butylbenzene	U		0.646	2.11	139	10/11/2019 22:54	WG1360981
sec-Butylbenzene	U		0.426	2.11	139	10/11/2019 22:54	WG1360981
tert-Butylbenzene	U		0.260	0.841	139	10/11/2019 22:54	WG1360981
Carbon disulfide	U		0.683	2.11	139	10/11/2019 22:54	WG1360981
Carbon tetrachloride	U		0.182	0.841	139	10/11/2019 22:54	WG1360981
Chlorobenzene	U		0.0963	0.421	139	10/11/2019 22:54	WG1360981
Chlorodibromomethane	U		0.0756	0.421	139	10/11/2019 22:54	WG1360981
Chloroethane	U		0.182	0.841	139	10/11/2019 22:54	WG1360981
Chloroform	U		0.0698	0.421	139	10/11/2019 22:54	WG1360981
Chloromethane	U		0.234	2.11	139	10/11/2019 22:54	WG1360981
2-Chlorotoluene	U		0.155	0.421	139	10/11/2019 22:54	WG1360981
4-Chlorotoluene	U		0.190	0.841	139	10/11/2019 22:54	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.858	4.21	139	10/11/2019 22:54	WG1360981
1,2-Dibromoethane	U		0.0884	0.421	139	10/11/2019 22:54	WG1360981
Dibromomethane	U		0.168	0.841	139	10/11/2019 22:54	WG1360981
1,2-Dichlorobenzene	U		0.244	0.841	139	10/11/2019 22:54	WG1360981
1,3-Dichlorobenzene	U		0.286	0.841	139	10/11/2019 22:54	WG1360981
1,4-Dichlorobenzene	U		0.332	0.841	139	10/11/2019 22:54	WG1360981
Dichlorodifluoromethane	U	UJ J0	0.138	0.421	139	10/11/2019 22:54	WG1360981
1,1-Dichloroethane	U		0.0967	0.421	139	10/11/2019 22:54	WG1360981
1,2-Dichloroethane	U		0.0799	0.421	139	10/11/2019 22:54	WG1360981
1,1-Dichloroethene	U		0.0841	0.421	139	10/11/2019 22:54	WG1360981
cis-1,2-Dichloroethene	U		0.116	0.421	139	10/11/2019 22:54	WG1360981
trans-1,2-Dichloroethene	U		0.241	0.841	139	10/11/2019 22:54	WG1360981
1,2-Dichloropropane	U		0.214	0.841	139	10/11/2019 22:54	WG1360981
1,1-Dichloropropene	U		0.118	0.421	139	10/11/2019 22:54	WG1360981
1,3-Dichloropropane	U		0.294	0.841	139	10/11/2019 22:54	WG1360981
cis-1,3-Dichloropropene	U		0.114	0.421	139	10/11/2019 22:54	WG1360981
trans-1,3-Dichloropropene	U		0.258	0.841	139	10/11/2019 22:54	WG1360981
trans-1,4-Dichloro-2-butene	U		0.236	0.841	139	10/11/2019 22:54	WG1360981
2,2-Dichloropropane	U	UJ J0	0.133	0.421	139	10/11/2019 22:54	WG1360981
Di-isopropyl ether	U		0.0589	0.168	139	10/11/2019 22:54	WG1360981
Ethylbenzene	U		0.0892	0.421	139	10/11/2019 22:54	WG1360981
Hexachloro-1,3-butadiene	U		2.14	4.21	139	10/11/2019 22:54	WG1360981
2-Hexanone	U		1.68	4.21	139	10/11/2019 22:54	WG1360981
n-Hexane	U		0.178	0.841	139	10/11/2019 22:54	WG1360981
Iodomethane	U		1.02	2.11	139	10/11/2019 22:54	WG1360981
Isopropylbenzene	U		0.145	0.421	139	10/11/2019 22:54	WG1360981
p-Isopropyltoluene	U		0.392	0.841	139	10/11/2019 22:54	WG1360981
2-Butanone (MEK)	U		2.11	4.21	139	10/11/2019 22:54	WG1360981
Methylene Chloride	1.15	J J	1.12	4.21	139	10/11/2019 22:54	WG1360981
4-Methyl-2-pentanone (MIBK)	U		1.68	4.21	139	10/11/2019 22:54	WG1360981

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0496	0.168	139	10/11/2019 22:54	WG1360981
Naphthalene	27.6	R	0.525	2.11	139	10/11/2019 22:54	WG1360981
Naphthalene	U	UJ Q	0.525	2.11	139	10/13/2019 17:53	WG1362254
n-Propylbenzene	U		0.198	0.841	139	10/11/2019 22:54	WG1360981
Styrene	U		0.459	2.11	139	10/11/2019 22:54	WG1360981
1,1,1,2-Tetrachloroethane	U		0.0841	0.421	139	10/11/2019 22:54	WG1360981
1,1,2,2-Tetrachloroethane	U		0.0656	0.421	139	10/11/2019 22:54	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.114	0.421	139	10/11/2019 22:54	WG1360981
Tetrachloroethene	U		0.118	0.421	139	10/11/2019 22:54	WG1360981
Toluene	U		0.211	0.841	139	10/11/2019 22:54	WG1360981
1,2,3-Trichlorobenzene	U		0.105	0.421	139	10/11/2019 22:54	WG1360981
1,2,4-Trichlorobenzene	U		0.811	2.11	139	10/11/2019 22:54	WG1360981
1,1,1-Trichloroethane	U		0.0462	0.421	139	10/11/2019 22:54	WG1360981
1,1,2-Trichloroethane	U		0.149	0.421	139	10/11/2019 22:54	WG1360981
Trichloroethene	U		0.0673	0.168	139	10/11/2019 22:54	WG1360981
Trichlorofluoromethane	U		0.0841	0.421	139	10/11/2019 22:54	WG1360981
1,2,3-Trichloropropane	U		0.858	2.11	139	10/11/2019 22:54	WG1360981
1,2,4-Trimethylbenzene	U		0.195	0.841	139	10/11/2019 22:54	WG1360981
1,2,3-Trimethylbenzene	U		0.194	0.841	139	10/11/2019 22:54	WG1360981
1,3,5-Trimethylbenzene	U		0.182	0.841	139	10/11/2019 22:54	WG1360981
Vinyl acetate	U		0.592	2.11	139	10/11/2019 22:54	WG1360981
Vinyl chloride	U		0.115	0.421	139	10/11/2019 22:54	WG1360981
Xylenes, Total	U		0.804	1.09	139	10/11/2019 22:54	WG1360981
(S) Toluene-d8	*104*			*75.0-131*		*10/11/2019 22:54*	WG1360981
(S) Toluene-d8	*109*			*75.0-131*		*10/13/2019 17:53*	WG1362254
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*10/11/2019 22:54*	WG1360981
(S) 4-Bromofluorobenzene	*95.9*			*67.0-138*		*10/13/2019 17:53*	WG1362254
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/11/2019 22:54*	WG1360981
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*10/13/2019 17:53*	WG1362254

Sample Narrative:

L1145065-14 WG1360981, WG1362254: Elevated RL due to limited sample volume. In hold naphthalene result is due to carryover.

L1145065-14 WG1360981, WG1362254: Reporting naphthalene in hold and out of hold data runs.

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.1		1	10/08/2019 11:27	WG1358898

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0297		0.0161	0.0294	1	10/11/2019 17:02	WG1360981
Acrylonitrile	U		0.00223	0.0147	1	10/11/2019 17:02	WG1360981
Benzene	U		0.000470	0.00118	1	10/11/2019 17:02	WG1360981
Bromobenzene	U		0.00123	0.0147	1	10/11/2019 17:02	WG1360981
Bromodichloromethane	U		0.000926	0.00294	1	10/11/2019 17:02	WG1360981
Bromochloromethane	U		0.00133	0.00588	1	10/11/2019 17:02	WG1360981
Bromoform	U		0.00703	0.0294	1	10/11/2019 17:02	WG1360981
Bromomethane	U		0.00435	0.0147	1	10/11/2019 17:02	WG1360981
n-Butylbenzene	U		0.00451	0.0147	1	10/11/2019 17:02	WG1360981
sec-Butylbenzene	U		0.00297	0.0147	1	10/11/2019 17:02	WG1360981
tert-Butylbenzene	U		0.00182	0.00588	1	10/11/2019 17:02	WG1360981
Carbon disulfide	U		0.00477	0.0147	1	10/11/2019 17:02	WG1360981
Carbon tetrachloride	U		0.00127	0.00588	1	10/11/2019 17:02	WG1360981
Chlorobenzene	U		0.000673	0.00294	1	10/11/2019 17:02	WG1360981
Chlorodibromomethane	U		0.000529	0.00294	1	10/11/2019 17:02	WG1360981
Chloroethane	U		0.00127	0.00588	1	10/11/2019 17:02	WG1360981
Chloroform	U		0.000488	0.00294	1	10/11/2019 17:02	WG1360981
Chloromethane	U		0.00163	0.0147	1	10/11/2019 17:02	WG1360981
2-Chlorotoluene	U		0.00108	0.00294	1	10/11/2019 17:02	WG1360981
4-Chlorotoluene	U		0.00133	0.00588	1	10/11/2019 17:02	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.00599	0.0294	1	10/11/2019 17:02	WG1360981
1,2-Dibromoethane	U		0.000617	0.00294	1	10/11/2019 17:02	WG1360981
Dibromomethane	U		0.00118	0.00588	1	10/11/2019 17:02	WG1360981
1,2-Dichlorobenzene	U		0.00170	0.00588	1	10/11/2019 17:02	WG1360981
1,3-Dichlorobenzene	U		0.00200	0.00588	1	10/11/2019 17:02	WG1360981
1,4-Dichlorobenzene	U		0.00231	0.00588	1	10/11/2019 17:02	WG1360981
Dichlorodifluoromethane	U UJ	J0	0.000961	0.00294	1	10/11/2019 17:02	WG1360981
1,1-Dichloroethane	U		0.000676	0.00294	1	10/11/2019 17:02	WG1360981
1,2-Dichloroethane	U		0.000558	0.00294	1	10/11/2019 17:02	WG1360981
1,1-Dichloroethene	U		0.000588	0.00294	1	10/11/2019 17:02	WG1360981
cis-1,2-Dichloroethene	2.13		0.000811	0.00294	1	10/11/2019 17:02	WG1360981
trans-1,2-Dichloroethene	0.00790		0.00168	0.00588	1	10/11/2019 17:02	WG1360981
1,2-Dichloropropane	U		0.00149	0.00588	1	10/11/2019 17:02	WG1360981
1,1-Dichloropropene	U		0.000823	0.00294	1	10/11/2019 17:02	WG1360981
1,3-Dichloropropane	U		0.00206	0.00588	1	10/11/2019 17:02	WG1360981
cis-1,3-Dichloropropene	U		0.000797	0.00294	1	10/11/2019 17:02	WG1360981
trans-1,3-Dichloropropene	U		0.00180	0.00588	1	10/11/2019 17:02	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00165	0.00588	1	10/11/2019 17:02	WG1360981
2,2-Dichloropropane	U UJ	J0	0.000932	0.00294	1	10/11/2019 17:02	WG1360981
Di-isopropyl ether	U		0.000411	0.00118	1	10/11/2019 17:02	WG1360981
Ethylbenzene	U		0.000623	0.00294	1	10/11/2019 17:02	WG1360981
Hexachloro-1,3-butadiene	U		0.0149	0.0294	1	10/11/2019 17:02	WG1360981
2-Hexanone	U		0.0118	0.0294	1	10/11/2019 17:02	WG1360981
n-Hexane	0.0159		0.00125	0.00588	1	10/11/2019 17:02	WG1360981
Iodomethane	U		0.00711	0.0147	1	10/11/2019 17:02	WG1360981
Isopropylbenzene	U		0.00101	0.00294	1	10/11/2019 17:02	WG1360981
p-Isopropyltoluene	U		0.00274	0.00588	1	10/11/2019 17:02	WG1360981
2-Butanone (MEK)	0.0221 U	B J	0.0147	0.0294	1	10/11/2019 17:02	WG1360981
Methylene Chloride	0.00973	J	0.00780	0.0294	1	10/11/2019 17:02	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0294	1	10/11/2019 17:02	WG1360981

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000347	0.00118	1	10/11/2019 17:02	WG1360981
Naphthalene	U		0.00367	0.0147	1	10/11/2019 17:02	WG1360981
n-Propylbenzene	U		0.00139	0.00588	1	10/11/2019 17:02	WG1360981
Styrene	U		0.00321	0.0147	1	10/11/2019 17:02	WG1360981
1,1,1,2-Tetrachloroethane	U		0.000588	0.00294	1	10/11/2019 17:02	WG1360981
1,1,2,2-Tetrachloroethane	U		0.000458	0.00294	1	10/11/2019 17:02	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.000793	0.00294	1	10/11/2019 17:02	WG1360981
Tetrachloroethene	0.0408		0.000823	0.00294	1	10/11/2019 17:02	WG1360981
Toluene	0.0181		0.00147	0.00588	1	10/11/2019 17:02	WG1360981
1,2,3-Trichlorobenzene	U		0.000734	0.00294	1	10/11/2019 17:02	WG1360981
1,2,4-Trichlorobenzene	U		0.00566	0.0147	1	10/11/2019 17:02	WG1360981
1,1,1-Trichloroethane	U		0.000323	0.00294	1	10/11/2019 17:02	WG1360981
1,1,2-Trichloroethane	U		0.00104	0.00294	1	10/11/2019 17:02	WG1360981
Trichloroethene	0.0322		0.000470	0.00118	1	10/11/2019 17:02	WG1360981
Trichlorofluoromethane	U		0.000588	0.00294	1	10/11/2019 17:02	WG1360981
1,2,3-Trichloropropane	U		0.00599	0.0147	1	10/11/2019 17:02	WG1360981
1,2,4-Trimethylbenzene	U		0.00136	0.00588	1	10/11/2019 17:02	WG1360981
1,2,3-Trimethylbenzene	U		0.00135	0.00588	1	10/11/2019 17:02	WG1360981
1,3,5-Trimethylbenzene	U		0.00127	0.00588	1	10/11/2019 17:02	WG1360981
Vinyl acetate	U		0.00414	0.0147	1	10/11/2019 17:02	WG1360981
Vinyl chloride	0.0186		0.000803	0.00294	1	10/11/2019 17:02	WG1360981
Xylenes, Total	U		0.00562	0.00764	1	10/11/2019 17:02	WG1360981
(S) Toluene-d8	*105*			*75.0-131*		*10/11/2019 17:02*	WG1360981
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/11/2019 17:02*	WG1360981
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*10/11/2019 17:02*	WG1360981

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	10/08/2019 11:27	WG1358898

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0164	J	0.0155	0.0283	1	10/11/2019 17:24	WG1360981
Acrylonitrile	U		0.00215	0.0141	1	10/11/2019 17:24	WG1360981
Benzene	U		0.000452	0.00113	1	10/11/2019 17:24	WG1360981
Bromobenzene	U		0.00119	0.0141	1	10/11/2019 17:24	WG1360981
Bromodichloromethane	U		0.000891	0.00283	1	10/11/2019 17:24	WG1360981
Bromochloromethane	U		0.00128	0.00565	1	10/11/2019 17:24	WG1360981
Bromoform	U		0.00676	0.0283	1	10/11/2019 17:24	WG1360981
Bromomethane	U		0.00418	0.0141	1	10/11/2019 17:24	WG1360981
n-Butylbenzene	U		0.00434	0.0141	1	10/11/2019 17:24	WG1360981
sec-Butylbenzene	U		0.00286	0.0141	1	10/11/2019 17:24	WG1360981
tert-Butylbenzene	U		0.00175	0.00565	1	10/11/2019 17:24	WG1360981
Carbon disulfide	U		0.00459	0.0141	1	10/11/2019 17:24	WG1360981
Carbon tetrachloride	U		0.00122	0.00565	1	10/11/2019 17:24	WG1360981
Chlorobenzene	U		0.000648	0.00283	1	10/11/2019 17:24	WG1360981
Chlorodibromomethane	U		0.000509	0.00283	1	10/11/2019 17:24	WG1360981
Chloroethane	U		0.00122	0.00565	1	10/11/2019 17:24	WG1360981
Chloroform	U		0.000469	0.00283	1	10/11/2019 17:24	WG1360981
Chloromethane	U		0.00157	0.0141	1	10/11/2019 17:24	WG1360981
2-Chlorotoluene	U		0.00104	0.00283	1	10/11/2019 17:24	WG1360981
4-Chlorotoluene	U		0.00128	0.00565	1	10/11/2019 17:24	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0283	1	10/11/2019 17:24	WG1360981
1,2-Dibromoethane	U		0.000593	0.00283	1	10/11/2019 17:24	WG1360981
Dibromomethane	U		0.00113	0.00565	1	10/11/2019 17:24	WG1360981
1,2-Dichlorobenzene	U		0.00164	0.00565	1	10/11/2019 17:24	WG1360981
1,3-Dichlorobenzene	U		0.00192	0.00565	1	10/11/2019 17:24	WG1360981
1,4-Dichlorobenzene	U		0.00223	0.00565	1	10/11/2019 17:24	WG1360981
Dichlorodifluoromethane	U	UJ J0	0.000924	0.00283	1	10/11/2019 17:24	WG1360981
1,1-Dichloroethane	U		0.000650	0.00283	1	10/11/2019 17:24	WG1360981
1,2-Dichloroethane	U		0.000537	0.00283	1	10/11/2019 17:24	WG1360981
1,1-Dichloroethene	U		0.000565	0.00283	1	10/11/2019 17:24	WG1360981
cis-1,2-Dichloroethene	0.453		0.000780	0.00283	1	10/11/2019 17:24	WG1360981
trans-1,2-Dichloroethene	U		0.00162	0.00565	1	10/11/2019 17:24	WG1360981
1,2-Dichloropropane	U		0.00144	0.00565	1	10/11/2019 17:24	WG1360981
1,1-Dichloropropene	U		0.000791	0.00283	1	10/11/2019 17:24	WG1360981
1,3-Dichloropropane	U		0.00198	0.00565	1	10/11/2019 17:24	WG1360981
cis-1,3-Dichloropropene	U		0.000766	0.00283	1	10/11/2019 17:24	WG1360981
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	10/11/2019 17:24	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	10/11/2019 17:24	WG1360981
2,2-Dichloropropane	U	UJ J0	0.000896	0.00283	1	10/11/2019 17:24	WG1360981
Di-isopropyl ether	U		0.000396	0.00113	1	10/11/2019 17:24	WG1360981
Ethylbenzene	U		0.000599	0.00283	1	10/11/2019 17:24	WG1360981
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	10/11/2019 17:24	WG1360981
2-Hexanone	U		0.0113	0.0283	1	10/11/2019 17:24	WG1360981
n-Hexane	0.0278		0.00120	0.00565	1	10/11/2019 17:24	WG1360981
Iodomethane	U		0.00684	0.0141	1	10/11/2019 17:24	WG1360981
Isopropylbenzene	U		0.000975	0.00283	1	10/11/2019 17:24	WG1360981
p-Isopropyltoluene	U		0.00263	0.00565	1	10/11/2019 17:24	WG1360981
2-Butanone (MEK)	0.0191	U B J	0.0141	0.0283	1	10/11/2019 17:24	WG1360981
Methylene Chloride	0.00919	J	0.00750	0.0283	1	10/11/2019 17:24	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	10/11/2019 17:24	WG1360981

JC 11/1/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	10/11/2019 17:24	WG1360981
Naphthalene	U		0.00353	0.0141	1	10/11/2019 17:24	WG1360981
n-Propylbenzene	U		0.00133	0.00565	1	10/11/2019 17:24	WG1360981
Styrene	U		0.00309	0.0141	1	10/11/2019 17:24	WG1360981
1,1,1,2-Tetrachloroethane	U		0.000565	0.00283	1	10/11/2019 17:24	WG1360981
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	10/11/2019 17:24	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00283	1	10/11/2019 17:24	WG1360981
Tetrachloroethene	0.0303		0.000791	0.00283	1	10/11/2019 17:24	WG1360981
Toluene	0.0101		0.00141	0.00565	1	10/11/2019 17:24	WG1360981
1,2,3-Trichlorobenzene	U		0.000706	0.00283	1	10/11/2019 17:24	WG1360981
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	10/11/2019 17:24	WG1360981
1,1,1-Trichloroethane	U		0.000311	0.00283	1	10/11/2019 17:24	WG1360981
1,1,2-Trichloroethane	U		0.000998	0.00283	1	10/11/2019 17:24	WG1360981
Trichloroethene	0.321		0.000452	0.00113	1	10/11/2019 17:24	WG1360981
Trichlorofluoromethane	U		0.000565	0.00283	1	10/11/2019 17:24	WG1360981
1,2,3-Trichloropropane	U		0.00576	0.0141	1	10/11/2019 17:24	WG1360981
1,2,4-Trimethylbenzene	U		0.00131	0.00565	1	10/11/2019 17:24	WG1360981
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	10/11/2019 17:24	WG1360981
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	10/11/2019 17:24	WG1360981
Vinyl acetate	U		0.00398	0.0141	1	10/11/2019 17:24	WG1360981
Vinyl chloride	0.00582		0.000772	0.00283	1	10/11/2019 17:24	WG1360981
Xylenes, Total	U		0.00540	0.00735	1	10/11/2019 17:24	WG1360981
(S) Toluene-d8	*104*			*75.0-131*		*10/11/2019 17:24*	WG1360981
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*10/11/2019 17:24*	WG1360981
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*10/11/2019 17:24*	WG1360981

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.5		1	10/08/2019 11:27	WG1358898

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0234	J	0.0164	0.0299	1	10/11/2019 17:43	WG1360981
Acrylonitrile	0.00457	J	0.00228	0.0150	1	10/11/2019 17:43	WG1360981
Benzene	U		0.000479	0.00120	1	10/11/2019 17:43	WG1360981
Bromobenzene	U		0.00126	0.0150	1	10/11/2019 17:43	WG1360981
Bromodichloromethane	U		0.000944	0.00299	1	10/11/2019 17:43	WG1360981
Bromochloromethane	U		0.00135	0.00599	1	10/11/2019 17:43	WG1360981
Bromoform	U		0.00716	0.0299	1	10/11/2019 17:43	WG1360981
Bromomethane	U		0.00443	0.0150	1	10/11/2019 17:43	WG1360981
n-Butylbenzene	U		0.00460	0.0150	1	10/11/2019 17:43	WG1360981
sec-Butylbenzene	U		0.00303	0.0150	1	10/11/2019 17:43	WG1360981
tert-Butylbenzene	U		0.00186	0.00599	1	10/11/2019 17:43	WG1360981
Carbon disulfide	U		0.00486	0.0150	1	10/11/2019 17:43	WG1360981
Carbon tetrachloride	U		0.00129	0.00599	1	10/11/2019 17:43	WG1360981
Chlorobenzene	U		0.000686	0.00299	1	10/11/2019 17:43	WG1360981
Chlorodibromomethane	U		0.000539	0.00299	1	10/11/2019 17:43	WG1360981
Chloroethane	U		0.00129	0.00599	1	10/11/2019 17:43	WG1360981
Chloroform	U		0.000497	0.00299	1	10/11/2019 17:43	WG1360981
Chloromethane	U		0.00166	0.0150	1	10/11/2019 17:43	WG1360981
2-Chlorotoluene	U		0.00110	0.00299	1	10/11/2019 17:43	WG1360981
4-Chlorotoluene	U		0.00135	0.00599	1	10/11/2019 17:43	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.00611	0.0299	1	10/11/2019 17:43	WG1360981
1,2-Dibromoethane	U		0.000629	0.00299	1	10/11/2019 17:43	WG1360981
Dibromomethane	U		0.00120	0.00599	1	10/11/2019 17:43	WG1360981
1,2-Dichlorobenzene	U		0.00174	0.00599	1	10/11/2019 17:43	WG1360981
1,3-Dichlorobenzene	U		0.00204	0.00599	1	10/11/2019 17:43	WG1360981
1,4-Dichlorobenzene	U		0.00236	0.00599	1	10/11/2019 17:43	WG1360981
Dichlorodifluoromethane	U UJ	J0	0.000980	0.00299	1	10/11/2019 17:43	WG1360981
1,1-Dichloroethane	U		0.000689	0.00299	1	10/11/2019 17:43	WG1360981
1,2-Dichloroethane	U		0.000569	0.00299	1	10/11/2019 17:43	WG1360981
1,1-Dichloroethene	U		0.000599	0.00299	1	10/11/2019 17:43	WG1360981
cis-1,2-Dichloroethene	0.794		0.000826	0.00299	1	10/11/2019 17:43	WG1360981
trans-1,2-Dichloroethene	0.00811		0.00171	0.00599	1	10/11/2019 17:43	WG1360981
1,2-Dichloropropane	U		0.00152	0.00599	1	10/11/2019 17:43	WG1360981
1,1-Dichloropropene	U		0.000838	0.00299	1	10/11/2019 17:43	WG1360981
1,3-Dichloropropane	U		0.00210	0.00599	1	10/11/2019 17:43	WG1360981
cis-1,3-Dichloropropene	U		0.000812	0.00299	1	10/11/2019 17:43	WG1360981
trans-1,3-Dichloropropene	U		0.00183	0.00599	1	10/11/2019 17:43	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00168	0.00599	1	10/11/2019 17:43	WG1360981
2,2-Dichloropropane	U UJ	J0	0.000950	0.00299	1	10/11/2019 17:43	WG1360981
Di-isopropyl ether	U		0.000419	0.00120	1	10/11/2019 17:43	WG1360981
Ethylbenzene	U		0.000635	0.00299	1	10/11/2019 17:43	WG1360981
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	10/11/2019 17:43	WG1360981
2-Hexanone	U		0.0120	0.0299	1	10/11/2019 17:43	WG1360981
n-Hexane	0.0298		0.00127	0.00599	1	10/11/2019 17:43	WG1360981
Iodomethane	U		0.00725	0.0150	1	10/11/2019 17:43	WG1360981
Isopropylbenzene	U		0.00103	0.00299	1	10/11/2019 17:43	WG1360981
p-Isopropyltoluene	U		0.00279	0.00599	1	10/11/2019 17:43	WG1360981
2-Butanone (MEK)	0.0196 U	B J	0.0150	0.0299	1	10/11/2019 17:43	WG1360981
Methylene Chloride	U		0.00795	0.0299	1	10/11/2019 17:43	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1	10/11/2019 17:43	WG1360981

JC 11/1/19

MW-323-85

Collected date/time: 09/28/19 14:50

SAMPLE RESULTS - 17

L1145065

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1	10/11/2019 17:43	WG1360981
Naphthalene	U		0.00374	0.0150	1	10/11/2019 17:43	WG1360981
n-Propylbenzene	U		0.00141	0.00599	1	10/11/2019 17:43	WG1360981
Styrene	U		0.00327	0.0150	1	10/11/2019 17:43	WG1360981
1,1,1,2-Tetrachloroethane	U		0.000599	0.00299	1	10/11/2019 17:43	WG1360981
1,1,2,2-Tetrachloroethane	U		0.000467	0.00299	1	10/11/2019 17:43	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.000808	0.00299	1	10/11/2019 17:43	WG1360981
Tetrachloroethene	0.0231		0.000838	0.00299	1	10/11/2019 17:43	WG1360981
Toluene	0.0140		0.00150	0.00599	1	10/11/2019 17:43	WG1360981
1,2,3-Trichlorobenzene	U		0.000748	0.00299	1	10/11/2019 17:43	WG1360981
1,2,4-Trichlorobenzene	U		0.00577	0.0150	1	10/11/2019 17:43	WG1360981
1,1,1-Trichloroethane	U		0.000329	0.00299	1	10/11/2019 17:43	WG1360981
1,1,2-Trichloroethane	U		0.00106	0.00299	1	10/11/2019 17:43	WG1360981
Trichloroethene	0.416		0.000479	0.00120	1	10/11/2019 17:43	WG1360981
Trichlorofluoromethane	U		0.000599	0.00299	1	10/11/2019 17:43	WG1360981
1,2,3-Trichloropropane	U		0.00611	0.0150	1	10/11/2019 17:43	WG1360981
1,2,4-Trimethylbenzene	U		0.00139	0.00599	1	10/11/2019 17:43	WG1360981
1,2,3-Trimethylbenzene	U		0.00138	0.00599	1	10/11/2019 17:43	WG1360981
1,3,5-Trimethylbenzene	U		0.00129	0.00599	1	10/11/2019 17:43	WG1360981
Vinyl acetate	U		0.00422	0.0150	1	10/11/2019 17:43	WG1360981
Vinyl chloride	0.0151		0.000818	0.00299	1	10/11/2019 17:43	WG1360981
Xylenes, Total	U		0.00572	0.00778	1	10/11/2019 17:43	WG1360981
(S) Toluene-d8	*106*			*75.0-131*		*10/11/2019 17:43*	WG1360981
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/11/2019 17:43*	WG1360981
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*10/11/2019 17:43*	WG1360981

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.9		1	10/08/2019 11:27	WG1358898

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0966		0.0388	0.0708	2.32	10/11/2019 18:04	WG1360981
Acrylonitrile	U		0.00539	0.0354	2.32	10/11/2019 18:04	WG1360981
Benzene	U		0.00113	0.00283	2.32	10/11/2019 18:04	WG1360981
Bromobenzene	U		0.00298	0.0354	2.32	10/11/2019 18:04	WG1360981
Bromodichloromethane	U		0.00223	0.00708	2.32	10/11/2019 18:04	WG1360981
Bromochloromethane	U		0.00320	0.0142	2.32	10/11/2019 18:04	WG1360981
Bromoform	U		0.0170	0.0708	2.32	10/11/2019 18:04	WG1360981
Bromomethane	U		0.0105	0.0354	2.32	10/11/2019 18:04	WG1360981
n-Butylbenzene	U		0.0109	0.0354	2.32	10/11/2019 18:04	WG1360981
sec-Butylbenzene	U		0.00717	0.0354	2.32	10/11/2019 18:04	WG1360981
tert-Butylbenzene	U		0.00440	0.0142	2.32	10/11/2019 18:04	WG1360981
Carbon disulfide	U		0.0115	0.0354	2.32	10/11/2019 18:04	WG1360981
Carbon tetrachloride	U		0.00307	0.0142	2.32	10/11/2019 18:04	WG1360981
Chlorobenzene	U		0.00162	0.00708	2.32	10/11/2019 18:04	WG1360981
Chlorodibromomethane	U		0.00127	0.00708	2.32	10/11/2019 18:04	WG1360981
Chloroethane	U		0.00307	0.0142	2.32	10/11/2019 18:04	WG1360981
Chloroform	U		0.00118	0.00708	2.32	10/11/2019 18:04	WG1360981
Chloromethane	U		0.00393	0.0354	2.32	10/11/2019 18:04	WG1360981
2-Chlorotoluene	U		0.00260	0.00708	2.32	10/11/2019 18:04	WG1360981
4-Chlorotoluene	U		0.00320	0.0142	2.32	10/11/2019 18:04	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.0144	0.0708	2.32	10/11/2019 18:04	WG1360981
1,2-Dibromoethane	U		0.00149	0.00708	2.32	10/11/2019 18:04	WG1360981
Dibromomethane	U		0.00283	0.0142	2.32	10/11/2019 18:04	WG1360981
1,2-Dichlorobenzene	U		0.00410	0.0142	2.32	10/11/2019 18:04	WG1360981
1,3-Dichlorobenzene	U		0.00481	0.0142	2.32	10/11/2019 18:04	WG1360981
1,4-Dichlorobenzene	U		0.00558	0.0142	2.32	10/11/2019 18:04	WG1360981
Dichlorodifluoromethane	U	UJ J0	0.00232	0.00708	2.32	10/11/2019 18:04	WG1360981
1,1-Dichloroethane	U		0.00162	0.00708	2.32	10/11/2019 18:04	WG1360981
1,2-Dichloroethane	U		0.00134	0.00708	2.32	10/11/2019 18:04	WG1360981
1,1-Dichloroethene	U		0.00142	0.00708	2.32	10/11/2019 18:04	WG1360981
cis-1,2-Dichloroethene	1.61		0.00195	0.00708	2.32	10/11/2019 18:04	WG1360981
trans-1,2-Dichloroethene	U		0.00405	0.0142	2.32	10/11/2019 18:04	WG1360981
1,2-Dichloropropane	U		0.00360	0.0142	2.32	10/11/2019 18:04	WG1360981
1,1-Dichloropropene	U		0.00198	0.00708	2.32	10/11/2019 18:04	WG1360981
1,3-Dichloropropane	U		0.00496	0.0142	2.32	10/11/2019 18:04	WG1360981
cis-1,3-Dichloropropene	U		0.00192	0.00708	2.32	10/11/2019 18:04	WG1360981
trans-1,3-Dichloropropene	U		0.00434	0.0142	2.32	10/11/2019 18:04	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00397	0.0142	2.32	10/11/2019 18:04	WG1360981
2,2-Dichloropropane	U	UJ J0	0.00225	0.00708	2.32	10/11/2019 18:04	WG1360981
Di-isopropyl ether	U		0.000992	0.00283	2.32	10/11/2019 18:04	WG1360981
Ethylbenzene	U		0.00150	0.00708	2.32	10/11/2019 18:04	WG1360981
Hexachloro-1,3-butadiene	U		0.0360	0.0708	2.32	10/11/2019 18:04	WG1360981
2-Hexanone	U		0.0283	0.0708	2.32	10/11/2019 18:04	WG1360981
n-Hexane	0.0145		0.00300	0.0142	2.32	10/11/2019 18:04	WG1360981
Iodomethane	U		0.0171	0.0354	2.32	10/11/2019 18:04	WG1360981
Isopropylbenzene	U		0.00244	0.00708	2.32	10/11/2019 18:04	WG1360981
p-Isopropyltoluene	U		0.00661	0.0142	2.32	10/11/2019 18:04	WG1360981
2-Butanone (MEK)	0.0390	U B J	0.0354	0.0708	2.32	10/11/2019 18:04	WG1360981
Methylene Chloride	0.0253	J	0.0188	0.0708	2.32	10/11/2019 18:04	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0283	0.0708	2.32	10/11/2019 18:04	WG1360981

JC 11/1/19

MW-323-91

Collected date/time: 09/28/19 14:52

SAMPLE RESULTS - 18

L1145065

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000835	0.00283	2.32	10/11/2019 18:04	WG1360981
Naphthalene	U		0.00884	0.0354	2.32	10/11/2019 18:04	WG1360981
n-Propylbenzene	U		0.00335	0.0142	2.32	10/11/2019 18:04	WG1360981
Styrene	U		0.00773	0.0354	2.32	10/11/2019 18:04	WG1360981
1,1,1,2-Tetrachloroethane	U		0.00142	0.00708	2.32	10/11/2019 18:04	WG1360981
1,1,2,2-Tetrachloroethane	U		0.00111	0.00708	2.32	10/11/2019 18:04	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.00192	0.00708	2.32	10/11/2019 18:04	WG1360981
Tetrachloroethene	0.0125		0.00198	0.00708	2.32	10/11/2019 18:04	WG1360981
Toluene	0.0482		0.00354	0.0142	2.32	10/11/2019 18:04	WG1360981
1,2,3-Trichlorobenzene	U		0.00177	0.00708	2.32	10/11/2019 18:04	WG1360981
1,2,4-Trichlorobenzene	U		0.0137	0.0354	2.32	10/11/2019 18:04	WG1360981
1,1,1-Trichloroethane	U		0.000779	0.00708	2.32	10/11/2019 18:04	WG1360981
1,1,2-Trichloroethane	U		0.00250	0.00708	2.32	10/11/2019 18:04	WG1360981
Trichloroethene	0.0990		0.00113	0.00283	2.32	10/11/2019 18:04	WG1360981
Trichlorofluoromethane	U		0.00142	0.00708	2.32	10/11/2019 18:04	WG1360981
1,2,3-Trichloropropane	U		0.0144	0.0354	2.32	10/11/2019 18:04	WG1360981
1,2,4-Trimethylbenzene	U		0.00328	0.0142	2.32	10/11/2019 18:04	WG1360981
1,2,3-Trimethylbenzene	U		0.00326	0.0142	2.32	10/11/2019 18:04	WG1360981
1,3,5-Trimethylbenzene	U		0.00307	0.0142	2.32	10/11/2019 18:04	WG1360981
Vinyl acetate	U		0.00998	0.0354	2.32	10/11/2019 18:04	WG1360981
Vinyl chloride	0.0225		0.00193	0.00708	2.32	10/11/2019 18:04	WG1360981
Xylenes, Total	U		0.0136	0.0184	2.32	10/11/2019 18:04	WG1360981
(S) Toluene-d8	*104*			*75.0-131*		*10/11/2019 18:04*	WG1360981
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*10/11/2019 18:04*	WG1360981
(S) 1,2-Dichloroethane-d4	*99.3*			*70.0-130*		*10/11/2019 18:04*	WG1360981

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.4		1	10/08/2019 11:27	WG1358898

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0212	J	0.0164	0.0300	1	10/11/2019 18:24	WG1360981
Acrylonitrile	U		0.00228	0.0150	1	10/11/2019 18:24	WG1360981
Benzene	U		0.000480	0.00120	1	10/11/2019 18:24	WG1360981
Bromobenzene	U		0.00126	0.0150	1	10/11/2019 18:24	WG1360981
Bromodichloromethane	U		0.000945	0.00300	1	10/11/2019 18:24	WG1360981
Bromochloromethane	U		0.00135	0.00599	1	10/11/2019 18:24	WG1360981
Bromoform	U		0.00717	0.0300	1	10/11/2019 18:24	WG1360981
Bromomethane	U		0.00444	0.0150	1	10/11/2019 18:24	WG1360981
n-Butylbenzene	U		0.00460	0.0150	1	10/11/2019 18:24	WG1360981
sec-Butylbenzene	U		0.00303	0.0150	1	10/11/2019 18:24	WG1360981
tert-Butylbenzene	U		0.00186	0.00599	1	10/11/2019 18:24	WG1360981
Carbon disulfide	U		0.00487	0.0150	1	10/11/2019 18:24	WG1360981
Carbon tetrachloride	U		0.00129	0.00599	1	10/11/2019 18:24	WG1360981
Chlorobenzene	U		0.000687	0.00300	1	10/11/2019 18:24	WG1360981
Chlorodibromomethane	U		0.000539	0.00300	1	10/11/2019 18:24	WG1360981
Chloroethane	U		0.00129	0.00599	1	10/11/2019 18:24	WG1360981
Chloroform	U		0.000498	0.00300	1	10/11/2019 18:24	WG1360981
Chloromethane	U		0.00167	0.0150	1	10/11/2019 18:24	WG1360981
2-Chlorotoluene	U		0.00110	0.00300	1	10/11/2019 18:24	WG1360981
4-Chlorotoluene	U		0.00135	0.00599	1	10/11/2019 18:24	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.00611	0.0300	1	10/11/2019 18:24	WG1360981
1,2-Dibromoethane	U		0.000629	0.00300	1	10/11/2019 18:24	WG1360981
Dibromomethane	U		0.00120	0.00599	1	10/11/2019 18:24	WG1360981
1,2-Dichlorobenzene	U		0.00174	0.00599	1	10/11/2019 18:24	WG1360981
1,3-Dichlorobenzene	U		0.00204	0.00599	1	10/11/2019 18:24	WG1360981
1,4-Dichlorobenzene	U		0.00236	0.00599	1	10/11/2019 18:24	WG1360981
Dichlorodifluoromethane	U	UJ J0	0.000981	0.00300	1	10/11/2019 18:24	WG1360981
1,1-Dichloroethane	U		0.000689	0.00300	1	10/11/2019 18:24	WG1360981
1,2-Dichloroethane	U		0.000569	0.00300	1	10/11/2019 18:24	WG1360981
1,1-Dichloroethene	U		0.000599	0.00300	1	10/11/2019 18:24	WG1360981
cis-1,2-Dichloroethene	0.433		0.000827	0.00300	1	10/11/2019 18:24	WG1360981
trans-1,2-Dichloroethene	U		0.00171	0.00599	1	10/11/2019 18:24	WG1360981
1,2-Dichloropropane	U		0.00152	0.00599	1	10/11/2019 18:24	WG1360981
1,1-Dichloropropene	U		0.000839	0.00300	1	10/11/2019 18:24	WG1360981
1,3-Dichloropropane	U		0.00210	0.00599	1	10/11/2019 18:24	WG1360981
cis-1,3-Dichloropropene	U		0.000813	0.00300	1	10/11/2019 18:24	WG1360981
trans-1,3-Dichloropropene	U		0.00183	0.00599	1	10/11/2019 18:24	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00168	0.00599	1	10/11/2019 18:24	WG1360981
2,2-Dichloropropane	U	UJ J0	0.000951	0.00300	1	10/11/2019 18:24	WG1360981
Di-isopropyl ether	U		0.000420	0.00120	1	10/11/2019 18:24	WG1360981
Ethylbenzene	U		0.000635	0.00300	1	10/11/2019 18:24	WG1360981
Hexachloro-1,3-butadiene	U		0.0152	0.0300	1	10/11/2019 18:24	WG1360981
2-Hexanone	U		0.0120	0.0300	1	10/11/2019 18:24	WG1360981
n-Hexane	0.0175		0.00127	0.00599	1	10/11/2019 18:24	WG1360981
Iodomethane	U		0.00725	0.0150	1	10/11/2019 18:24	WG1360981
Isopropylbenzene	U		0.00103	0.00300	1	10/11/2019 18:24	WG1360981
p-Isopropyltoluene	U		0.00279	0.00599	1	10/11/2019 18:24	WG1360981
2-Butanone (MEK)	0.0215	U B J	0.0150	0.0300	1	10/11/2019 18:24	WG1360981
Methylene Chloride	0.00910	J	0.00796	0.0300	1	10/11/2019 18:24	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0300	1	10/11/2019 18:24	WG1360981

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000354	0.00120	1	10/11/2019 18:24	WG1360981
Naphthalene	U		0.00374	0.0150	1	10/11/2019 18:24	WG1360981
n-Propylbenzene	U		0.00141	0.00599	1	10/11/2019 18:24	WG1360981
Styrene	U		0.00327	0.0150	1	10/11/2019 18:24	WG1360981
1,1,1,2-Tetrachloroethane	U		0.000599	0.00300	1	10/11/2019 18:24	WG1360981
1,1,2,2-Tetrachloroethane	U		0.000468	0.00300	1	10/11/2019 18:24	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.000809	0.00300	1	10/11/2019 18:24	WG1360981
Tetrachloroethene	0.00833		0.000839	0.00300	1	10/11/2019 18:24	WG1360981
Toluene	0.00831		0.00150	0.00599	1	10/11/2019 18:24	WG1360981
1,2,3-Trichlorobenzene	U		0.000749	0.00300	1	10/11/2019 18:24	WG1360981
1,2,4-Trichlorobenzene	U		0.00578	0.0150	1	10/11/2019 18:24	WG1360981
1,1,1-Trichloroethane	U		0.000330	0.00300	1	10/11/2019 18:24	WG1360981
1,1,2-Trichloroethane	U		0.00106	0.00300	1	10/11/2019 18:24	WG1360981
Trichloroethene	0.0303		0.000480	0.00120	1	10/11/2019 18:24	WG1360981
Trichlorofluoromethane	U		0.000599	0.00300	1	10/11/2019 18:24	WG1360981
1,2,3-Trichloropropane	U		0.00611	0.0150	1	10/11/2019 18:24	WG1360981
1,2,4-Trimethylbenzene	U		0.00139	0.00599	1	10/11/2019 18:24	WG1360981
1,2,3-Trimethylbenzene	U		0.00138	0.00599	1	10/11/2019 18:24	WG1360981
1,3,5-Trimethylbenzene	U		0.00129	0.00599	1	10/11/2019 18:24	WG1360981
Vinyl acetate	U		0.00422	0.0150	1	10/11/2019 18:24	WG1360981
Vinyl chloride	0.0195		0.000819	0.00300	1	10/11/2019 18:24	WG1360981
Xylenes, Total	U		0.00573	0.00779	1	10/11/2019 18:24	WG1360981
(S) Toluene-d8	*104*			*75.0-131*		*10/11/2019 18:24*	WG1360981
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*10/11/2019 18:24*	WG1360981
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*10/11/2019 18:24*	WG1360981

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.5		1	10/08/2019 11:01	WG1358899

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0198	J	0.0158	0.0289	1	10/11/2019 18:45	WG1360981
Acrylonitrile	U		0.00220	0.0145	1	10/11/2019 18:45	WG1360981
Benzene	U		0.000462	0.00116	1	10/11/2019 18:45	WG1360981
Bromobenzene	U		0.00121	0.0145	1	10/11/2019 18:45	WG1360981
Bromodichloromethane	U		0.000911	0.00289	1	10/11/2019 18:45	WG1360981
Bromochloromethane	U		0.00131	0.00578	1	10/11/2019 18:45	WG1360981
Bromoform	U		0.00691	0.0289	1	10/11/2019 18:45	WG1360981
Bromomethane	U		0.00428	0.0145	1	10/11/2019 18:45	WG1360981
n-Butylbenzene	U		0.00444	0.0145	1	10/11/2019 18:45	WG1360981
sec-Butylbenzene	U		0.00292	0.0145	1	10/11/2019 18:45	WG1360981
tert-Butylbenzene	U		0.00179	0.00578	1	10/11/2019 18:45	WG1360981
Carbon disulfide	U		0.00469	0.0145	1	10/11/2019 18:45	WG1360981
Carbon tetrachloride	U		0.00125	0.00578	1	10/11/2019 18:45	WG1360981
Chlorobenzene	U		0.000662	0.00289	1	10/11/2019 18:45	WG1360981
Chlorodibromomethane	U		0.000520	0.00289	1	10/11/2019 18:45	WG1360981
Chloroethane	U		0.00125	0.00578	1	10/11/2019 18:45	WG1360981
Chloroform	U		0.000480	0.00289	1	10/11/2019 18:45	WG1360981
Chloromethane	U		0.00161	0.0145	1	10/11/2019 18:45	WG1360981
2-Chlorotoluene	U		0.00106	0.00289	1	10/11/2019 18:45	WG1360981
4-Chlorotoluene	U		0.00131	0.00578	1	10/11/2019 18:45	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.00590	0.0289	1	10/11/2019 18:45	WG1360981
1,2-Dibromoethane	U		0.000607	0.00289	1	10/11/2019 18:45	WG1360981
Dibromomethane	U		0.00116	0.00578	1	10/11/2019 18:45	WG1360981
1,2-Dichlorobenzene	U		0.00168	0.00578	1	10/11/2019 18:45	WG1360981
1,3-Dichlorobenzene	U		0.00197	0.00578	1	10/11/2019 18:45	WG1360981
1,4-Dichlorobenzene	U		0.00228	0.00578	1	10/11/2019 18:45	WG1360981
Dichlorodifluoromethane	U	UJ J0	0.000946	0.00289	1	10/11/2019 18:45	WG1360981
1,1-Dichloroethane	U		0.000665	0.00289	1	10/11/2019 18:45	WG1360981
1,2-Dichloroethane	U		0.000549	0.00289	1	10/11/2019 18:45	WG1360981
1,1-Dichloroethene	U		0.000578	0.00289	1	10/11/2019 18:45	WG1360981
cis-1,2-Dichloroethene	0.325		0.000798	0.00289	1	10/11/2019 18:45	WG1360981
trans-1,2-Dichloroethene	U		0.00165	0.00578	1	10/11/2019 18:45	WG1360981
1,2-Dichloropropane	U		0.00147	0.00578	1	10/11/2019 18:45	WG1360981
1,1-Dichloropropene	U		0.000809	0.00289	1	10/11/2019 18:45	WG1360981
1,3-Dichloropropane	U		0.00202	0.00578	1	10/11/2019 18:45	WG1360981
cis-1,3-Dichloropropene	U		0.000784	0.00289	1	10/11/2019 18:45	WG1360981
trans-1,3-Dichloropropene	U		0.00177	0.00578	1	10/11/2019 18:45	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00162	0.00578	1	10/11/2019 18:45	WG1360981
2,2-Dichloropropane	U	UJ J0	0.000917	0.00289	1	10/11/2019 18:45	WG1360981
Di-isopropyl ether	U		0.000405	0.00116	1	10/11/2019 18:45	WG1360981
Ethylbenzene	U		0.000613	0.00289	1	10/11/2019 18:45	WG1360981
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1	10/11/2019 18:45	WG1360981
2-Hexanone	U		0.0116	0.0289	1	10/11/2019 18:45	WG1360981
n-Hexane	0.0188		0.00123	0.00578	1	10/11/2019 18:45	WG1360981
Iodomethane	U		0.00699	0.0145	1	10/11/2019 18:45	WG1360981
Isopropylbenzene	U		0.000998	0.00289	1	10/11/2019 18:45	WG1360981
p-Isopropyltoluene	U		0.00269	0.00578	1	10/11/2019 18:45	WG1360981
2-Butanone (MEK)	0.0215	U B J	0.0145	0.0289	1	10/11/2019 18:45	WG1360981
Methylene Chloride	0.00955	J	0.00768	0.0289	1	10/11/2019 18:45	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0289	1	10/11/2019 18:45	WG1360981

JC 11/1/19

MW-323-99

Collected date/time: 09/28/19 15:00

SAMPLE RESULTS - 20

L1145065

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000341	0.00116	1	10/11/2019 18:45	WG1360981
Naphthalene	U		0.00361	0.0145	1	10/11/2019 18:45	WG1360981
n-Propylbenzene	U		0.00136	0.00578	1	10/11/2019 18:45	WG1360981
Styrene	U		0.00316	0.0145	1	10/11/2019 18:45	WG1360981
1,1,1,2-Tetrachloroethane	U		0.000578	0.00289	1	10/11/2019 18:45	WG1360981
1,1,2,2-Tetrachloroethane	U		0.000451	0.00289	1	10/11/2019 18:45	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.000780	0.00289	1	10/11/2019 18:45	WG1360981
Tetrachloroethene	U		0.000809	0.00289	1	10/11/2019 18:45	WG1360981
Toluene	0.00869		0.00145	0.00578	1	10/11/2019 18:45	WG1360981
1,2,3-Trichlorobenzene	U		0.000723	0.00289	1	10/11/2019 18:45	WG1360981
1,2,4-Trichlorobenzene	U		0.00557	0.0145	1	10/11/2019 18:45	WG1360981
1,1,1-Trichloroethane	U		0.000318	0.00289	1	10/11/2019 18:45	WG1360981
1,1,2-Trichloroethane	U		0.00102	0.00289	1	10/11/2019 18:45	WG1360981
Trichloroethene	0.0115		0.000462	0.00116	1	10/11/2019 18:45	WG1360981
Trichlorofluoromethane	U		0.000578	0.00289	1	10/11/2019 18:45	WG1360981
1,2,3-Trichloropropane	U		0.00590	0.0145	1	10/11/2019 18:45	WG1360981
1,2,4-Trimethylbenzene	U		0.00134	0.00578	1	10/11/2019 18:45	WG1360981
1,2,3-Trimethylbenzene	U		0.00133	0.00578	1	10/11/2019 18:45	WG1360981
1,3,5-Trimethylbenzene	U		0.00125	0.00578	1	10/11/2019 18:45	WG1360981
Vinyl acetate	U		0.00407	0.0145	1	10/11/2019 18:45	WG1360981
Vinyl chloride	0.0146		0.000790	0.00289	1	10/11/2019 18:45	WG1360981
Xylenes, Total	U		0.00553	0.00751	1	10/11/2019 18:45	WG1360981
(S) Toluene-d8	*104*			*75.0-131*		*10/11/2019 18:45*	WG1360981
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/11/2019 18:45*	WG1360981
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*10/11/2019 18:45*	WG1360981

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.7		1	10/08/2019 11:01	WG1358899

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0201	J	0.0162	0.0295	1	10/11/2019 19:05	WG1360981
Acrylonitrile	U		0.00224	0.0148	1	10/11/2019 19:05	WG1360981
Benzene	U		0.000472	0.00118	1	10/11/2019 19:05	WG1360981
Bromobenzene	U		0.00124	0.0148	1	10/11/2019 19:05	WG1360981
Bromodichloromethane	U		0.000930	0.00295	1	10/11/2019 19:05	WG1360981
Bromochloromethane	U		0.00133	0.00590	1	10/11/2019 19:05	WG1360981
Bromoform	U		0.00706	0.0295	1	10/11/2019 19:05	WG1360981
Bromomethane	U		0.00437	0.0148	1	10/11/2019 19:05	WG1360981
n-Butylbenzene	U		0.00453	0.0148	1	10/11/2019 19:05	WG1360981
sec-Butylbenzene	U		0.00299	0.0148	1	10/11/2019 19:05	WG1360981
tert-Butylbenzene	U		0.00183	0.00590	1	10/11/2019 19:05	WG1360981
Carbon disulfide	U		0.00479	0.0148	1	10/11/2019 19:05	WG1360981
Carbon tetrachloride	U		0.00128	0.00590	1	10/11/2019 19:05	WG1360981
Chlorobenzene	U		0.000677	0.00295	1	10/11/2019 19:05	WG1360981
Chlorodibromomethane	U		0.000531	0.00295	1	10/11/2019 19:05	WG1360981
Chloroethane	U		0.00128	0.00590	1	10/11/2019 19:05	WG1360981
Chloroform	U		0.000490	0.00295	1	10/11/2019 19:05	WG1360981
Chloromethane	U		0.00164	0.0148	1	10/11/2019 19:05	WG1360981
2-Chlorotoluene	U		0.00109	0.00295	1	10/11/2019 19:05	WG1360981
4-Chlorotoluene	U		0.00133	0.00590	1	10/11/2019 19:05	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.00602	0.0295	1	10/11/2019 19:05	WG1360981
1,2-Dibromoethane	U		0.000620	0.00295	1	10/11/2019 19:05	WG1360981
Dibromomethane	U		0.00118	0.00590	1	10/11/2019 19:05	WG1360981
1,2-Dichlorobenzene	U		0.00171	0.00590	1	10/11/2019 19:05	WG1360981
1,3-Dichlorobenzene	U		0.00201	0.00590	1	10/11/2019 19:05	WG1360981
1,4-Dichlorobenzene	U		0.00233	0.00590	1	10/11/2019 19:05	WG1360981
Dichlorodifluoromethane	U UJ	J0	0.000966	0.00295	1	10/11/2019 19:05	WG1360981
1,1-Dichloroethane	U		0.000679	0.00295	1	10/11/2019 19:05	WG1360981
1,2-Dichloroethane	U		0.000561	0.00295	1	10/11/2019 19:05	WG1360981
1,1-Dichloroethene	U		0.000590	0.00295	1	10/11/2019 19:05	WG1360981
cis-1,2-Dichloroethene	U		0.000815	0.00295	1	10/11/2019 19:05	WG1360981
trans-1,2-Dichloroethene	U		0.00169	0.00590	1	10/11/2019 19:05	WG1360981
1,2-Dichloropropane	U		0.00150	0.00590	1	10/11/2019 19:05	WG1360981
1,1-Dichloropropene	U		0.000827	0.00295	1	10/11/2019 19:05	WG1360981
1,3-Dichloropropane	U		0.00207	0.00590	1	10/11/2019 19:05	WG1360981
cis-1,3-Dichloropropene	U		0.000801	0.00295	1	10/11/2019 19:05	WG1360981
trans-1,3-Dichloropropene	U		0.00181	0.00590	1	10/11/2019 19:05	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00165	0.00590	1	10/11/2019 19:05	WG1360981
2,2-Dichloropropane	U UJ	J0	0.000936	0.00295	1	10/11/2019 19:05	WG1360981
Di-isopropyl ether	U		0.000413	0.00118	1	10/11/2019 19:05	WG1360981
Ethylbenzene	U		0.000626	0.00295	1	10/11/2019 19:05	WG1360981
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	10/11/2019 19:05	WG1360981
2-Hexanone	U		0.0118	0.0295	1	10/11/2019 19:05	WG1360981
n-Hexane	0.00978		0.00125	0.00590	1	10/11/2019 19:05	WG1360981
Iodomethane	U		0.00714	0.0148	1	10/11/2019 19:05	WG1360981
Isopropylbenzene	U		0.00102	0.00295	1	10/11/2019 19:05	WG1360981
p-Isopropyltoluene	U		0.00275	0.00590	1	10/11/2019 19:05	WG1360981
2-Butanone (MEK)	0.0224 U	B J	0.0148	0.0295	1	10/11/2019 19:05	WG1360981
Methylene Chloride	U		0.00784	0.0295	1	10/11/2019 19:05	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	10/11/2019 19:05	WG1360981

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000348	0.00118	1	10/11/2019 19:05	WG1360981
Naphthalene	U		0.00368	0.0148	1	10/11/2019 19:05	WG1360981
n-Propylbenzene	U		0.00139	0.00590	1	10/11/2019 19:05	WG1360981
Styrene	U		0.00322	0.0148	1	10/11/2019 19:05	WG1360981
1,1,1,2-Tetrachloroethane	U		0.000590	0.00295	1	10/11/2019 19:05	WG1360981
1,1,2,2-Tetrachloroethane	U		0.000461	0.00295	1	10/11/2019 19:05	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.000797	0.00295	1	10/11/2019 19:05	WG1360981
Tetrachloroethene	U		0.000827	0.00295	1	10/11/2019 19:05	WG1360981
Toluene	0.00492	J	0.00148	0.00590	1	10/11/2019 19:05	WG1360981
1,2,3-Trichlorobenzene	U		0.000738	0.00295	1	10/11/2019 19:05	WG1360981
1,2,4-Trichlorobenzene	U		0.00569	0.0148	1	10/11/2019 19:05	WG1360981
1,1,1-Trichloroethane	U		0.000325	0.00295	1	10/11/2019 19:05	WG1360981
1,1,2-Trichloroethane	U		0.00104	0.00295	1	10/11/2019 19:05	WG1360981
Trichloroethene	U		0.000472	0.00118	1	10/11/2019 19:05	WG1360981
Trichlorofluoromethane	U		0.000590	0.00295	1	10/11/2019 19:05	WG1360981
1,2,3-Trichloropropane	U		0.00602	0.0148	1	10/11/2019 19:05	WG1360981
1,2,4-Trimethylbenzene	U		0.00137	0.00590	1	10/11/2019 19:05	WG1360981
1,2,3-Trimethylbenzene	U		0.00136	0.00590	1	10/11/2019 19:05	WG1360981
1,3,5-Trimethylbenzene	U		0.00128	0.00590	1	10/11/2019 19:05	WG1360981
Vinyl acetate	U		0.00416	0.0148	1	10/11/2019 19:05	WG1360981
Vinyl chloride	U		0.000806	0.00295	1	10/11/2019 19:05	WG1360981
Xylenes, Total	U		0.00564	0.00768	1	10/11/2019 19:05	WG1360981
(S) Toluene-d8	*106*			*75.0-131*		*10/11/2019 19:05*	WG1360981
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/11/2019 19:05*	WG1360981
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/11/2019 19:05*	WG1360981

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.2		1	10/08/2019 11:01	WG1358899

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0602	J	0.0336	0.0613	2.16	10/11/2019 19:26	WG1360981
Acrylonitrile	U		0.00465	0.0306	2.16	10/11/2019 19:26	WG1360981
Benzene	U		0.000980	0.00245	2.16	10/11/2019 19:26	WG1360981
Bromobenzene	U		0.00258	0.0306	2.16	10/11/2019 19:26	WG1360981
Bromodichloromethane	U		0.00193	0.00613	2.16	10/11/2019 19:26	WG1360981
Bromochloromethane	U		0.00277	0.0123	2.16	10/11/2019 19:26	WG1360981
Bromoform	U		0.0146	0.0613	2.16	10/11/2019 19:26	WG1360981
Bromomethane	U		0.00906	0.0306	2.16	10/11/2019 19:26	WG1360981
n-Butylbenzene	U		0.00940	0.0306	2.16	10/11/2019 19:26	WG1360981
sec-Butylbenzene	U		0.00619	0.0306	2.16	10/11/2019 19:26	WG1360981
tert-Butylbenzene	U		0.00380	0.0123	2.16	10/11/2019 19:26	WG1360981
Carbon disulfide	U		0.00995	0.0306	2.16	10/11/2019 19:26	WG1360981
Carbon tetrachloride	U		0.00264	0.0123	2.16	10/11/2019 19:26	WG1360981
Chlorobenzene	U		0.00141	0.00613	2.16	10/11/2019 19:26	WG1360981
Chlorodibromomethane	U		0.00110	0.00613	2.16	10/11/2019 19:26	WG1360981
Chloroethane	U		0.00264	0.0123	2.16	10/11/2019 19:26	WG1360981
Chloroform	U		0.00102	0.00613	2.16	10/11/2019 19:26	WG1360981
Chloromethane	U		0.00340	0.0306	2.16	10/11/2019 19:26	WG1360981
2-Chlorotoluene	U		0.00226	0.00613	2.16	10/11/2019 19:26	WG1360981
4-Chlorotoluene	U		0.00277	0.0123	2.16	10/11/2019 19:26	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.0125	0.0613	2.16	10/11/2019 19:26	WG1360981
1,2-Dibromoethane	U		0.00128	0.00613	2.16	10/11/2019 19:26	WG1360981
Dibromomethane	U		0.00245	0.0123	2.16	10/11/2019 19:26	WG1360981
1,2-Dichlorobenzene	U		0.00355	0.0123	2.16	10/11/2019 19:26	WG1360981
1,3-Dichlorobenzene	U		0.00416	0.0123	2.16	10/11/2019 19:26	WG1360981
1,4-Dichlorobenzene	U		0.00483	0.0123	2.16	10/11/2019 19:26	WG1360981
Dichlorodifluoromethane	U	UJ J0	0.00201	0.00613	2.16	10/11/2019 19:26	WG1360981
1,1-Dichloroethane	U		0.00141	0.00613	2.16	10/11/2019 19:26	WG1360981
1,2-Dichloroethane	U		0.00117	0.00613	2.16	10/11/2019 19:26	WG1360981
1,1-Dichloroethene	U		0.00123	0.00613	2.16	10/11/2019 19:26	WG1360981
cis-1,2-Dichloroethene	0.0150		0.00169	0.00613	2.16	10/11/2019 19:26	WG1360981
trans-1,2-Dichloroethene	U		0.00351	0.0123	2.16	10/11/2019 19:26	WG1360981
1,2-Dichloropropane	U		0.00311	0.0123	2.16	10/11/2019 19:26	WG1360981
1,1-Dichloropropene	U		0.00171	0.00613	2.16	10/11/2019 19:26	WG1360981
1,3-Dichloropropane	U		0.00429	0.0123	2.16	10/11/2019 19:26	WG1360981
cis-1,3-Dichloropropene	U		0.00166	0.00613	2.16	10/11/2019 19:26	WG1360981
trans-1,3-Dichloropropene	U		0.00374	0.0123	2.16	10/11/2019 19:26	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00343	0.0123	2.16	10/11/2019 19:26	WG1360981
2,2-Dichloropropane	U	UJ J0	0.00194	0.00613	2.16	10/11/2019 19:26	WG1360981
Di-isopropyl ether	U		0.000858	0.00245	2.16	10/11/2019 19:26	WG1360981
Ethylbenzene	U		0.00129	0.00613	2.16	10/11/2019 19:26	WG1360981
Hexachloro-1,3-butadiene	U		0.0311	0.0613	2.16	10/11/2019 19:26	WG1360981
2-Hexanone	U		0.0245	0.0613	2.16	10/11/2019 19:26	WG1360981
n-Hexane	0.0179		0.00260	0.0123	2.16	10/11/2019 19:26	WG1360981
Iodomethane	U		0.0149	0.0306	2.16	10/11/2019 19:26	WG1360981
Isopropylbenzene	U		0.00211	0.00613	2.16	10/11/2019 19:26	WG1360981
p-Isopropyltoluene	U		0.00571	0.0123	2.16	10/11/2019 19:26	WG1360981
2-Butanone (MEK)	0.0307	U B J	0.0306	0.0613	2.16	10/11/2019 19:26	WG1360981
Methylene Chloride	0.0183	J	0.0162	0.0613	2.16	10/11/2019 19:26	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0245	0.0613	2.16	10/11/2019 19:26	WG1360981

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000723	0.00245	2.16	10/11/2019 19:26	WG1360981
Naphthalene	U		0.00765	0.0306	2.16	10/11/2019 19:26	WG1360981
n-Propylbenzene	U		0.00289	0.0123	2.16	10/11/2019 19:26	WG1360981
Styrene	U		0.00669	0.0306	2.16	10/11/2019 19:26	WG1360981
1,1,1,2-Tetrachloroethane	U		0.00123	0.00613	2.16	10/11/2019 19:26	WG1360981
1,1,2,2-Tetrachloroethane	U		0.000955	0.00613	2.16	10/11/2019 19:26	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.00166	0.00613	2.16	10/11/2019 19:26	WG1360981
Tetrachloroethene	U		0.00171	0.00613	2.16	10/11/2019 19:26	WG1360981
Toluene	0.0546		0.00306	0.0123	2.16	10/11/2019 19:26	WG1360981
1,2,3-Trichlorobenzene	U		0.00153	0.00613	2.16	10/11/2019 19:26	WG1360981
1,2,4-Trichlorobenzene	U		0.0118	0.0306	2.16	10/11/2019 19:26	WG1360981
1,1,1-Trichloroethane	U		0.000674	0.00613	2.16	10/11/2019 19:26	WG1360981
1,1,2-Trichloroethane	U		0.00217	0.00613	2.16	10/11/2019 19:26	WG1360981
Trichloroethene	U		0.000980	0.00245	2.16	10/11/2019 19:26	WG1360981
Trichlorofluoromethane	U		0.00123	0.00613	2.16	10/11/2019 19:26	WG1360981
1,2,3-Trichloropropane	U		0.0125	0.0306	2.16	10/11/2019 19:26	WG1360981
1,2,4-Trimethylbenzene	U		0.00285	0.0123	2.16	10/11/2019 19:26	WG1360981
1,2,3-Trimethylbenzene	U		0.00281	0.0123	2.16	10/11/2019 19:26	WG1360981
1,3,5-Trimethylbenzene	U		0.00264	0.0123	2.16	10/11/2019 19:26	WG1360981
Vinyl acetate	U		0.00862	0.0306	2.16	10/11/2019 19:26	WG1360981
Vinyl chloride	U		0.00168	0.00613	2.16	10/11/2019 19:26	WG1360981
Xylenes, Total	U		0.0117	0.0159	2.16	10/11/2019 19:26	WG1360981
(S) Toluene-d8	*101*			*75.0-131*		*10/11/2019 19:26*	WG1360981
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/11/2019 19:26*	WG1360981
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*10/11/2019 19:26*	WG1360981

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.0		1	10/08/2019 11:01	WG1358899

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0362		0.0167	0.0305	1	10/11/2019 19:47	WG1360981
Acrylonitrile	U		0.00232	0.0152	1	10/11/2019 19:47	WG1360981
Benzene	U		0.000488	0.00122	1	10/11/2019 19:47	WG1360981
Bromobenzene	U		0.00128	0.0152	1	10/11/2019 19:47	WG1360981
Bromodichloromethane	U		0.000961	0.00305	1	10/11/2019 19:47	WG1360981
Bromochloromethane	U		0.00138	0.00610	1	10/11/2019 19:47	WG1360981
Bromoform	U		0.00729	0.0305	1	10/11/2019 19:47	WG1360981
Bromomethane	U		0.00451	0.0152	1	10/11/2019 19:47	WG1360981
n-Butylbenzene	U		0.00468	0.0152	1	10/11/2019 19:47	WG1360981
sec-Butylbenzene	U		0.00308	0.0152	1	10/11/2019 19:47	WG1360981
tert-Butylbenzene	U		0.00189	0.00610	1	10/11/2019 19:47	WG1360981
Carbon disulfide	U		0.00495	0.0152	1	10/11/2019 19:47	WG1360981
Carbon tetrachloride	U		0.00132	0.00610	1	10/11/2019 19:47	WG1360981
Chlorobenzene	U		0.000699	0.00305	1	10/11/2019 19:47	WG1360981
Chlorodibromomethane	U		0.000549	0.00305	1	10/11/2019 19:47	WG1360981
Chloroethane	U		0.00132	0.00610	1	10/11/2019 19:47	WG1360981
Chloroform	U		0.000506	0.00305	1	10/11/2019 19:47	WG1360981
Chloromethane	U		0.00169	0.0152	1	10/11/2019 19:47	WG1360981
2-Chlorotoluene	U		0.00112	0.00305	1	10/11/2019 19:47	WG1360981
4-Chlorotoluene	U		0.00138	0.00610	1	10/11/2019 19:47	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.00622	0.0305	1	10/11/2019 19:47	WG1360981
1,2-Dibromoethane	U		0.000640	0.00305	1	10/11/2019 19:47	WG1360981
Dibromomethane	U		0.00122	0.00610	1	10/11/2019 19:47	WG1360981
1,2-Dichlorobenzene	U		0.00177	0.00610	1	10/11/2019 19:47	WG1360981
1,3-Dichlorobenzene	U		0.00207	0.00610	1	10/11/2019 19:47	WG1360981
1,4-Dichlorobenzene	U		0.00240	0.00610	1	10/11/2019 19:47	WG1360981
Dichlorodifluoromethane	U	UJ J0	0.000997	0.00305	1	10/11/2019 19:47	WG1360981
1,1-Dichloroethane	U		0.000701	0.00305	1	10/11/2019 19:47	WG1360981
1,2-Dichloroethane	U		0.000579	0.00305	1	10/11/2019 19:47	WG1360981
1,1-Dichloroethene	U		0.000610	0.00305	1	10/11/2019 19:47	WG1360981
cis-1,2-Dichloroethene	1.93		0.000841	0.00305	1	10/11/2019 19:47	WG1360981
trans-1,2-Dichloroethene	0.00987		0.00174	0.00610	1	10/11/2019 19:47	WG1360981
1,2-Dichloropropane	U		0.00155	0.00610	1	10/11/2019 19:47	WG1360981
1,1-Dichloropropene	U		0.000853	0.00305	1	10/11/2019 19:47	WG1360981
1,3-Dichloropropane	U		0.00213	0.00610	1	10/11/2019 19:47	WG1360981
cis-1,3-Dichloropropene	U		0.000827	0.00305	1	10/11/2019 19:47	WG1360981
trans-1,3-Dichloropropene	U		0.00187	0.00610	1	10/11/2019 19:47	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00171	0.00610	1	10/11/2019 19:47	WG1360981
2,2-Dichloropropane	U	UJ J0	0.000967	0.00305	1	10/11/2019 19:47	WG1360981
Di-isopropyl ether	U		0.000427	0.00122	1	10/11/2019 19:47	WG1360981
Ethylbenzene	U		0.000646	0.00305	1	10/11/2019 19:47	WG1360981
Hexachloro-1,3-butadiene	U		0.0155	0.0305	1	10/11/2019 19:47	WG1360981
2-Hexanone	U		0.0122	0.0305	1	10/11/2019 19:47	WG1360981
n-Hexane	0.0300		0.00129	0.00610	1	10/11/2019 19:47	WG1360981
Iodomethane	U		0.00738	0.0152	1	10/11/2019 19:47	WG1360981
Isopropylbenzene	U		0.00105	0.00305	1	10/11/2019 19:47	WG1360981
p-Isopropyltoluene	U		0.00284	0.00610	1	10/11/2019 19:47	WG1360981
2-Butanone (MEK)	0.0233	U B J	0.0152	0.0305	1	10/11/2019 19:47	WG1360981
Methylene Chloride	0.0105	J	0.00809	0.0305	1	10/11/2019 19:47	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0305	1	10/11/2019 19:47	WG1360981

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000360	0.00122	1	10/11/2019 19:47	WG1360981
Naphthalene	U		0.00380	0.0152	1	10/11/2019 19:47	WG1360981
n-Propylbenzene	U		0.00144	0.00610	1	10/11/2019 19:47	WG1360981
Styrene	U		0.00333	0.0152	1	10/11/2019 19:47	WG1360981
1,1,1,2-Tetrachloroethane	U		0.000610	0.00305	1	10/11/2019 19:47	WG1360981
1,1,2,2-Tetrachloroethane	U		0.000475	0.00305	1	10/11/2019 19:47	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.000823	0.00305	1	10/11/2019 19:47	WG1360981
Tetrachloroethene	0.0928		0.000853	0.00305	1	10/11/2019 19:47	WG1360981
Toluene	0.0171		0.00152	0.00610	1	10/11/2019 19:47	WG1360981
1,2,3-Trichlorobenzene	U		0.000762	0.00305	1	10/11/2019 19:47	WG1360981
1,2,4-Trichlorobenzene	U		0.00588	0.0152	1	10/11/2019 19:47	WG1360981
1,1,1-Trichloroethane	U		0.000335	0.00305	1	10/11/2019 19:47	WG1360981
1,1,2-Trichloroethane	U		0.00108	0.00305	1	10/11/2019 19:47	WG1360981
Trichloroethene	0.0177		0.000488	0.00122	1	10/11/2019 19:47	WG1360981
Trichlorofluoromethane	U		0.000610	0.00305	1	10/11/2019 19:47	WG1360981
1,2,3-Trichloropropane	U		0.00622	0.0152	1	10/11/2019 19:47	WG1360981
1,2,4-Trimethylbenzene	U		0.00141	0.00610	1	10/11/2019 19:47	WG1360981
1,2,3-Trimethylbenzene	U		0.00140	0.00610	1	10/11/2019 19:47	WG1360981
1,3,5-Trimethylbenzene	U		0.00132	0.00610	1	10/11/2019 19:47	WG1360981
Vinyl acetate	U		0.00429	0.0152	1	10/11/2019 19:47	WG1360981
Vinyl chloride	0.0239		0.000833	0.00305	1	10/11/2019 19:47	WG1360981
Xylenes, Total	U		0.00583	0.00792	1	10/11/2019 19:47	WG1360981
(S) Toluene-d8	*105*			*75.0-131*		*10/11/2019 19:47*	WG1360981
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/11/2019 19:47*	WG1360981
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*10/11/2019 19:47*	WG1360981

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.0		1	10/08/2019 11:01	WG1358899

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0237	J	0.0172	0.0312	1.1	10/11/2019 20:07	WG1360981
Acrylonitrile	U		0.00237	0.0157	1.1	10/11/2019 20:07	WG1360981
Benzene	U		0.000500	0.00125	1.1	10/11/2019 20:07	WG1360981
Bromobenzene	U		0.00131	0.0157	1.1	10/11/2019 20:07	WG1360981
Bromodichloromethane	U		0.000985	0.00312	1.1	10/11/2019 20:07	WG1360981
Bromochloromethane	U		0.00141	0.00625	1.1	10/11/2019 20:07	WG1360981
Bromoform	U		0.00748	0.0312	1.1	10/11/2019 20:07	WG1360981
Bromomethane	U		0.00462	0.0157	1.1	10/11/2019 20:07	WG1360981
n-Butylbenzene	U		0.00480	0.0157	1.1	10/11/2019 20:07	WG1360981
sec-Butylbenzene	U		0.00316	0.0157	1.1	10/11/2019 20:07	WG1360981
tert-Butylbenzene	U		0.00194	0.00625	1.1	10/11/2019 20:07	WG1360981
Carbon disulfide	U		0.00508	0.0157	1.1	10/11/2019 20:07	WG1360981
Carbon tetrachloride	U		0.00135	0.00625	1.1	10/11/2019 20:07	WG1360981
Chlorobenzene	U		0.000716	0.00312	1.1	10/11/2019 20:07	WG1360981
Chlorodibromomethane	U		0.000562	0.00312	1.1	10/11/2019 20:07	WG1360981
Chloroethane	U		0.00135	0.00625	1.1	10/11/2019 20:07	WG1360981
Chloroform	U		0.000519	0.00312	1.1	10/11/2019 20:07	WG1360981
Chloromethane	U		0.00174	0.0157	1.1	10/11/2019 20:07	WG1360981
2-Chlorotoluene	U		0.00115	0.00312	1.1	10/11/2019 20:07	WG1360981
4-Chlorotoluene	U		0.00141	0.00625	1.1	10/11/2019 20:07	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.00637	0.0312	1.1	10/11/2019 20:07	WG1360981
1,2-Dibromoethane	U		0.000656	0.00312	1.1	10/11/2019 20:07	WG1360981
Dibromomethane	U		0.00125	0.00625	1.1	10/11/2019 20:07	WG1360981
1,2-Dichlorobenzene	U		0.00181	0.00625	1.1	10/11/2019 20:07	WG1360981
1,3-Dichlorobenzene	U		0.00212	0.00625	1.1	10/11/2019 20:07	WG1360981
1,4-Dichlorobenzene	U		0.00247	0.00625	1.1	10/11/2019 20:07	WG1360981
Dichlorodifluoromethane	U	UJ J0	0.00102	0.00312	1.1	10/11/2019 20:07	WG1360981
1,1-Dichloroethane	U		0.000719	0.00312	1.1	10/11/2019 20:07	WG1360981
1,2-Dichloroethane	U		0.000594	0.00312	1.1	10/11/2019 20:07	WG1360981
1,1-Dichloroethene	U		0.000625	0.00312	1.1	10/11/2019 20:07	WG1360981
cis-1,2-Dichloroethene	U		0.000862	0.00312	1.1	10/11/2019 20:07	WG1360981
trans-1,2-Dichloroethene	U		0.00178	0.00625	1.1	10/11/2019 20:07	WG1360981
1,2-Dichloropropane	U		0.00159	0.00625	1.1	10/11/2019 20:07	WG1360981
1,1-Dichloropropene	U		0.000875	0.00312	1.1	10/11/2019 20:07	WG1360981
1,3-Dichloropropane	U		0.00219	0.00625	1.1	10/11/2019 20:07	WG1360981
cis-1,3-Dichloropropene	U		0.000848	0.00312	1.1	10/11/2019 20:07	WG1360981
trans-1,3-Dichloropropene	U		0.00191	0.00625	1.1	10/11/2019 20:07	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00175	0.00625	1.1	10/11/2019 20:07	WG1360981
2,2-Dichloropropane	U	UJ J0	0.000991	0.00312	1.1	10/11/2019 20:07	WG1360981
Di-isopropyl ether	U		0.000437	0.00125	1.1	10/11/2019 20:07	WG1360981
Ethylbenzene	U		0.000662	0.00312	1.1	10/11/2019 20:07	WG1360981
Hexachloro-1,3-butadiene	U		0.0159	0.0312	1.1	10/11/2019 20:07	WG1360981
2-Hexanone	U		0.0125	0.0312	1.1	10/11/2019 20:07	WG1360981
n-Hexane	0.0259		0.00133	0.00625	1.1	10/11/2019 20:07	WG1360981
Iodomethane	U		0.00756	0.0157	1.1	10/11/2019 20:07	WG1360981
Isopropylbenzene	U		0.00108	0.00312	1.1	10/11/2019 20:07	WG1360981
p-Isopropyltoluene	U		0.00291	0.00625	1.1	10/11/2019 20:07	WG1360981
2-Butanone (MEK)	0.0250	U B J	0.0157	0.0312	1.1	10/11/2019 20:07	WG1360981
Methylene Chloride	0.0109	J	0.00830	0.0312	1.1	10/11/2019 20:07	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0125	0.0312	1.1	10/11/2019 20:07	WG1360981

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000369	0.00125	1.1	10/11/2019 20:07	WG1360981
Naphthalene	U		0.00390	0.0157	1.1	10/11/2019 20:07	WG1360981
n-Propylbenzene	U		0.00148	0.00625	1.1	10/11/2019 20:07	WG1360981
Styrene	U		0.00341	0.0157	1.1	10/11/2019 20:07	WG1360981
1,1,1,2-Tetrachloroethane	U		0.000625	0.00312	1.1	10/11/2019 20:07	WG1360981
1,1,2,2-Tetrachloroethane	U		0.000487	0.00312	1.1	10/11/2019 20:07	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.000844	0.00312	1.1	10/11/2019 20:07	WG1360981
Tetrachloroethene	U		0.000875	0.00312	1.1	10/11/2019 20:07	WG1360981
Toluene	0.0132		0.00157	0.00625	1.1	10/11/2019 20:07	WG1360981
1,2,3-Trichlorobenzene	U		0.000782	0.00312	1.1	10/11/2019 20:07	WG1360981
1,2,4-Trichlorobenzene	U		0.00602	0.0157	1.1	10/11/2019 20:07	WG1360981
1,1,1-Trichloroethane	U		0.000344	0.00312	1.1	10/11/2019 20:07	WG1360981
1,1,2-Trichloroethane	U		0.00110	0.00312	1.1	10/11/2019 20:07	WG1360981
Trichloroethene	U		0.000500	0.00125	1.1	10/11/2019 20:07	WG1360981
Trichlorofluoromethane	U		0.000625	0.00312	1.1	10/11/2019 20:07	WG1360981
1,2,3-Trichloropropane	U		0.00637	0.0157	1.1	10/11/2019 20:07	WG1360981
1,2,4-Trimethylbenzene	U		0.00145	0.00625	1.1	10/11/2019 20:07	WG1360981
1,2,3-Trimethylbenzene	U		0.00144	0.00625	1.1	10/11/2019 20:07	WG1360981
1,3,5-Trimethylbenzene	U		0.00135	0.00625	1.1	10/11/2019 20:07	WG1360981
Vinyl acetate	U		0.00440	0.0157	1.1	10/11/2019 20:07	WG1360981
Vinyl chloride	U		0.000853	0.00312	1.1	10/11/2019 20:07	WG1360981
Xylenes, Total	U		0.00598	0.00812	1.1	10/11/2019 20:07	WG1360981
(S) Toluene-d8	*104*			*75.0-131*		*10/11/2019 20:07*	WG1360981
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/11/2019 20:07*	WG1360981
(S) 1,2-Dichloroethane-d4	*99.0*			*70.0-130*		*10/11/2019 20:07*	WG1360981

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.5		1	10/08/2019 11:01	WG1358899

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	707		9.47	27.9	250	10/08/2019 20:44	WG1359149
(S) a,a,a-Trifluorotoluene(FID)	*94.6*			*77.0-120*		*10/08/2019 20:44*	WG1359149

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.427	J	0.306	0.558	20	10/11/2019 20:28	WG1360981
Acrylonitrile	U		0.0424	0.279	20	10/11/2019 20:28	WG1360981
Benzene	U		0.00894	0.0223	20	10/11/2019 20:28	WG1360981
Bromobenzene	U		0.0235	0.279	20	10/11/2019 20:28	WG1360981
Bromodichloromethane	U		0.0176	0.0558	20	10/11/2019 20:28	WG1360981
Bromochloromethane	U		0.0252	0.112	20	10/11/2019 20:28	WG1360981
Bromoform	U		0.134	0.558	20	10/11/2019 20:28	WG1360981
Bromomethane	U		0.0827	0.279	20	10/11/2019 20:28	WG1360981
n-Butylbenzene	0.264	J	0.0858	0.279	20	10/11/2019 20:28	WG1360981
sec-Butylbenzene	1.75		0.0565	0.279	20	10/11/2019 20:28	WG1360981
tert-Butylbenzene	0.0875	J	0.0346	0.112	20	10/11/2019 20:28	WG1360981
Carbon disulfide	U		0.0907	0.279	20	10/11/2019 20:28	WG1360981
Carbon tetrachloride	U		0.0241	0.112	20	10/11/2019 20:28	WG1360981
Chlorobenzene	U		0.0128	0.0558	20	10/11/2019 20:28	WG1360981
Chlorodibromomethane	U		0.0101	0.0558	20	10/11/2019 20:28	WG1360981
Chloroethane	U		0.0241	0.112	20	10/11/2019 20:28	WG1360981
Chloroform	U		0.00927	0.0558	20	10/11/2019 20:28	WG1360981
Chloromethane	U		0.0311	0.279	20	10/11/2019 20:28	WG1360981
2-Chlorotoluene	U		0.0206	0.0558	20	10/11/2019 20:28	WG1360981
4-Chlorotoluene	U		0.0252	0.112	20	10/11/2019 20:28	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.114	0.558	20	10/11/2019 20:28	WG1360981
1,2-Dibromoethane	U		0.0117	0.0558	20	10/11/2019 20:28	WG1360981
Dibromomethane	U		0.0223	0.112	20	10/11/2019 20:28	WG1360981
1,2-Dichlorobenzene	U		0.0324	0.112	20	10/11/2019 20:28	WG1360981
1,3-Dichlorobenzene	U		0.0380	0.112	20	10/11/2019 20:28	WG1360981
1,4-Dichlorobenzene	U		0.0440	0.112	20	10/11/2019 20:28	WG1360981
Dichlorodifluoromethane	U	UJ J0	0.0183	0.0558	20	10/11/2019 20:28	WG1360981
1,1-Dichloroethane	U		0.0128	0.0558	20	10/11/2019 20:28	WG1360981
1,2-Dichloroethane	U		0.0106	0.0558	20	10/11/2019 20:28	WG1360981
1,1-Dichloroethene	U		0.0112	0.0558	20	10/11/2019 20:28	WG1360981
cis-1,2-Dichloroethene	U		0.0154	0.0558	20	10/11/2019 20:28	WG1360981
trans-1,2-Dichloroethene	U		0.0319	0.112	20	10/11/2019 20:28	WG1360981
1,2-Dichloropropane	U		0.0284	0.112	20	10/11/2019 20:28	WG1360981
1,1-Dichloropropene	U		0.0156	0.0558	20	10/11/2019 20:28	WG1360981
1,3-Dichloropropane	U		0.0391	0.112	20	10/11/2019 20:28	WG1360981
cis-1,3-Dichloropropene	U		0.0152	0.0558	20	10/11/2019 20:28	WG1360981
trans-1,3-Dichloropropene	U		0.0342	0.112	20	10/11/2019 20:28	WG1360981
trans-1,4-Dichloro-2-butene	U		0.0313	0.112	20	10/11/2019 20:28	WG1360981
2,2-Dichloropropane	U	UJ J0	0.0178	0.0558	20	10/11/2019 20:28	WG1360981
Di-isopropyl ether	U		0.00782	0.0223	20	10/11/2019 20:28	WG1360981
Ethylbenzene	U		0.0118	0.0558	20	10/11/2019 20:28	WG1360981
Hexachloro-1,3-butadiene	U		0.284	0.558	20	10/11/2019 20:28	WG1360981
2-Hexanone	U		0.223	0.558	20	10/11/2019 20:28	WG1360981
n-Hexane	U		0.0237	0.112	20	10/11/2019 20:28	WG1360981

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Iodomethane	U		0.135	0.279	20	10/11/2019 20:28	WG1360981
Isopropylbenzene	1.35		0.0193	0.0558	20	10/11/2019 20:28	WG1360981
p-Isopropyltoluene	U		0.0520	0.112	20	10/11/2019 20:28	WG1360981
2-Butanone (MEK)	U		0.279	0.558	20	10/11/2019 20:28	WG1360981
Methylene Chloride	0.166	J	0.149	0.558	20	10/11/2019 20:28	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.223	0.558	20	10/11/2019 20:28	WG1360981
Methyl tert-butyl ether	U		0.00659	0.0223	20	10/11/2019 20:28	WG1360981
Naphthalene	U		0.0697	0.279	20	10/11/2019 20:28	WG1360981
n-Propylbenzene	1.81		0.0264	0.112	20	10/11/2019 20:28	WG1360981
Styrene	U		0.0610	0.279	20	10/11/2019 20:28	WG1360981
1,1,1,2-Tetrachloroethane	U		0.0112	0.0558	20	10/11/2019 20:28	WG1360981
1,1,2,2-Tetrachloroethane	U		0.00871	0.0558	20	10/11/2019 20:28	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.0151	0.0558	20	10/11/2019 20:28	WG1360981
Tetrachloroethene	U		0.0156	0.0558	20	10/11/2019 20:28	WG1360981
Toluene	U		0.0279	0.112	20	10/11/2019 20:28	WG1360981
1,2,3-Trichlorobenzene	U		0.0140	0.0558	20	10/11/2019 20:28	WG1360981
1,2,4-Trichlorobenzene	U		0.108	0.279	20	10/11/2019 20:28	WG1360981
1,1,1-Trichloroethane	U		0.00614	0.0558	20	10/11/2019 20:28	WG1360981
1,1,2-Trichloroethane	U		0.0198	0.0558	20	10/11/2019 20:28	WG1360981
Trichloroethene	U		0.00894	0.0223	20	10/11/2019 20:28	WG1360981
Trichlorofluoromethane	U		0.0112	0.0558	20	10/11/2019 20:28	WG1360981
1,2,3-Trichloropropane	U		0.114	0.279	20	10/11/2019 20:28	WG1360981
1,2,4-Trimethylbenzene	U		0.0259	0.112	20	10/11/2019 20:28	WG1360981
1,2,3-Trimethylbenzene	U		0.0257	0.112	20	10/11/2019 20:28	WG1360981
1,3,5-Trimethylbenzene	U		0.0241	0.112	20	10/11/2019 20:28	WG1360981
Vinyl acetate	U		0.0786	0.279	20	10/11/2019 20:28	WG1360981
Vinyl chloride	U		0.0153	0.0558	20	10/11/2019 20:28	WG1360981
Xylenes, Total	U		0.107	0.145	20	10/11/2019 20:28	WG1360981
(S) Toluene-d8	*91.6*			*75.0-131*		*10/11/2019 20:28*	WG1360981
(S) 4-Bromofluorobenzene	*121*			*67.0-138*		*10/11/2019 20:28*	WG1360981
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/11/2019 20:28*	WG1360981

Sample Narrative:

L1145065-25 WG1360981: Dilution due to non-target matrix interference.

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.3		1	10/08/2019 11:01	WG1358899

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		0.982	2.90	25	10/08/2019 15:33	WG1359149
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*77.0-120*		*10/08/2019 15:33*	WG1359149

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0159	0.0290	1	10/11/2019 20:49	WG1360981
Acrylonitrile	0.00396	J	0.00220	0.0145	1	10/11/2019 20:49	WG1360981
Benzene	U		0.000463	0.00116	1	10/11/2019 20:49	WG1360981
Bromobenzene	U		0.00122	0.0145	1	10/11/2019 20:49	WG1360981
Bromodichloromethane	U		0.000913	0.00290	1	10/11/2019 20:49	WG1360981
Bromochloromethane	U		0.00131	0.00579	1	10/11/2019 20:49	WG1360981
Bromoform	U		0.00693	0.0290	1	10/11/2019 20:49	WG1360981
Bromomethane	U		0.00429	0.0145	1	10/11/2019 20:49	WG1360981
n-Butylbenzene	U		0.00445	0.0145	1	10/11/2019 20:49	WG1360981
sec-Butylbenzene	U		0.00293	0.0145	1	10/11/2019 20:49	WG1360981
tert-Butylbenzene	U		0.00180	0.00579	1	10/11/2019 20:49	WG1360981
Carbon disulfide	U		0.00470	0.0145	1	10/11/2019 20:49	WG1360981
Carbon tetrachloride	U		0.00125	0.00579	1	10/11/2019 20:49	WG1360981
Chlorobenzene	U		0.000664	0.00290	1	10/11/2019 20:49	WG1360981
Chlorodibromomethane	U		0.000521	0.00290	1	10/11/2019 20:49	WG1360981
Chloroethane	U		0.00125	0.00579	1	10/11/2019 20:49	WG1360981
Chloroform	U		0.000481	0.00290	1	10/11/2019 20:49	WG1360981
Chloromethane	U		0.00161	0.0145	1	10/11/2019 20:49	WG1360981
2-Chlorotoluene	U		0.00107	0.00290	1	10/11/2019 20:49	WG1360981
4-Chlorotoluene	U		0.00131	0.00579	1	10/11/2019 20:49	WG1360981
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0290	1	10/11/2019 20:49	WG1360981
1,2-Dibromoethane	U		0.000608	0.00290	1	10/11/2019 20:49	WG1360981
Dibromomethane	U		0.00116	0.00579	1	10/11/2019 20:49	WG1360981
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/11/2019 20:49	WG1360981
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/11/2019 20:49	WG1360981
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/11/2019 20:49	WG1360981
Dichlorodifluoromethane	U	UJ J0	0.000947	0.00290	1	10/11/2019 20:49	WG1360981
1,1-Dichloroethane	U		0.000666	0.00290	1	10/11/2019 20:49	WG1360981
1,2-Dichloroethane	U		0.000550	0.00290	1	10/11/2019 20:49	WG1360981
1,1-Dichloroethene	U		0.000579	0.00290	1	10/11/2019 20:49	WG1360981
cis-1,2-Dichloroethene	U		0.000799	0.00290	1	10/11/2019 20:49	WG1360981
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	10/11/2019 20:49	WG1360981
1,2-Dichloropropane	U		0.00147	0.00579	1	10/11/2019 20:49	WG1360981
1,1-Dichloropropene	U		0.000811	0.00290	1	10/11/2019 20:49	WG1360981
1,3-Dichloropropane	U		0.00203	0.00579	1	10/11/2019 20:49	WG1360981
cis-1,3-Dichloropropene	U		0.000785	0.00290	1	10/11/2019 20:49	WG1360981
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	10/11/2019 20:49	WG1360981
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/11/2019 20:49	WG1360981
2,2-Dichloropropane	U	UJ J0	0.000918	0.00290	1	10/11/2019 20:49	WG1360981
Di-isopropyl ether	U		0.000405	0.00116	1	10/11/2019 20:49	WG1360981
Ethylbenzene	U		0.000614	0.00290	1	10/11/2019 20:49	WG1360981
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/11/2019 20:49	WG1360981
2-Hexanone	U		0.0116	0.0290	1	10/11/2019 20:49	WG1360981
n-Hexane	0.0255		0.00123	0.00579	1	10/11/2019 20:49	WG1360981

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Iodomethane	U		0.00701	0.0145	1	10/11/2019 20:49	WG1360981
Isopropylbenzene	U		0.000999	0.00290	1	10/11/2019 20:49	WG1360981
p-Isopropyltoluene	U		0.00270	0.00579	1	10/11/2019 20:49	WG1360981
2-Butanone (MEK)	0.0186 U	B J	0.0145	0.0290	1	10/11/2019 20:49	WG1360981
Methylene Chloride	0.00804	J	0.00769	0.0290	1	10/11/2019 20:49	WG1360981
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/11/2019 20:49	WG1360981
Methyl tert-butyl ether	U		0.000342	0.00116	1	10/11/2019 20:49	WG1360981
Naphthalene	U		0.00361	0.0145	1	10/11/2019 20:49	WG1360981
n-Propylbenzene	U		0.00137	0.00579	1	10/11/2019 20:49	WG1360981
Styrene	U		0.00316	0.0145	1	10/11/2019 20:49	WG1360981
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	10/11/2019 20:49	WG1360981
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	10/11/2019 20:49	WG1360981
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	10/11/2019 20:49	WG1360981
Tetrachloroethene	U		0.000811	0.00290	1	10/11/2019 20:49	WG1360981
Toluene	0.0110		0.00145	0.00579	1	10/11/2019 20:49	WG1360981
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	10/11/2019 20:49	WG1360981
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	10/11/2019 20:49	WG1360981
1,1,1-Trichloroethane	U		0.000318	0.00290	1	10/11/2019 20:49	WG1360981
1,1,2-Trichloroethane	U		0.00102	0.00290	1	10/11/2019 20:49	WG1360981
Trichloroethene	U		0.000463	0.00116	1	10/11/2019 20:49	WG1360981
Trichlorofluoromethane	U		0.000579	0.00290	1	10/11/2019 20:49	WG1360981
1,2,3-Trichloropropane	U		0.00591	0.0145	1	10/11/2019 20:49	WG1360981
1,2,4-Trimethylbenzene	U		0.00134	0.00579	1	10/11/2019 20:49	WG1360981
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	10/11/2019 20:49	WG1360981
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	10/11/2019 20:49	WG1360981
Vinyl acetate	U		0.00408	0.0145	1	10/11/2019 20:49	WG1360981
Vinyl chloride	U		0.000791	0.00290	1	10/11/2019 20:49	WG1360981
Xylenes, Total	U		0.00554	0.00753	1	10/11/2019 20:49	WG1360981
(S) Toluene-d8	*103*			*75.0-131*		*10/11/2019 20:49*	WG1360981
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/11/2019 20:49*	WG1360981
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*10/11/2019 20:49*	WG1360981

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.4		1	10/10/2019 14:55	WG1360397

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0289	J	0.0160	0.0293	1	10/12/2019 07:50	WG1361768
Acrylonitrile	U		0.00222	0.0146	1	10/12/2019 07:50	WG1361768
Benzene	U		0.000468	0.00117	1	10/12/2019 07:50	WG1361768
Bromobenzene	U		0.00123	0.0146	1	10/12/2019 07:50	WG1361768
Bromodichloromethane	U		0.000923	0.00293	1	10/12/2019 07:50	WG1361768
Bromochloromethane	U		0.00132	0.00585	1	10/12/2019 07:50	WG1361768
Bromoform	U		0.00700	0.0293	1	10/12/2019 07:50	WG1361768
Bromomethane	U		0.00433	0.0146	1	10/12/2019 07:50	WG1361768
n-Butylbenzene	U		0.00450	0.0146	1	10/12/2019 07:50	WG1361768
sec-Butylbenzene	U		0.00296	0.0146	1	10/12/2019 07:50	WG1361768
tert-Butylbenzene	U		0.00182	0.00585	1	10/12/2019 07:50	WG1361768
Carbon disulfide	U		0.00475	0.0146	1	10/12/2019 07:50	WG1361768
Carbon tetrachloride	U		0.00126	0.00585	1	10/12/2019 07:50	WG1361768
Chlorobenzene	U		0.000671	0.00293	1	10/12/2019 07:50	WG1361768
Chlorodibromomethane	U		0.000527	0.00293	1	10/12/2019 07:50	WG1361768
Chloroethane	U		0.00126	0.00585	1	10/12/2019 07:50	WG1361768
Chloroform	0.000913	J	0.000486	0.00293	1	10/12/2019 07:50	WG1361768
Chloromethane	U		0.00163	0.0146	1	10/12/2019 07:50	WG1361768
2-Chlorotoluene	U		0.00108	0.00293	1	10/12/2019 07:50	WG1361768
4-Chlorotoluene	U		0.00132	0.00585	1	10/12/2019 07:50	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00597	0.0293	1	10/12/2019 07:50	WG1361768
1,2-Dibromoethane	U		0.000615	0.00293	1	10/12/2019 07:50	WG1361768
Dibromomethane	U		0.00117	0.00585	1	10/12/2019 07:50	WG1361768
1,2-Dichlorobenzene	U		0.00170	0.00585	1	10/12/2019 07:50	WG1361768
1,3-Dichlorobenzene	U		0.00199	0.00585	1	10/12/2019 07:50	WG1361768
1,4-Dichlorobenzene	U		0.00231	0.00585	1	10/12/2019 07:50	WG1361768
Dichlorodifluoromethane	U		0.000958	0.00293	1	10/12/2019 07:50	WG1361768
1,1-Dichloroethane	U		0.000673	0.00293	1	10/12/2019 07:50	WG1361768
1,2-Dichloroethane	U		0.000556	0.00293	1	10/12/2019 07:50	WG1361768
1,1-Dichloroethene	U		0.000585	0.00293	1	10/12/2019 07:50	WG1361768
cis-1,2-Dichloroethene	U		0.000808	0.00293	1	10/12/2019 07:50	WG1361768
trans-1,2-Dichloroethene	U		0.00167	0.00585	1	10/12/2019 07:50	WG1361768
1,2-Dichloropropane	U		0.00149	0.00585	1	10/12/2019 07:50	WG1361768
1,1-Dichloropropene	U		0.000820	0.00293	1	10/12/2019 07:50	WG1361768
1,3-Dichloropropane	U		0.00205	0.00585	1	10/12/2019 07:50	WG1361768
cis-1,3-Dichloropropene	U		0.000794	0.00293	1	10/12/2019 07:50	WG1361768
trans-1,3-Dichloropropene	U		0.00179	0.00585	1	10/12/2019 07:50	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00164	0.00585	1	10/12/2019 07:50	WG1361768
2,2-Dichloropropane	U		0.000929	0.00293	1	10/12/2019 07:50	WG1361768
Di-isopropyl ether	U		0.000410	0.00117	1	10/12/2019 07:50	WG1361768
Ethylbenzene	0.00110	J	0.000621	0.00293	1	10/12/2019 07:50	WG1361768
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1	10/12/2019 07:50	WG1361768
2-Hexanone	U		0.0117	0.0293	1	10/12/2019 07:50	WG1361768
n-Hexane	0.00507 J	J J0	0.00124	0.00585	1	10/12/2019 07:50	WG1361768
Iodomethane	U		0.00708	0.0146	1	10/12/2019 07:50	WG1361768
Isopropylbenzene	U		0.00101	0.00293	1	10/12/2019 07:50	WG1361768
p-Isopropyltoluene	U		0.00273	0.00585	1	10/12/2019 07:50	WG1361768
2-Butanone (MEK)	U		0.0146	0.0293	1	10/12/2019 07:50	WG1361768
Methylene Chloride	U		0.00778	0.0293	1	10/12/2019 07:50	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1	10/12/2019 07:50	WG1361768

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	10/12/2019 07:50	WG1361768
Naphthalene	U		0.00365	0.0146	1	10/12/2019 07:50	WG1361768
n-Propylbenzene	U		0.00138	0.00585	1	10/12/2019 07:50	WG1361768
Styrene	U		0.00320	0.0146	1	10/12/2019 07:50	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000585	0.00293	1	10/12/2019 07:50	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000457	0.00293	1	10/12/2019 07:50	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000790	0.00293	1	10/12/2019 07:50	WG1361768
Tetrachloroethene	0.0461		0.000820	0.00293	1	10/12/2019 07:50	WG1361768
Toluene	0.00938		0.00146	0.00585	1	10/12/2019 07:50	WG1361768
1,2,3-Trichlorobenzene	U		0.000732	0.00293	1	10/12/2019 07:50	WG1361768
1,2,4-Trichlorobenzene	U		0.00564	0.0146	1	10/12/2019 07:50	WG1361768
1,1,1-Trichloroethane	U		0.000322	0.00293	1	10/12/2019 07:50	WG1361768
1,1,2-Trichloroethane	U		0.00103	0.00293	1	10/12/2019 07:50	WG1361768
Trichloroethene	U		0.000468	0.00117	1	10/12/2019 07:50	WG1361768
Trichlorofluoromethane	U		0.000585	0.00293	1	10/12/2019 07:50	WG1361768
1,2,3-Trichloropropane	U		0.00597	0.0146	1	10/12/2019 07:50	WG1361768
1,2,4-Trimethylbenzene	0.00427	J	0.00136	0.00585	1	10/12/2019 07:50	WG1361768
1,2,3-Trimethylbenzene	0.00296	J	0.00135	0.00585	1	10/12/2019 07:50	WG1361768
1,3,5-Trimethylbenzene	U		0.00126	0.00585	1	10/12/2019 07:50	WG1361768
Vinyl acetate	U UJ	J0	0.00412	0.0146	1	10/12/2019 07:50	WG1361768
Vinyl chloride	U		0.000800	0.00293	1	10/12/2019 07:50	WG1361768
Xylenes, Total	0.00584	J	0.00560	0.00761	1	10/12/2019 07:50	WG1361768
(S) Toluene-d8	*112*			*75.0-131*		*10/12/2019 07:50*	WG1361768
(S) 4-Bromofluorobenzene	*94.8*			*67.0-138*		*10/12/2019 07:50*	WG1361768
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*10/12/2019 07:50*	WG1361768

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.4		1	10/10/2019 14:55	WG1360397

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0170	0.0311	1	10/12/2019 08:10	WG1361768
Acrylonitrile	U		0.00236	0.0156	1	10/12/2019 08:10	WG1361768
Benzene	U		0.000498	0.00124	1	10/12/2019 08:10	WG1361768
Bromobenzene	U		0.00131	0.0156	1	10/12/2019 08:10	WG1361768
Bromodichloromethane	U		0.000980	0.00311	1	10/12/2019 08:10	WG1361768
Bromochloromethane	U		0.00141	0.00622	1	10/12/2019 08:10	WG1361768
Bromoform	U		0.00744	0.0311	1	10/12/2019 08:10	WG1361768
Bromomethane	U		0.00460	0.0156	1	10/12/2019 08:10	WG1361768
n-Butylbenzene	U		0.00478	0.0156	1	10/12/2019 08:10	WG1361768
sec-Butylbenzene	U		0.00315	0.0156	1	10/12/2019 08:10	WG1361768
tert-Butylbenzene	U		0.00193	0.00622	1	10/12/2019 08:10	WG1361768
Carbon disulfide	U		0.00505	0.0156	1	10/12/2019 08:10	WG1361768
Carbon tetrachloride	U		0.00134	0.00622	1	10/12/2019 08:10	WG1361768
Chlorobenzene	U		0.000713	0.00311	1	10/12/2019 08:10	WG1361768
Chlorodibromomethane	U		0.000560	0.00311	1	10/12/2019 08:10	WG1361768
Chloroethane	U		0.00134	0.00622	1	10/12/2019 08:10	WG1361768
Chloroform	U		0.000516	0.00311	1	10/12/2019 08:10	WG1361768
Chloromethane	U		0.00173	0.0156	1	10/12/2019 08:10	WG1361768
2-Chlorotoluene	U		0.00114	0.00311	1	10/12/2019 08:10	WG1361768
4-Chlorotoluene	U		0.00141	0.00622	1	10/12/2019 08:10	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00635	0.0311	1	10/12/2019 08:10	WG1361768
1,2-Dibromoethane	U		0.000653	0.00311	1	10/12/2019 08:10	WG1361768
Dibromomethane	U		0.00124	0.00622	1	10/12/2019 08:10	WG1361768
1,2-Dichlorobenzene	U		0.00180	0.00622	1	10/12/2019 08:10	WG1361768
1,3-Dichlorobenzene	U		0.00212	0.00622	1	10/12/2019 08:10	WG1361768
1,4-Dichlorobenzene	U		0.00245	0.00622	1	10/12/2019 08:10	WG1361768
Dichlorodifluoromethane	U		0.00102	0.00311	1	10/12/2019 08:10	WG1361768
1,1-Dichloroethane	U		0.000715	0.00311	1	10/12/2019 08:10	WG1361768
1,2-Dichloroethane	U		0.000591	0.00311	1	10/12/2019 08:10	WG1361768
1,1-Dichloroethene	U		0.000622	0.00311	1	10/12/2019 08:10	WG1361768
cis-1,2-Dichloroethene	U		0.000859	0.00311	1	10/12/2019 08:10	WG1361768
trans-1,2-Dichloroethene	U		0.00178	0.00622	1	10/12/2019 08:10	WG1361768
1,2-Dichloropropane	U		0.00158	0.00622	1	10/12/2019 08:10	WG1361768
1,1-Dichloropropene	U		0.000871	0.00311	1	10/12/2019 08:10	WG1361768
1,3-Dichloropropane	U		0.00218	0.00622	1	10/12/2019 08:10	WG1361768
cis-1,3-Dichloropropene	U		0.000844	0.00311	1	10/12/2019 08:10	WG1361768
trans-1,3-Dichloropropene	U		0.00190	0.00622	1	10/12/2019 08:10	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00174	0.00622	1	10/12/2019 08:10	WG1361768
2,2-Dichloropropane	U		0.000987	0.00311	1	10/12/2019 08:10	WG1361768
Di-isopropyl ether	U		0.000435	0.00124	1	10/12/2019 08:10	WG1361768
Ethylbenzene	U		0.000659	0.00311	1	10/12/2019 08:10	WG1361768
Hexachloro-1,3-butadiene	U		0.0158	0.0311	1	10/12/2019 08:10	WG1361768
2-Hexanone	U		0.0124	0.0311	1	10/12/2019 08:10	WG1361768
n-Hexane	U UJ	J0	0.00132	0.00622	1	10/12/2019 08:10	WG1361768
Iodomethane	U		0.00753	0.0156	1	10/12/2019 08:10	WG1361768
Isopropylbenzene	U		0.00107	0.00311	1	10/12/2019 08:10	WG1361768
p-Isopropyltoluene	U		0.00290	0.00622	1	10/12/2019 08:10	WG1361768
2-Butanone (MEK)	U		0.0156	0.0311	1	10/12/2019 08:10	WG1361768
Methylene Chloride	U		0.00826	0.0311	1	10/12/2019 08:10	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0311	1	10/12/2019 08:10	WG1361768

JC 11/1/19

MW-302-10

Collected date/time: 10/01/19 10:10

SAMPLE RESULTS - 02

L1146028

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000367	0.00124	1	10/12/2019 08:10	WG1361768
Naphthalene	U		0.00388	0.0156	1	10/12/2019 08:10	WG1361768
n-Propylbenzene	U		0.00147	0.00622	1	10/12/2019 08:10	WG1361768
Styrene	U		0.00340	0.0156	1	10/12/2019 08:10	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000622	0.00311	1	10/12/2019 08:10	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000485	0.00311	1	10/12/2019 08:10	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000840	0.00311	1	10/12/2019 08:10	WG1361768
Tetrachloroethene	U		0.000871	0.00311	1	10/12/2019 08:10	WG1361768
Toluene	U		0.00156	0.00622	1	10/12/2019 08:10	WG1361768
1,2,3-Trichlorobenzene	U		0.000778	0.00311	1	10/12/2019 08:10	WG1361768
1,2,4-Trichlorobenzene	U		0.00600	0.0156	1	10/12/2019 08:10	WG1361768
1,1,1-Trichloroethane	U		0.000342	0.00311	1	10/12/2019 08:10	WG1361768
1,1,2-Trichloroethane	U		0.00110	0.00311	1	10/12/2019 08:10	WG1361768
Trichloroethene	U		0.000498	0.00124	1	10/12/2019 08:10	WG1361768
Trichlorofluoromethane	U		0.000622	0.00311	1	10/12/2019 08:10	WG1361768
1,2,3-Trichloropropane	U		0.00635	0.0156	1	10/12/2019 08:10	WG1361768
1,2,4-Trimethylbenzene	U		0.00144	0.00622	1	10/12/2019 08:10	WG1361768
1,2,3-Trimethylbenzene	U		0.00143	0.00622	1	10/12/2019 08:10	WG1361768
1,3,5-Trimethylbenzene	U		0.00134	0.00622	1	10/12/2019 08:10	WG1361768
Vinyl acetate	U UJ	J0	0.00438	0.0156	1	10/12/2019 08:10	WG1361768
Vinyl chloride	U		0.000850	0.00311	1	10/12/2019 08:10	WG1361768
Xylenes, Total	U		0.00595	0.00809	1	10/12/2019 08:10	WG1361768
(S) Toluene-d8	*110*			*75.0-131*		*10/12/2019 08:10*	WG1361768
(S) 4-Bromofluorobenzene	*95.3*			*67.0-138*		*10/12/2019 08:10*	WG1361768
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/12/2019 08:10*	WG1361768

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.1		1	10/10/2019 14:55	WG1360397

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0476		0.0187	0.0341	1.16	10/12/2019 08:33	WG1361768
Acrylonitrile	U		0.00259	0.0170	1.16	10/12/2019 08:33	WG1361768
Benzene	U		0.000545	0.00136	1.16	10/12/2019 08:33	WG1361768
Bromobenzene	U		0.00143	0.0170	1.16	10/12/2019 08:33	WG1361768
Bromodichloromethane	U		0.00107	0.00341	1.16	10/12/2019 08:33	WG1361768
Bromochloromethane	U		0.00154	0.00682	1.16	10/12/2019 08:33	WG1361768
Bromoform	U		0.00816	0.0341	1.16	10/12/2019 08:33	WG1361768
Bromomethane	U		0.00504	0.0170	1.16	10/12/2019 08:33	WG1361768
n-Butylbenzene	U		0.00523	0.0170	1.16	10/12/2019 08:33	WG1361768
sec-Butylbenzene	U		0.00344	0.0170	1.16	10/12/2019 08:33	WG1361768
tert-Butylbenzene	U		0.00212	0.00682	1.16	10/12/2019 08:33	WG1361768
Carbon disulfide	U		0.00554	0.0170	1.16	10/12/2019 08:33	WG1361768
Carbon tetrachloride	U		0.00147	0.00682	1.16	10/12/2019 08:33	WG1361768
Chlorobenzene	U		0.000782	0.00341	1.16	10/12/2019 08:33	WG1361768
Chlorodibromomethane	U		0.000614	0.00341	1.16	10/12/2019 08:33	WG1361768
Chloroethane	U		0.00147	0.00682	1.16	10/12/2019 08:33	WG1361768
Chloroform	U		0.000565	0.00341	1.16	10/12/2019 08:33	WG1361768
Chloromethane	U		0.00189	0.0170	1.16	10/12/2019 08:33	WG1361768
2-Chlorotoluene	U		0.00126	0.00341	1.16	10/12/2019 08:33	WG1361768
4-Chlorotoluene	U		0.00154	0.00682	1.16	10/12/2019 08:33	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00696	0.0341	1.16	10/12/2019 08:33	WG1361768
1,2-Dibromoethane	U		0.000716	0.00341	1.16	10/12/2019 08:33	WG1361768
Dibromomethane	U		0.00136	0.00682	1.16	10/12/2019 08:33	WG1361768
1,2-Dichlorobenzene	U		0.00198	0.00682	1.16	10/12/2019 08:33	WG1361768
1,3-Dichlorobenzene	U		0.00232	0.00682	1.16	10/12/2019 08:33	WG1361768
1,4-Dichlorobenzene	U		0.00269	0.00682	1.16	10/12/2019 08:33	WG1361768
Dichlorodifluoromethane	U		0.00112	0.00341	1.16	10/12/2019 08:33	WG1361768
1,1-Dichloroethane	U		0.000784	0.00341	1.16	10/12/2019 08:33	WG1361768
1,2-Dichloroethane	U		0.000648	0.00341	1.16	10/12/2019 08:33	WG1361768
1,1-Dichloroethene	U		0.000682	0.00341	1.16	10/12/2019 08:33	WG1361768
cis-1,2-Dichloroethene	U		0.000940	0.00341	1.16	10/12/2019 08:33	WG1361768
trans-1,2-Dichloroethene	U		0.00195	0.00682	1.16	10/12/2019 08:33	WG1361768
1,2-Dichloropropane	U		0.00173	0.00682	1.16	10/12/2019 08:33	WG1361768
1,1-Dichloropropene	U		0.000955	0.00341	1.16	10/12/2019 08:33	WG1361768
1,3-Dichloropropane	U		0.00239	0.00682	1.16	10/12/2019 08:33	WG1361768
cis-1,3-Dichloropropene	U		0.000924	0.00341	1.16	10/12/2019 08:33	WG1361768
trans-1,3-Dichloropropene	U		0.00208	0.00682	1.16	10/12/2019 08:33	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00190	0.00682	1.16	10/12/2019 08:33	WG1361768
2,2-Dichloropropane	U		0.00108	0.00341	1.16	10/12/2019 08:33	WG1361768
Di-isopropyl ether	U		0.000477	0.00136	1.16	10/12/2019 08:33	WG1361768
Ethylbenzene	U		0.000723	0.00341	1.16	10/12/2019 08:33	WG1361768
Hexachloro-1,3-butadiene	U		0.0173	0.0341	1.16	10/12/2019 08:33	WG1361768
2-Hexanone	U		0.0136	0.0341	1.16	10/12/2019 08:33	WG1361768
n-Hexane	U UJ	J0	0.00145	0.00682	1.16	10/12/2019 08:33	WG1361768
Iodomethane	U		0.00825	0.0170	1.16	10/12/2019 08:33	WG1361768
Isopropylbenzene	U		0.00118	0.00341	1.16	10/12/2019 08:33	WG1361768
p-Isopropyltoluene	U		0.00317	0.00682	1.16	10/12/2019 08:33	WG1361768
2-Butanone (MEK)	U		0.0170	0.0341	1.16	10/12/2019 08:33	WG1361768
Methylene Chloride	U		0.00905	0.0341	1.16	10/12/2019 08:33	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0136	0.0341	1.16	10/12/2019 08:33	WG1361768

JC 11/1/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000402	0.00136	1.16	10/12/2019 08:33	WG1361768
Naphthalene	U		0.00426	0.0170	1.16	10/12/2019 08:33	WG1361768
n-Propylbenzene	U		0.00161	0.00682	1.16	10/12/2019 08:33	WG1361768
Styrene	U		0.00373	0.0170	1.16	10/12/2019 08:33	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000682	0.00341	1.16	10/12/2019 08:33	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000531	0.00341	1.16	10/12/2019 08:33	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000921	0.00341	1.16	10/12/2019 08:33	WG1361768
Tetrachloroethene	0.00215	J	0.000955	0.00341	1.16	10/12/2019 08:33	WG1361768
Toluene	0.0142		0.00170	0.00682	1.16	10/12/2019 08:33	WG1361768
1,2,3-Trichlorobenzene	U		0.000852	0.00341	1.16	10/12/2019 08:33	WG1361768
1,2,4-Trichlorobenzene	U		0.00657	0.0170	1.16	10/12/2019 08:33	WG1361768
1,1,1-Trichloroethane	U		0.000375	0.00341	1.16	10/12/2019 08:33	WG1361768
1,1,2-Trichloroethane	U		0.00120	0.00341	1.16	10/12/2019 08:33	WG1361768
Trichloroethene	U		0.000545	0.00136	1.16	10/12/2019 08:33	WG1361768
Trichlorofluoromethane	U		0.000682	0.00341	1.16	10/12/2019 08:33	WG1361768
1,2,3-Trichloropropane	U		0.00696	0.0170	1.16	10/12/2019 08:33	WG1361768
1,2,4-Trimethylbenzene	U		0.00159	0.00682	1.16	10/12/2019 08:33	WG1361768
1,2,3-Trimethylbenzene	U		0.00156	0.00682	1.16	10/12/2019 08:33	WG1361768
1,3,5-Trimethylbenzene	U		0.00147	0.00682	1.16	10/12/2019 08:33	WG1361768
Vinyl acetate	U UJ	J0	0.00480	0.0170	1.16	10/12/2019 08:33	WG1361768
Vinyl chloride	U		0.000931	0.00341	1.16	10/12/2019 08:33	WG1361768
Xylenes, Total	U		0.00651	0.00886	1.16	10/12/2019 08:33	WG1361768
(S) Toluene-d8	*107*			*75.0-131*		*10/12/2019 08:33*	WG1361768
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*10/12/2019 08:33*	WG1361768
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*10/12/2019 08:33*	WG1361768

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 11/1/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.8		1	10/10/2019 14:55	WG1360397

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0267	J	0.0163	0.0298	1	10/12/2019 08:53	WG1361768
Acrylonitrile	U		0.00227	0.0149	1	10/12/2019 08:53	WG1361768
Benzene	U		0.000477	0.00119	1	10/12/2019 08:53	WG1361768
Bromobenzene	U		0.00125	0.0149	1	10/12/2019 08:53	WG1361768
Bromodichloromethane	U		0.000940	0.00298	1	10/12/2019 08:53	WG1361768
Bromochloromethane	U		0.00135	0.00597	1	10/12/2019 08:53	WG1361768
Bromoform	U		0.00714	0.0298	1	10/12/2019 08:53	WG1361768
Bromomethane	U		0.00442	0.0149	1	10/12/2019 08:53	WG1361768
n-Butylbenzene	U		0.00458	0.0149	1	10/12/2019 08:53	WG1361768
sec-Butylbenzene	U		0.00302	0.0149	1	10/12/2019 08:53	WG1361768
tert-Butylbenzene	U		0.00185	0.00597	1	10/12/2019 08:53	WG1361768
Carbon disulfide	U		0.00485	0.0149	1	10/12/2019 08:53	WG1361768
Carbon tetrachloride	U		0.00129	0.00597	1	10/12/2019 08:53	WG1361768
Chlorobenzene	U		0.000684	0.00298	1	10/12/2019 08:53	WG1361768
Chlorodibromomethane	U		0.000537	0.00298	1	10/12/2019 08:53	WG1361768
Chloroethane	U		0.00129	0.00597	1	10/12/2019 08:53	WG1361768
Chloroform	U		0.000495	0.00298	1	10/12/2019 08:53	WG1361768
Chloromethane	U		0.00166	0.0149	1	10/12/2019 08:53	WG1361768
2-Chlorotoluene	U		0.00110	0.00298	1	10/12/2019 08:53	WG1361768
4-Chlorotoluene	U		0.00135	0.00597	1	10/12/2019 08:53	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00609	0.0298	1	10/12/2019 08:53	WG1361768
1,2-Dibromoethane	U		0.000627	0.00298	1	10/12/2019 08:53	WG1361768
Dibromomethane	U		0.00119	0.00597	1	10/12/2019 08:53	WG1361768
1,2-Dichlorobenzene	U		0.00173	0.00597	1	10/12/2019 08:53	WG1361768
1,3-Dichlorobenzene	U		0.00203	0.00597	1	10/12/2019 08:53	WG1361768
1,4-Dichlorobenzene	U		0.00235	0.00597	1	10/12/2019 08:53	WG1361768
Dichlorodifluoromethane	U		0.000976	0.00298	1	10/12/2019 08:53	WG1361768
1,1-Dichloroethane	U		0.000686	0.00298	1	10/12/2019 08:53	WG1361768
1,2-Dichloroethane	U		0.000567	0.00298	1	10/12/2019 08:53	WG1361768
1,1-Dichloroethene	U		0.000597	0.00298	1	10/12/2019 08:53	WG1361768
cis-1,2-Dichloroethene	U		0.000823	0.00298	1	10/12/2019 08:53	WG1361768
trans-1,2-Dichloroethene	U		0.00171	0.00597	1	10/12/2019 08:53	WG1361768
1,2-Dichloropropane	U		0.00152	0.00597	1	10/12/2019 08:53	WG1361768
1,1-Dichloropropene	U		0.000835	0.00298	1	10/12/2019 08:53	WG1361768
1,3-Dichloropropane	U		0.00209	0.00597	1	10/12/2019 08:53	WG1361768
cis-1,3-Dichloropropene	U		0.000809	0.00298	1	10/12/2019 08:53	WG1361768
trans-1,3-Dichloropropene	U		0.00183	0.00597	1	10/12/2019 08:53	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00167	0.00597	1	10/12/2019 08:53	WG1361768
2,2-Dichloropropane	U		0.000946	0.00298	1	10/12/2019 08:53	WG1361768
Di-isopropyl ether	U		0.000418	0.00119	1	10/12/2019 08:53	WG1361768
Ethylbenzene	U		0.000632	0.00298	1	10/12/2019 08:53	WG1361768
Hexachloro-1,3-butadiene	U		0.0152	0.0298	1	10/12/2019 08:53	WG1361768 JC 11/1/19
2-Hexanone	U		0.0119	0.0298	1	10/12/2019 08:53	WG1361768
n-Hexane	U UJ	J0	0.00126	0.00597	1	10/12/2019 08:53	WG1361768
Iodomethane	U		0.00722	0.0149	1	10/12/2019 08:53	WG1361768
Isopropylbenzene	U		0.00103	0.00298	1	10/12/2019 08:53	WG1361768
p-Isopropyltoluene	U		0.00278	0.00597	1	10/12/2019 08:53	WG1361768
2-Butanone (MEK)	U		0.0149	0.0298	1	10/12/2019 08:53	WG1361768
Methylene Chloride	U		0.00792	0.0298	1	10/12/2019 08:53	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	10/12/2019 08:53	WG1361768

MW-302-20

Collected date/time: 10/01/19 10:20

SAMPLE RESULTS - 04

L1146028

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	10/12/2019 08:53	WG1361768
Naphthalene	U		0.00372	0.0149	1	10/12/2019 08:53	WG1361768
n-Propylbenzene	U		0.00141	0.00597	1	10/12/2019 08:53	WG1361768
Styrene	U		0.00326	0.0149	1	10/12/2019 08:53	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000597	0.00298	1	10/12/2019 08:53	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000465	0.00298	1	10/12/2019 08:53	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000806	0.00298	1	10/12/2019 08:53	WG1361768
Tetrachloroethene	0.00541		0.000835	0.00298	1	10/12/2019 08:53	WG1361768
Toluene	0.00524	J	0.00149	0.00597	1	10/12/2019 08:53	WG1361768
1,2,3-Trichlorobenzene	U		0.000746	0.00298	1	10/12/2019 08:53	WG1361768
1,2,4-Trichlorobenzene	U		0.00575	0.0149	1	10/12/2019 08:53	WG1361768
1,1,1-Trichloroethane	U		0.000328	0.00298	1	10/12/2019 08:53	WG1361768
1,1,2-Trichloroethane	U		0.00105	0.00298	1	10/12/2019 08:53	WG1361768
Trichloroethene	U		0.000477	0.00119	1	10/12/2019 08:53	WG1361768
Trichlorofluoromethane	U		0.000597	0.00298	1	10/12/2019 08:53	WG1361768
1,2,3-Trichloropropane	U		0.00609	0.0149	1	10/12/2019 08:53	WG1361768
1,2,4-Trimethylbenzene	U		0.00138	0.00597	1	10/12/2019 08:53	WG1361768
1,2,3-Trimethylbenzene	U		0.00137	0.00597	1	10/12/2019 08:53	WG1361768
1,3,5-Trimethylbenzene	U		0.00129	0.00597	1	10/12/2019 08:53	WG1361768
Vinyl acetate	U UJ	J0	0.00420	0.0149	1	10/12/2019 08:53	WG1361768
Vinyl chloride	U		0.000815	0.00298	1	10/12/2019 08:53	WG1361768
Xylenes, Total	U		0.00570	0.00776	1	10/12/2019 08:53	WG1361768
(S) Toluene-d8	*107*			*75.0-131*		*10/12/2019 08:53*	WG1361768
(S) 4-Bromofluorobenzene	*97.5*			*67.0-138*		*10/12/2019 08:53*	WG1361768
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/12/2019 08:53*	WG1361768

JC 11/1/19

MW-302-25

Collected date/time: 10/01/19 10:25

SAMPLE RESULTS - 05

L1146028

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.2		1	10/10/2019 14:55	WG1360397

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0168	J	0.0154	0.0280	1	10/12/2019 09:14	WG1361768
Acrylonitrile	U		0.00213	0.0140	1	10/12/2019 09:14	WG1361768
Benzene	U		0.000448	0.00112	1	10/12/2019 09:14	WG1361768
Bromobenzene	U		0.00118	0.0140	1	10/12/2019 09:14	WG1361768
Bromodichloromethane	U		0.000883	0.00280	1	10/12/2019 09:14	WG1361768
Bromochloromethane	U		0.00127	0.00560	1	10/12/2019 09:14	WG1361768
Bromoform	U		0.00670	0.0280	1	10/12/2019 09:14	WG1361768
Bromomethane	U		0.00415	0.0140	1	10/12/2019 09:14	WG1361768
n-Butylbenzene	U		0.00430	0.0140	1	10/12/2019 09:14	WG1361768
sec-Butylbenzene	U		0.00284	0.0140	1	10/12/2019 09:14	WG1361768
tert-Butylbenzene	U		0.00174	0.00560	1	10/12/2019 09:14	WG1361768
Carbon disulfide	U		0.00455	0.0140	1	10/12/2019 09:14	WG1361768
Carbon tetrachloride	U		0.00121	0.00560	1	10/12/2019 09:14	WG1361768
Chlorobenzene	U		0.000642	0.00280	1	10/12/2019 09:14	WG1361768
Chlorodibromomethane	U		0.000504	0.00280	1	10/12/2019 09:14	WG1361768
Chloroethane	U		0.00121	0.00560	1	10/12/2019 09:14	WG1361768
Chloroform	U		0.000465	0.00280	1	10/12/2019 09:14	WG1361768
Chloromethane	U		0.00156	0.0140	1	10/12/2019 09:14	WG1361768
2-Chlorotoluene	U		0.00103	0.00280	1	10/12/2019 09:14	WG1361768
4-Chlorotoluene	U		0.00127	0.00560	1	10/12/2019 09:14	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00572	0.0280	1	10/12/2019 09:14	WG1361768
1,2-Dibromoethane	U		0.000588	0.00280	1	10/12/2019 09:14	WG1361768
Dibromomethane	U		0.00112	0.00560	1	10/12/2019 09:14	WG1361768
1,2-Dichlorobenzene	U		0.00163	0.00560	1	10/12/2019 09:14	WG1361768
1,3-Dichlorobenzene	U		0.00191	0.00560	1	10/12/2019 09:14	WG1361768
1,4-Dichlorobenzene	U		0.00221	0.00560	1	10/12/2019 09:14	WG1361768
Dichlorodifluoromethane	U		0.000917	0.00280	1	10/12/2019 09:14	WG1361768
1,1-Dichloroethane	U		0.000644	0.00280	1	10/12/2019 09:14	WG1361768
1,2-Dichloroethane	U		0.000532	0.00280	1	10/12/2019 09:14	WG1361768
1,1-Dichloroethene	U		0.000560	0.00280	1	10/12/2019 09:14	WG1361768
cis-1,2-Dichloroethene	U		0.000773	0.00280	1	10/12/2019 09:14	WG1361768
trans-1,2-Dichloroethene	U		0.00160	0.00560	1	10/12/2019 09:14	WG1361768
1,2-Dichloropropane	U		0.00142	0.00560	1	10/12/2019 09:14	WG1361768
1,1-Dichloropropene	U		0.000784	0.00280	1	10/12/2019 09:14	WG1361768
1,3-Dichloropropane	U		0.00196	0.00560	1	10/12/2019 09:14	WG1361768
cis-1,3-Dichloropropene	U		0.000760	0.00280	1	10/12/2019 09:14	WG1361768
trans-1,3-Dichloropropene	U		0.00171	0.00560	1	10/12/2019 09:14	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00157	0.00560	1	10/12/2019 09:14	WG1361768
2,2-Dichloropropane	U		0.000889	0.00280	1	10/12/2019 09:14	WG1361768
Di-isopropyl ether	U		0.000392	0.00112	1	10/12/2019 09:14	WG1361768
Ethylbenzene	U		0.000594	0.00280	1	10/12/2019 09:14	WG1361768
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	10/12/2019 09:14	WG1361768
2-Hexanone	U		0.0112	0.0280	1	10/12/2019 09:14	WG1361768
n-Hexane	U UJ	J0	0.00119	0.00560	1	10/12/2019 09:14	WG1361768
Iodomethane	U		0.00678	0.0140	1	10/12/2019 09:14	WG1361768
Isopropylbenzene	U		0.000967	0.00280	1	10/12/2019 09:14	WG1361768
p-Isopropyltoluene	U		0.00261	0.00560	1	10/12/2019 09:14	WG1361768
2-Butanone (MEK)	U		0.0140	0.0280	1	10/12/2019 09:14	WG1361768
Methylene Chloride	U		0.00744	0.0280	1	10/12/2019 09:14	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	10/12/2019 09:14	WG1361768

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	10/12/2019 09:14	WG1361768
Naphthalene	U		0.00350	0.0140	1	10/12/2019 09:14	WG1361768
n-Propylbenzene	U		0.00132	0.00560	1	10/12/2019 09:14	WG1361768
Styrene	U		0.00306	0.0140	1	10/12/2019 09:14	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000560	0.00280	1	10/12/2019 09:14	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000437	0.00280	1	10/12/2019 09:14	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000756	0.00280	1	10/12/2019 09:14	WG1361768
Tetrachloroethene	U		0.000784	0.00280	1	10/12/2019 09:14	WG1361768
Toluene	0.00443	J	0.00140	0.00560	1	10/12/2019 09:14	WG1361768
1,2,3-Trichlorobenzene	U		0.000700	0.00280	1	10/12/2019 09:14	WG1361768
1,2,4-Trichlorobenzene	U		0.00540	0.0140	1	10/12/2019 09:14	WG1361768
1,1,1-Trichloroethane	U		0.000308	0.00280	1	10/12/2019 09:14	WG1361768
1,1,2-Trichloroethane	U		0.000990	0.00280	1	10/12/2019 09:14	WG1361768
Trichloroethene	U		0.000448	0.00112	1	10/12/2019 09:14	WG1361768
Trichlorofluoromethane	U		0.000560	0.00280	1	10/12/2019 09:14	WG1361768
1,2,3-Trichloropropane	U		0.00572	0.0140	1	10/12/2019 09:14	WG1361768
1,2,4-Trimethylbenzene	U		0.00130	0.00560	1	10/12/2019 09:14	WG1361768
1,2,3-Trimethylbenzene	U		0.00129	0.00560	1	10/12/2019 09:14	WG1361768
1,3,5-Trimethylbenzene	U		0.00121	0.00560	1	10/12/2019 09:14	WG1361768
Vinyl acetate	U UJ	J0	0.00394	0.0140	1	10/12/2019 09:14	WG1361768
Vinyl chloride	U		0.000765	0.00280	1	10/12/2019 09:14	WG1361768
Xylenes, Total	U		0.00536	0.00728	1	10/12/2019 09:14	WG1361768
(S) Toluene-d8	*109*			*75.0-131*		*10/12/2019 09:14*	WG1361768
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*		*10/12/2019 09:14*	WG1361768
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*10/12/2019 09:14*	WG1361768

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.4		1	10/10/2019 14:55	WG1360397

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0273	1	10/12/2019 09:34	WG1361768
Acrylonitrile	U		0.00208	0.0137	1	10/12/2019 09:34	WG1361768
Benzene	U		0.000438	0.00109	1	10/12/2019 09:34	WG1361768
Bromobenzene	U		0.00115	0.0137	1	10/12/2019 09:34	WG1361768
Bromodichloromethane	U		0.000862	0.00273	1	10/12/2019 09:34	WG1361768
Bromochloromethane	U		0.00124	0.00547	1	10/12/2019 09:34	WG1361768
Bromoform	U		0.00654	0.0273	1	10/12/2019 09:34	WG1361768
Bromomethane	U		0.00405	0.0137	1	10/12/2019 09:34	WG1361768
n-Butylbenzene	U		0.00420	0.0137	1	10/12/2019 09:34	WG1361768
sec-Butylbenzene	U		0.00277	0.0137	1	10/12/2019 09:34	WG1361768
tert-Butylbenzene	U		0.00170	0.00547	1	10/12/2019 09:34	WG1361768
Carbon disulfide	U		0.00444	0.0137	1	10/12/2019 09:34	WG1361768
Carbon tetrachloride	U		0.00118	0.00547	1	10/12/2019 09:34	WG1361768
Chlorobenzene	U		0.000627	0.00273	1	10/12/2019 09:34	WG1361768
Chlorodibromomethane	U		0.000492	0.00273	1	10/12/2019 09:34	WG1361768
Chloroethane	U		0.00118	0.00547	1	10/12/2019 09:34	WG1361768
Chloroform	U		0.000454	0.00273	1	10/12/2019 09:34	WG1361768
Chloromethane	U		0.00152	0.0137	1	10/12/2019 09:34	WG1361768
2-Chlorotoluene	U		0.00101	0.00273	1	10/12/2019 09:34	WG1361768
4-Chlorotoluene	U		0.00124	0.00547	1	10/12/2019 09:34	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00558	0.0273	1	10/12/2019 09:34	WG1361768
1,2-Dibromoethane	U		0.000574	0.00273	1	10/12/2019 09:34	WG1361768
Dibromomethane	U		0.00109	0.00547	1	10/12/2019 09:34	WG1361768
1,2-Dichlorobenzene	U		0.00159	0.00547	1	10/12/2019 09:34	WG1361768
1,3-Dichlorobenzene	U		0.00186	0.00547	1	10/12/2019 09:34	WG1361768
1,4-Dichlorobenzene	U		0.00215	0.00547	1	10/12/2019 09:34	WG1361768
Dichlorodifluoromethane	U		0.000895	0.00273	1	10/12/2019 09:34	WG1361768
1,1-Dichloroethane	U		0.000629	0.00273	1	10/12/2019 09:34	WG1361768
1,2-Dichloroethane	U		0.000520	0.00273	1	10/12/2019 09:34	WG1361768
1,1-Dichloroethene	U		0.000547	0.00273	1	10/12/2019 09:34	WG1361768
cis-1,2-Dichloroethene	U		0.000755	0.00273	1	10/12/2019 09:34	WG1361768
trans-1,2-Dichloroethene	U		0.00156	0.00547	1	10/12/2019 09:34	WG1361768
1,2-Dichloropropane	U		0.00139	0.00547	1	10/12/2019 09:34	WG1361768
1,1-Dichloropropene	U		0.000766	0.00273	1	10/12/2019 09:34	WG1361768
1,3-Dichloropropane	U		0.00191	0.00547	1	10/12/2019 09:34	WG1361768
cis-1,3-Dichloropropene	U		0.000742	0.00273	1	10/12/2019 09:34	WG1361768
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	10/12/2019 09:34	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	10/12/2019 09:34	WG1361768
2,2-Dichloropropane	U		0.000867	0.00273	1	10/12/2019 09:34	WG1361768
Di-isopropyl ether	U		0.000383	0.00109	1	10/12/2019 09:34	WG1361768
Ethylbenzene	U		0.000580	0.00273	1	10/12/2019 09:34	WG1361768
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	10/12/2019 09:34	WG1361768
2-Hexanone	U		0.0109	0.0273	1	10/12/2019 09:34	WG1361768
n-Hexane	U UJ	J0	0.00116	0.00547	1	10/12/2019 09:34	WG1361768
Iodomethane	U		0.00662	0.0137	1	10/12/2019 09:34	WG1361768
Isopropylbenzene	U		0.000944	0.00273	1	10/12/2019 09:34	WG1361768
p-Isopropyltoluene	U		0.00255	0.00547	1	10/12/2019 09:34	WG1361768
2-Butanone (MEK)	U		0.0137	0.0273	1	10/12/2019 09:34	WG1361768
Methylene Chloride	U		0.00726	0.0273	1	10/12/2019 09:34	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/12/2019 09:34	WG1361768

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00109	1	10/12/2019 09:34	WG1361768
Naphthalene	U		0.00341	0.0137	1	10/12/2019 09:34	WG1361768
n-Propylbenzene	U		0.00129	0.00547	1	10/12/2019 09:34	WG1361768
Styrene	U		0.00299	0.0137	1	10/12/2019 09:34	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000547	0.00273	1	10/12/2019 09:34	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000427	0.00273	1	10/12/2019 09:34	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000738	0.00273	1	10/12/2019 09:34	WG1361768
Tetrachloroethene	U		0.000766	0.00273	1	10/12/2019 09:34	WG1361768
Toluene	0.00287	J	0.00137	0.00547	1	10/12/2019 09:34	WG1361768
1,2,3-Trichlorobenzene	U		0.000684	0.00273	1	10/12/2019 09:34	WG1361768
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	10/12/2019 09:34	WG1361768
1,1,1-Trichloroethane	U		0.000301	0.00273	1	10/12/2019 09:34	WG1361768
1,1,2-Trichloroethane	U		0.000966	0.00273	1	10/12/2019 09:34	WG1361768
Trichloroethene	U		0.000438	0.00109	1	10/12/2019 09:34	WG1361768
Trichlorofluoromethane	U		0.000547	0.00273	1	10/12/2019 09:34	WG1361768
1,2,3-Trichloropropane	U		0.00558	0.0137	1	10/12/2019 09:34	WG1361768
1,2,4-Trimethylbenzene	U		0.00127	0.00547	1	10/12/2019 09:34	WG1361768
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	10/12/2019 09:34	WG1361768
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	10/12/2019 09:34	WG1361768
Vinyl acetate	U UJ	J0	0.00385	0.0137	1	10/12/2019 09:34	WG1361768
Vinyl chloride	U		0.000747	0.00273	1	10/12/2019 09:34	WG1361768
Xylenes, Total	U		0.00523	0.00711	1	10/12/2019 09:34	WG1361768
(S) Toluene-d8	*109*			*75.0-131*		*10/12/2019 09:34*	WG1361768
(S) 4-Bromofluorobenzene	*97.9*			*67.0-138*		*10/12/2019 09:34*	WG1361768
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/12/2019 09:34*	WG1361768

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.0		1	10/10/2019 14:55	WG1360397

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0299		0.0147	0.0269	1	10/12/2019 09:55	WG1361768
Acrylonitrile	U		0.00204	0.0134	1	10/12/2019 09:55	WG1361768
Benzene	U		0.000430	0.00107	1	10/12/2019 09:55	WG1361768
Bromobenzene	U		0.00113	0.0134	1	10/12/2019 09:55	WG1361768
Bromodichloromethane	U		0.000847	0.00269	1	10/12/2019 09:55	WG1361768
Bromochloromethane	U		0.00121	0.00537	1	10/12/2019 09:55	WG1361768
Bromoform	U		0.00643	0.0269	1	10/12/2019 09:55	WG1361768
Bromomethane	U		0.00398	0.0134	1	10/12/2019 09:55	WG1361768
n-Butylbenzene	U		0.00413	0.0134	1	10/12/2019 09:55	WG1361768
sec-Butylbenzene	U		0.00272	0.0134	1	10/12/2019 09:55	WG1361768
tert-Butylbenzene	U		0.00167	0.00537	1	10/12/2019 09:55	WG1361768
Carbon disulfide	U		0.00436	0.0134	1	10/12/2019 09:55	WG1361768
Carbon tetrachloride	U		0.00116	0.00537	1	10/12/2019 09:55	WG1361768
Chlorobenzene	U		0.000616	0.00269	1	10/12/2019 09:55	WG1361768
Chlorodibromomethane	U		0.000484	0.00269	1	10/12/2019 09:55	WG1361768
Chloroethane	U		0.00116	0.00537	1	10/12/2019 09:55	WG1361768
Chloroform	U		0.000446	0.00269	1	10/12/2019 09:55	WG1361768
Chloromethane	U		0.00149	0.0134	1	10/12/2019 09:55	WG1361768
2-Chlorotoluene	U		0.000989	0.00269	1	10/12/2019 09:55	WG1361768
4-Chlorotoluene	U		0.00121	0.00537	1	10/12/2019 09:55	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00548	0.0269	1	10/12/2019 09:55	WG1361768
1,2-Dibromoethane	U		0.000564	0.00269	1	10/12/2019 09:55	WG1361768
Dibromomethane	U		0.00107	0.00537	1	10/12/2019 09:55	WG1361768
1,2-Dichlorobenzene	U		0.00156	0.00537	1	10/12/2019 09:55	WG1361768
1,3-Dichlorobenzene	U		0.00183	0.00537	1	10/12/2019 09:55	WG1361768
1,4-Dichlorobenzene	U		0.00212	0.00537	1	10/12/2019 09:55	WG1361768
Dichlorodifluoromethane	U		0.000879	0.00269	1	10/12/2019 09:55	WG1361768
1,1-Dichloroethane	U		0.000618	0.00269	1	10/12/2019 09:55	WG1361768
1,2-Dichloroethane	U		0.000511	0.00269	1	10/12/2019 09:55	WG1361768
1,1-Dichloroethene	U		0.000537	0.00269	1	10/12/2019 09:55	WG1361768
cis-1,2-Dichloroethene	U		0.000742	0.00269	1	10/12/2019 09:55	WG1361768
trans-1,2-Dichloroethene	U		0.00154	0.00537	1	10/12/2019 09:55	WG1361768
1,2-Dichloropropane	U		0.00136	0.00537	1	10/12/2019 09:55	WG1361768
1,1-Dichloropropene	U		0.000752	0.00269	1	10/12/2019 09:55	WG1361768
1,3-Dichloropropane	U		0.00188	0.00537	1	10/12/2019 09:55	WG1361768
cis-1,3-Dichloropropene	U		0.000729	0.00269	1	10/12/2019 09:55	WG1361768
trans-1,3-Dichloropropene	U		0.00164	0.00537	1	10/12/2019 09:55	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00150	0.00537	1	10/12/2019 09:55	WG1361768
2,2-Dichloropropane	U		0.000852	0.00269	1	10/12/2019 09:55	WG1361768
Di-isopropyl ether	U		0.000376	0.00107	1	10/12/2019 09:55	WG1361768
Ethylbenzene	U		0.000570	0.00269	1	10/12/2019 09:55	WG1361768
Hexachloro-1,3-butadiene	U		0.0136	0.0269	1	10/12/2019 09:55	WG1361768
2-Hexanone	U		0.0107	0.0269	1	10/12/2019 09:55	WG1361768
n-Hexane	U UJ	J0	0.00114	0.00537	1	10/12/2019 09:55	WG1361768
Iodomethane	U		0.00650	0.0134	1	10/12/2019 09:55	WG1361768
Isopropylbenzene	U		0.000928	0.00269	1	10/12/2019 09:55	WG1361768
p-Isopropyltoluene	U		0.00250	0.00537	1	10/12/2019 09:55	WG1361768
2-Butanone (MEK)	U		0.0134	0.0269	1	10/12/2019 09:55	WG1361768
Methylene Chloride	U		0.00714	0.0269	1	10/12/2019 09:55	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0269	1	10/12/2019 09:55	WG1361768

JC 11/1/19

MW-302-35

Collected date/time: 10/01/19 10:50

SAMPLE RESULTS - 07

L1146028

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000317	0.00107	1	10/12/2019 09:55	WG1361768
Naphthalene	U		0.00335	0.0134	1	10/12/2019 09:55	WG1361768
n-Propylbenzene	U		0.00127	0.00537	1	10/12/2019 09:55	WG1361768
Styrene	U		0.00293	0.0134	1	10/12/2019 09:55	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000537	0.00269	1	10/12/2019 09:55	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000419	0.00269	1	10/12/2019 09:55	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000725	0.00269	1	10/12/2019 09:55	WG1361768
Tetrachloroethene	U		0.000752	0.00269	1	10/12/2019 09:55	WG1361768
Toluene	0.00440	J	0.00134	0.00537	1	10/12/2019 09:55	WG1361768
1,2,3-Trichlorobenzene	U		0.000672	0.00269	1	10/12/2019 09:55	WG1361768
1,2,4-Trichlorobenzene	U		0.00518	0.0134	1	10/12/2019 09:55	WG1361768
1,1,1-Trichloroethane	U		0.000296	0.00269	1	10/12/2019 09:55	WG1361768
1,1,2-Trichloroethane	U		0.000949	0.00269	1	10/12/2019 09:55	WG1361768
Trichloroethene	U		0.000430	0.00107	1	10/12/2019 09:55	WG1361768
Trichlorofluoromethane	U		0.000537	0.00269	1	10/12/2019 09:55	WG1361768
1,2,3-Trichloropropane	U		0.00548	0.0134	1	10/12/2019 09:55	WG1361768
1,2,4-Trimethylbenzene	U		0.00125	0.00537	1	10/12/2019 09:55	WG1361768
1,2,3-Trimethylbenzene	U		0.00124	0.00537	1	10/12/2019 09:55	WG1361768
1,3,5-Trimethylbenzene	U		0.00116	0.00537	1	10/12/2019 09:55	WG1361768
Vinyl acetate	U UJ	J0	0.00378	0.0134	1	10/12/2019 09:55	WG1361768
Vinyl chloride	U		0.000734	0.00269	1	10/12/2019 09:55	WG1361768
Xylenes, Total	U		0.00514	0.00699	1	10/12/2019 09:55	WG1361768
(S) Toluene-d8	*109*			*75.0-131*		*10/12/2019 09:55*	WG1361768
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/12/2019 09:55*	WG1361768
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*10/12/2019 09:55*	WG1361768

JC 11/1/19

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.0		1	10/10/2019 14:55	WG1360397

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Acetone	0.0200	J	0.0146	0.0266	1	10/12/2019 10:15	WG1361768	
Acrylonitrile	U		0.00202	0.0133	1	10/12/2019 10:15	WG1361768	
Benzene	U		0.000425	0.00106	1	10/12/2019 10:15	WG1361768	
Bromobenzene	U		0.00112	0.0133	1	10/12/2019 10:15	WG1361768	
Bromodichloromethane	U		0.000838	0.00266	1	10/12/2019 10:15	WG1361768	
Bromochloromethane	U		0.00120	0.00532	1	10/12/2019 10:15	WG1361768	
Bromoform	U		0.00636	0.0266	1	10/12/2019 10:15	WG1361768	
Bromomethane	U		0.00394	0.0133	1	10/12/2019 10:15	WG1361768	
n-Butylbenzene	U		0.00408	0.0133	1	10/12/2019 10:15	WG1361768	
sec-Butylbenzene	U		0.00269	0.0133	1	10/12/2019 10:15	WG1361768	
tert-Butylbenzene	U		0.00165	0.00532	1	10/12/2019 10:15	WG1361768	
Carbon disulfide	U		0.00432	0.0133	1	10/12/2019 10:15	WG1361768	
Carbon tetrachloride	U		0.00115	0.00532	1	10/12/2019 10:15	WG1361768	
Chlorobenzene	U		0.000610	0.00266	1	10/12/2019 10:15	WG1361768	
Chlorodibromomethane	U		0.000479	0.00266	1	10/12/2019 10:15	WG1361768	
Chloroethane	U		0.00115	0.00532	1	10/12/2019 10:15	WG1361768	
Chloroform	U		0.000441	0.00266	1	10/12/2019 10:15	WG1361768	
Chloromethane	U		0.00148	0.0133	1	10/12/2019 10:15	WG1361768	
2-Chlorotoluene	U		0.000979	0.00266	1	10/12/2019 10:15	WG1361768	
4-Chlorotoluene	U		0.00120	0.00532	1	10/12/2019 10:15	WG1361768	
1,2-Dibromo-3-Chloropropane	U		0.00542	0.0266	1	10/12/2019 10:15	WG1361768	
1,2-Dibromoethane	U		0.000558	0.00266	1	10/12/2019 10:15	WG1361768	
Dibromomethane	U		0.00106	0.00532	1	10/12/2019 10:15	WG1361768	
1,2-Dichlorobenzene	U		0.00154	0.00532	1	10/12/2019 10:15	WG1361768	
1,3-Dichlorobenzene	U		0.00181	0.00532	1	10/12/2019 10:15	WG1361768	
1,4-Dichlorobenzene	U		0.00210	0.00532	1	10/12/2019 10:15	WG1361768	
Dichlorodifluoromethane	U		0.000870	0.00266	1	10/12/2019 10:15	WG1361768	
1,1-Dichloroethane	U		0.000612	0.00266	1	10/12/2019 10:15	WG1361768	
1,2-Dichloroethane	U		0.000505	0.00266	1	10/12/2019 10:15	WG1361768	
1,1-Dichloroethene	U		0.000532	0.00266	1	10/12/2019 10:15	WG1361768	
cis-1,2-Dichloroethene	U		0.000734	0.00266	1	10/12/2019 10:15	WG1361768	
trans-1,2-Dichloroethene	U		0.00152	0.00532	1	10/12/2019 10:15	WG1361768	
1,2-Dichloropropane	U		0.00135	0.00532	1	10/12/2019 10:15	WG1361768	
1,1-Dichloropropene	U		0.000745	0.00266	1	10/12/2019 10:15	WG1361768	
1,3-Dichloropropane	U		0.00186	0.00532	1	10/12/2019 10:15	WG1361768	
cis-1,3-Dichloropropene	U		0.000721	0.00266	1	10/12/2019 10:15	WG1361768	
trans-1,3-Dichloropropene	U		0.00163	0.00532	1	10/12/2019 10:15	WG1361768	
trans-1,4-Dichloro-2-butene	U		0.00149	0.00532	1	10/12/2019 10:15	WG1361768	
2,2-Dichloropropane	U		0.000844	0.00266	1	10/12/2019 10:15	WG1361768	
Di-isopropyl ether	U		0.000372	0.00106	1	10/12/2019 10:15	WG1361768	
Ethylbenzene	U		0.000564	0.00266	1	10/12/2019 10:15	WG1361768	
Hexachloro-1,3-butadiene	U		0.0135	0.0266	1	10/12/2019 10:15	WG1361768	
2-Hexanone	U		0.0106	0.0266	1	10/12/2019 10:15	WG1361768	
n-Hexane	U UJ	J0	0.00113	0.00532	1	10/12/2019 10:15	WG1361768	
Iodomethane	U		0.00644	0.0133	1	10/12/2019 10:15	WG1361768	
Isopropylbenzene	U		0.000918	0.00266	1	10/12/2019 10:15	WG1361768	JC 11/1/19
p-Isopropyltoluene	U		0.00248	0.00532	1	10/12/2019 10:15	WG1361768	
2-Butanone (MEK)	U		0.0133	0.0266	1	10/12/2019 10:15	WG1361768	
Methylene Chloride	U		0.00706	0.0266	1	10/12/2019 10:15	WG1361768	
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0266	1	10/12/2019 10:15	WG1361768	

MW-302-40

Collected date/time: 10/01/19 10:55

SAMPLE RESULTS - 08

L1146028

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000314	0.00106	1	10/12/2019 10:15	WG1361768
Naphthalene	U		0.00332	0.0133	1	10/12/2019 10:15	WG1361768
n-Propylbenzene	U		0.00126	0.00532	1	10/12/2019 10:15	WG1361768
Styrene	U		0.00290	0.0133	1	10/12/2019 10:15	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000532	0.00266	1	10/12/2019 10:15	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000415	0.00266	1	10/12/2019 10:15	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000718	0.00266	1	10/12/2019 10:15	WG1361768
Tetrachloroethene	U		0.000745	0.00266	1	10/12/2019 10:15	WG1361768
Toluene	0.00484	J	0.00133	0.00532	1	10/12/2019 10:15	WG1361768
1,2,3-Trichlorobenzene	U		0.000665	0.00266	1	10/12/2019 10:15	WG1361768
1,2,4-Trichlorobenzene	U		0.00513	0.0133	1	10/12/2019 10:15	WG1361768
1,1,1-Trichloroethane	U		0.000293	0.00266	1	10/12/2019 10:15	WG1361768
1,1,2-Trichloroethane	U		0.000939	0.00266	1	10/12/2019 10:15	WG1361768
Trichloroethene	U		0.000425	0.00106	1	10/12/2019 10:15	WG1361768
Trichlorofluoromethane	U		0.000532	0.00266	1	10/12/2019 10:15	WG1361768
1,2,3-Trichloropropane	U		0.00542	0.0133	1	10/12/2019 10:15	WG1361768
1,2,4-Trimethylbenzene	U		0.00123	0.00532	1	10/12/2019 10:15	WG1361768
1,2,3-Trimethylbenzene	U		0.00122	0.00532	1	10/12/2019 10:15	WG1361768
1,3,5-Trimethylbenzene	U		0.00115	0.00532	1	10/12/2019 10:15	WG1361768
Vinyl acetate	U UJ	J0	0.00374	0.0133	1	10/12/2019 10:15	WG1361768
Vinyl chloride	U		0.000727	0.00266	1	10/12/2019 10:15	WG1361768
Xylenes, Total	U		0.00508	0.00691	1	10/12/2019 10:15	WG1361768
(S) Toluene-d8	*108*			*75.0-131*		*10/12/2019 10:15*	WG1361768
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*10/12/2019 10:15*	WG1361768
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/12/2019 10:15*	WG1361768

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.9		1	10/10/2019 14:55	WG1360397

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0581		0.0163	0.0298	1	10/12/2019 10:36	WG1361768
Acrylonitrile	U		0.00226	0.0149	1	10/12/2019 10:36	WG1361768
Benzene	U		0.000477	0.00119	1	10/12/2019 10:36	WG1361768
Bromobenzene	U		0.00125	0.0149	1	10/12/2019 10:36	WG1361768
Bromodichloromethane	U		0.000939	0.00298	1	10/12/2019 10:36	WG1361768
Bromochloromethane	U		0.00135	0.00596	1	10/12/2019 10:36	WG1361768
Bromoform	U		0.00712	0.0298	1	10/12/2019 10:36	WG1361768
Bromomethane	U		0.00441	0.0149	1	10/12/2019 10:36	WG1361768
n-Butylbenzene	U		0.00458	0.0149	1	10/12/2019 10:36	WG1361768
sec-Butylbenzene	U		0.00301	0.0149	1	10/12/2019 10:36	WG1361768
tert-Butylbenzene	U		0.00185	0.00596	1	10/12/2019 10:36	WG1361768
Carbon disulfide	U		0.00484	0.0149	1	10/12/2019 10:36	WG1361768
Carbon tetrachloride	U		0.00129	0.00596	1	10/12/2019 10:36	WG1361768
Chlorobenzene	U		0.000683	0.00298	1	10/12/2019 10:36	WG1361768
Chlorodibromomethane	U		0.000536	0.00298	1	10/12/2019 10:36	WG1361768
Chloroethane	U		0.00129	0.00596	1	10/12/2019 10:36	WG1361768
Chloroform	U		0.000494	0.00298	1	10/12/2019 10:36	WG1361768
Chloromethane	U		0.00166	0.0149	1	10/12/2019 10:36	WG1361768
2-Chlorotoluene	U		0.00110	0.00298	1	10/12/2019 10:36	WG1361768
4-Chlorotoluene	U		0.00135	0.00596	1	10/12/2019 10:36	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00608	0.0298	1	10/12/2019 10:36	WG1361768
1,2-Dibromoethane	U		0.000626	0.00298	1	10/12/2019 10:36	WG1361768
Dibromomethane	U		0.00119	0.00596	1	10/12/2019 10:36	WG1361768
1,2-Dichlorobenzene	U		0.00173	0.00596	1	10/12/2019 10:36	WG1361768
1,3-Dichlorobenzene	U		0.00203	0.00596	1	10/12/2019 10:36	WG1361768
1,4-Dichlorobenzene	U		0.00235	0.00596	1	10/12/2019 10:36	WG1361768
Dichlorodifluoromethane	U		0.000975	0.00298	1	10/12/2019 10:36	WG1361768
1,1-Dichloroethane	U		0.000685	0.00298	1	10/12/2019 10:36	WG1361768
1,2-Dichloroethane	U		0.000566	0.00298	1	10/12/2019 10:36	WG1361768
1,1-Dichloroethene	U		0.000596	0.00298	1	10/12/2019 10:36	WG1361768
cis-1,2-Dichloroethene	U		0.000822	0.00298	1	10/12/2019 10:36	WG1361768
trans-1,2-Dichloroethene	U		0.00170	0.00596	1	10/12/2019 10:36	WG1361768
1,2-Dichloropropane	U		0.00151	0.00596	1	10/12/2019 10:36	WG1361768
1,1-Dichloropropene	U		0.000834	0.00298	1	10/12/2019 10:36	WG1361768
1,3-Dichloropropane	U		0.00209	0.00596	1	10/12/2019 10:36	WG1361768
cis-1,3-Dichloropropene	U		0.000808	0.00298	1	10/12/2019 10:36	WG1361768
trans-1,3-Dichloropropene	U		0.00182	0.00596	1	10/12/2019 10:36	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00167	0.00596	1	10/12/2019 10:36	WG1361768
2,2-Dichloropropane	U		0.000945	0.00298	1	10/12/2019 10:36	WG1361768
Di-isopropyl ether	U		0.000417	0.00119	1	10/12/2019 10:36	WG1361768
Ethylbenzene	U		0.000631	0.00298	1	10/12/2019 10:36	WG1361768
Hexachloro-1,3-butadiene	U		0.0151	0.0298	1	10/12/2019 10:36	WG1361768
2-Hexanone	U		0.0119	0.0298	1	10/12/2019 10:36	WG1361768
n-Hexane	U UJ	J0	0.00126	0.00596	1	10/12/2019 10:36	WG1361768
Iodomethane	U		0.00721	0.0149	1	10/12/2019 10:36	WG1361768
Isopropylbenzene	U		0.00103	0.00298	1	10/12/2019 10:36	WG1361768
p-Isopropyltoluene	U		0.00278	0.00596	1	10/12/2019 10:36	WG1361768
2-Butanone (MEK)	U		0.0149	0.0298	1	10/12/2019 10:36	WG1361768
Methylene Chloride	U		0.00791	0.0298	1	10/12/2019 10:36	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	10/12/2019 10:36	WG1361768

JC 11/1/19

MW-302-45

Collected date/time: 10/01/19 11:15

SAMPLE RESULTS - 09

L1146028

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000351	0.00119	1	10/12/2019 10:36	WG1361768
Naphthalene	U		0.00372	0.0149	1	10/12/2019 10:36	WG1361768
n-Propylbenzene	U		0.00141	0.00596	1	10/12/2019 10:36	WG1361768
Styrene	U		0.00325	0.0149	1	10/12/2019 10:36	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000596	0.00298	1	10/12/2019 10:36	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000465	0.00298	1	10/12/2019 10:36	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000804	0.00298	1	10/12/2019 10:36	WG1361768
Tetrachloroethene	U		0.000834	0.00298	1	10/12/2019 10:36	WG1361768
Toluene	0.0222		0.00149	0.00596	1	10/12/2019 10:36	WG1361768
1,2,3-Trichlorobenzene	U		0.000745	0.00298	1	10/12/2019 10:36	WG1361768
1,2,4-Trichlorobenzene	U		0.00574	0.0149	1	10/12/2019 10:36	WG1361768
1,1,1-Trichloroethane	U		0.000328	0.00298	1	10/12/2019 10:36	WG1361768
1,1,2-Trichloroethane	U		0.00105	0.00298	1	10/12/2019 10:36	WG1361768
Trichloroethene	U		0.000477	0.00119	1	10/12/2019 10:36	WG1361768
Trichlorofluoromethane	U		0.000596	0.00298	1	10/12/2019 10:36	WG1361768
1,2,3-Trichloropropane	U		0.00608	0.0149	1	10/12/2019 10:36	WG1361768
1,2,4-Trimethylbenzene	U		0.00138	0.00596	1	10/12/2019 10:36	WG1361768
1,2,3-Trimethylbenzene	U		0.00137	0.00596	1	10/12/2019 10:36	WG1361768
1,3,5-Trimethylbenzene	U		0.00129	0.00596	1	10/12/2019 10:36	WG1361768
Vinyl acetate	U UJ	J0	0.00419	0.0149	1	10/12/2019 10:36	WG1361768
Vinyl chloride	U		0.000814	0.00298	1	10/12/2019 10:36	WG1361768
Xylenes, Total	U		0.00570	0.00774	1	10/12/2019 10:36	WG1361768
(S) Toluene-d8	*111*			*75.0-131*		*10/12/2019 10:36*	WG1361768
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/12/2019 10:36*	WG1361768
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/12/2019 10:36*	WG1361768

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-302-50

Collected date/time: 10/01/19 11:20

SAMPLE RESULTS - 10

L1146028

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	83.7		1	10/10/2019 14:55	WG1360397

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0540		0.0164	0.0299	1	10/12/2019 11:01	WG1361768
Acrylonitrile	U		0.00227	0.0149	1	10/12/2019 11:01	WG1361768
Benzene	U		0.000478	0.00119	1	10/12/2019 11:01	WG1361768
Bromobenzene	U		0.00125	0.0149	1	10/12/2019 11:01	WG1361768
Bromodichloromethane	U		0.000941	0.00299	1	10/12/2019 11:01	WG1361768
Bromochloromethane	U		0.00135	0.00597	1	10/12/2019 11:01	WG1361768
Bromoform	U		0.00714	0.0299	1	10/12/2019 11:01	WG1361768
Bromomethane	U		0.00442	0.0149	1	10/12/2019 11:01	WG1361768
n-Butylbenzene	U		0.00459	0.0149	1	10/12/2019 11:01	WG1361768
sec-Butylbenzene	U		0.00302	0.0149	1	10/12/2019 11:01	WG1361768
tert-Butylbenzene	U		0.00185	0.00597	1	10/12/2019 11:01	WG1361768
Carbon disulfide	U		0.00485	0.0149	1	10/12/2019 11:01	WG1361768
Carbon tetrachloride	U		0.00129	0.00597	1	10/12/2019 11:01	WG1361768
Chlorobenzene	U		0.000684	0.00299	1	10/12/2019 11:01	WG1361768
Chlorodibromomethane	U		0.000537	0.00299	1	10/12/2019 11:01	WG1361768
Chloroethane	U		0.00129	0.00597	1	10/12/2019 11:01	WG1361768
Chloroform	U		0.000496	0.00299	1	10/12/2019 11:01	WG1361768
Chloromethane	U		0.00166	0.0149	1	10/12/2019 11:01	WG1361768
2-Chlorotoluene	U		0.00110	0.00299	1	10/12/2019 11:01	WG1361768
4-Chlorotoluene	U		0.00135	0.00597	1	10/12/2019 11:01	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00609	0.0299	1	10/12/2019 11:01	WG1361768
1,2-Dibromoethane	U		0.000627	0.00299	1	10/12/2019 11:01	WG1361768
Dibromomethane	U		0.00119	0.00597	1	10/12/2019 11:01	WG1361768
1,2-Dichlorobenzene	U		0.00173	0.00597	1	10/12/2019 11:01	WG1361768
1,3-Dichlorobenzene	U		0.00203	0.00597	1	10/12/2019 11:01	WG1361768
1,4-Dichlorobenzene	U		0.00235	0.00597	1	10/12/2019 11:01	WG1361768
Dichlorodifluoromethane	U		0.000977	0.00299	1	10/12/2019 11:01	WG1361768
1,1-Dichloroethane	U		0.000687	0.00299	1	10/12/2019 11:01	WG1361768
1,2-Dichloroethane	U		0.000567	0.00299	1	10/12/2019 11:01	WG1361768
1,1-Dichloroethene	U		0.000597	0.00299	1	10/12/2019 11:01	WG1361768
cis-1,2-Dichloroethene	U		0.000824	0.00299	1	10/12/2019 11:01	WG1361768
trans-1,2-Dichloroethene	U		0.00171	0.00597	1	10/12/2019 11:01	WG1361768
1,2-Dichloropropane	U		0.00152	0.00597	1	10/12/2019 11:01	WG1361768
1,1-Dichloropropene	U		0.000836	0.00299	1	10/12/2019 11:01	WG1361768
1,3-Dichloropropane	U		0.00209	0.00597	1	10/12/2019 11:01	WG1361768
cis-1,3-Dichloropropene	U		0.000810	0.00299	1	10/12/2019 11:01	WG1361768
trans-1,3-Dichloropropene	U		0.00183	0.00597	1	10/12/2019 11:01	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00167	0.00597	1	10/12/2019 11:01	WG1361768
2,2-Dichloropropane	U		0.000947	0.00299	1	10/12/2019 11:01	WG1361768
Di-isopropyl ether	U		0.000418	0.00119	1	10/12/2019 11:01	WG1361768
Ethylbenzene	U		0.000633	0.00299	1	10/12/2019 11:01	WG1361768
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	10/12/2019 11:01	WG1361768
2-Hexanone	U		0.0119	0.0299	1	10/12/2019 11:01	WG1361768
n-Hexane	0.0105 J	J0	0.00127	0.00597	1	10/12/2019 11:01	WG1361768
Iodomethane	U		0.00722	0.0149	1	10/12/2019 11:01	WG1361768
Isopropylbenzene	U		0.00103	0.00299	1	10/12/2019 11:01	WG1361768
p-Isopropyltoluene	U		0.00278	0.00597	1	10/12/2019 11:01	WG1361768
2-Butanone (MEK)	U		0.0149	0.0299	1	10/12/2019 11:01	WG1361768
Methylene Chloride	U		0.00793	0.0299	1	10/12/2019 11:01	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0299	1	10/12/2019 11:01	WG1361768

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	10/12/2019 11:01	WG1361768
Naphthalene	U		0.00373	0.0149	1	10/12/2019 11:01	WG1361768
n-Propylbenzene	U		0.00141	0.00597	1	10/12/2019 11:01	WG1361768
Styrene	U		0.00326	0.0149	1	10/12/2019 11:01	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000597	0.00299	1	10/12/2019 11:01	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000466	0.00299	1	10/12/2019 11:01	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000806	0.00299	1	10/12/2019 11:01	WG1361768
Tetrachloroethene	U		0.000836	0.00299	1	10/12/2019 11:01	WG1361768
Toluene	0.0158		0.00149	0.00597	1	10/12/2019 11:01	WG1361768
1,2,3-Trichlorobenzene	U		0.000746	0.00299	1	10/12/2019 11:01	WG1361768
1,2,4-Trichlorobenzene	U		0.00576	0.0149	1	10/12/2019 11:01	WG1361768
1,1,1-Trichloroethane	U		0.000328	0.00299	1	10/12/2019 11:01	WG1361768
1,1,2-Trichloroethane	U		0.00105	0.00299	1	10/12/2019 11:01	WG1361768
Trichloroethene	U		0.000478	0.00119	1	10/12/2019 11:01	WG1361768
Trichlorofluoromethane	U		0.000597	0.00299	1	10/12/2019 11:01	WG1361768
1,2,3-Trichloropropane	U		0.00609	0.0149	1	10/12/2019 11:01	WG1361768
1,2,4-Trimethylbenzene	U		0.00139	0.00597	1	10/12/2019 11:01	WG1361768
1,2,3-Trimethylbenzene	U		0.00137	0.00597	1	10/12/2019 11:01	WG1361768
1,3,5-Trimethylbenzene	U		0.00129	0.00597	1	10/12/2019 11:01	WG1361768
Vinyl acetate	U	UJ J0	0.00420	0.0149	1	10/12/2019 11:01	WG1361768
Vinyl chloride	U		0.000816	0.00299	1	10/12/2019 11:01	WG1361768
Xylenes, Total	U		0.00571	0.00776	1	10/12/2019 11:01	WG1361768
(S) Toluene-d8	*109*			*75.0-131*		*10/12/2019 11:01*	WG1361768
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*10/12/2019 11:01*	WG1361768
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/12/2019 11:01*	WG1361768

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MW-302-55

Collected date/time: 10/01/19 11:40

SAMPLE RESULTS - 11

L1146028

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.0		1	10/10/2019 14:41	WG1360399

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0182	J	0.0156	0.0284	1	10/12/2019 11:21	WG1361768
Acrylonitrile	U		0.00216	0.0142	1	10/12/2019 11:21	WG1361768
Benzene	U		0.000455	0.00114	1	10/12/2019 11:21	WG1361768
Bromobenzene	U		0.00119	0.0142	1	10/12/2019 11:21	WG1361768
Bromodichloromethane	U		0.000895	0.00284	1	10/12/2019 11:21	WG1361768
Bromochloromethane	U		0.00128	0.00568	1	10/12/2019 11:21	WG1361768
Bromoform	U		0.00680	0.0284	1	10/12/2019 11:21	WG1361768
Bromomethane	U		0.00420	0.0142	1	10/12/2019 11:21	WG1361768
n-Butylbenzene	U		0.00436	0.0142	1	10/12/2019 11:21	WG1361768
sec-Butylbenzene	U		0.00287	0.0142	1	10/12/2019 11:21	WG1361768
tert-Butylbenzene	U		0.00176	0.00568	1	10/12/2019 11:21	WG1361768
Carbon disulfide	0.00497	J	0.00461	0.0142	1	10/12/2019 11:21	WG1361768
Carbon tetrachloride	U		0.00123	0.00568	1	10/12/2019 11:21	WG1361768
Chlorobenzene	U		0.000651	0.00284	1	10/12/2019 11:21	WG1361768
Chlorodibromomethane	U		0.000511	0.00284	1	10/12/2019 11:21	WG1361768
Chloroethane	U		0.00123	0.00568	1	10/12/2019 11:21	WG1361768
Chloroform	U		0.000472	0.00284	1	10/12/2019 11:21	WG1361768
Chloromethane	U		0.00158	0.0142	1	10/12/2019 11:21	WG1361768
2-Chlorotoluene	U		0.00105	0.00284	1	10/12/2019 11:21	WG1361768
4-Chlorotoluene	U		0.00128	0.00568	1	10/12/2019 11:21	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00580	0.0284	1	10/12/2019 11:21	WG1361768
1,2-Dibromoethane	U		0.000597	0.00284	1	10/12/2019 11:21	WG1361768
Dibromomethane	U		0.00114	0.00568	1	10/12/2019 11:21	WG1361768
1,2-Dichlorobenzene	U		0.00165	0.00568	1	10/12/2019 11:21	WG1361768
1,3-Dichlorobenzene	U		0.00193	0.00568	1	10/12/2019 11:21	WG1361768
1,4-Dichlorobenzene	U		0.00224	0.00568	1	10/12/2019 11:21	WG1361768
Dichlorodifluoromethane	U		0.000930	0.00284	1	10/12/2019 11:21	WG1361768
1,1-Dichloroethane	U		0.000653	0.00284	1	10/12/2019 11:21	WG1361768
1,2-Dichloroethane	U		0.000540	0.00284	1	10/12/2019 11:21	WG1361768
1,1-Dichloroethene	U		0.000568	0.00284	1	10/12/2019 11:21	WG1361768
cis-1,2-Dichloroethene	U		0.000784	0.00284	1	10/12/2019 11:21	WG1361768
trans-1,2-Dichloroethene	U		0.00162	0.00568	1	10/12/2019 11:21	WG1361768
1,2-Dichloropropane	U		0.00144	0.00568	1	10/12/2019 11:21	WG1361768
1,1-Dichloropropene	U		0.000795	0.00284	1	10/12/2019 11:21	WG1361768
1,3-Dichloropropane	U		0.00199	0.00568	1	10/12/2019 11:21	WG1361768
cis-1,3-Dichloropropene	U		0.000770	0.00284	1	10/12/2019 11:21	WG1361768
trans-1,3-Dichloropropene	U		0.00174	0.00568	1	10/12/2019 11:21	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00159	0.00568	1	10/12/2019 11:21	WG1361768
2,2-Dichloropropane	U		0.000901	0.00284	1	10/12/2019 11:21	WG1361768
Di-isopropyl ether	U		0.000398	0.00114	1	10/12/2019 11:21	WG1361768
Ethylbenzene	U		0.000602	0.00284	1	10/12/2019 11:21	WG1361768
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	10/12/2019 11:21	WG1361768
2-Hexanone	U		0.0114	0.0284	1	10/12/2019 11:21	WG1361768
n-Hexane	U UJ	J0	0.00120	0.00568	1	10/12/2019 11:21	WG1361768
Iodomethane	U		0.00687	0.0142	1	10/12/2019 11:21	WG1361768
Isopropylbenzene	U		0.000981	0.00284	1	10/12/2019 11:21	WG1361768
p-Isopropyltoluene	U		0.00265	0.00568	1	10/12/2019 11:21	WG1361768
2-Butanone (MEK)	U		0.0142	0.0284	1	10/12/2019 11:21	WG1361768
Methylene Chloride	U		0.00755	0.0284	1	10/12/2019 11:21	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0284	1	10/12/2019 11:21	WG1361768

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000335	0.00114	1	10/12/2019 11:21	WG1361768
Naphthalene	U		0.00355	0.0142	1	10/12/2019 11:21	WG1361768
n-Propylbenzene	U		0.00134	0.00568	1	10/12/2019 11:21	WG1361768
Styrene	U		0.00310	0.0142	1	10/12/2019 11:21	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000568	0.00284	1	10/12/2019 11:21	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000443	0.00284	1	10/12/2019 11:21	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000767	0.00284	1	10/12/2019 11:21	WG1361768
Tetrachloroethene	U		0.000795	0.00284	1	10/12/2019 11:21	WG1361768
Toluene	0.00449	J	0.00142	0.00568	1	10/12/2019 11:21	WG1361768
1,2,3-Trichlorobenzene	U		0.000710	0.00284	1	10/12/2019 11:21	WG1361768
1,2,4-Trichlorobenzene	U		0.00548	0.0142	1	10/12/2019 11:21	WG1361768
1,1,1-Trichloroethane	U		0.000312	0.00284	1	10/12/2019 11:21	WG1361768
1,1,2-Trichloroethane	U		0.00100	0.00284	1	10/12/2019 11:21	WG1361768
Trichloroethene	U		0.000455	0.00114	1	10/12/2019 11:21	WG1361768
Trichlorofluoromethane	U		0.000568	0.00284	1	10/12/2019 11:21	WG1361768
1,2,3-Trichloropropane	U		0.00580	0.0142	1	10/12/2019 11:21	WG1361768
1,2,4-Trimethylbenzene	U		0.00132	0.00568	1	10/12/2019 11:21	WG1361768
1,2,3-Trimethylbenzene	U		0.00131	0.00568	1	10/12/2019 11:21	WG1361768
1,3,5-Trimethylbenzene	U		0.00123	0.00568	1	10/12/2019 11:21	WG1361768
Vinyl acetate	U UJ	J0	0.00400	0.0142	1	10/12/2019 11:21	WG1361768
Vinyl chloride	U		0.000776	0.00284	1	10/12/2019 11:21	WG1361768
Xylenes, Total	U		0.00543	0.00739	1	10/12/2019 11:21	WG1361768
(S) Toluene-d8	*110*			*75.0-131*		*10/12/2019 11:21*	WG1361768
(S) 4-Bromofluorobenzene	*95.7*			*67.0-138*		*10/12/2019 11:21*	WG1361768
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*10/12/2019 11:21*	WG1361768

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.4		1	10/10/2019 14:41	WG1360399

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0342	J	0.0194	0.0355	1.2	10/12/2019 11:42	WG1361768
Acrylonitrile	U		0.00270	0.0178	1.2	10/12/2019 11:42	WG1361768
Benzene	U		0.000569	0.00142	1.2	10/12/2019 11:42	WG1361768
Bromobenzene	U		0.00149	0.0178	1.2	10/12/2019 11:42	WG1361768
Bromodichloromethane	U		0.00112	0.00355	1.2	10/12/2019 11:42	WG1361768
Bromochloromethane	U		0.00161	0.00711	1.2	10/12/2019 11:42	WG1361768
Bromoform	U		0.00850	0.0355	1.2	10/12/2019 11:42	WG1361768
Bromomethane	U		0.00526	0.0178	1.2	10/12/2019 11:42	WG1361768
n-Butylbenzene	U		0.00546	0.0178	1.2	10/12/2019 11:42	WG1361768
sec-Butylbenzene	U		0.00360	0.0178	1.2	10/12/2019 11:42	WG1361768
tert-Butylbenzene	U		0.00220	0.00711	1.2	10/12/2019 11:42	WG1361768
Carbon disulfide	0.00643	J	0.00577	0.0178	1.2	10/12/2019 11:42	WG1361768
Carbon tetrachloride	U		0.00154	0.00711	1.2	10/12/2019 11:42	WG1361768
Chlorobenzene	U		0.000815	0.00355	1.2	10/12/2019 11:42	WG1361768
Chlorodibromomethane	U		0.000640	0.00355	1.2	10/12/2019 11:42	WG1361768
Chloroethane	U		0.00154	0.00711	1.2	10/12/2019 11:42	WG1361768
Chloroform	U		0.000590	0.00355	1.2	10/12/2019 11:42	WG1361768
Chloromethane	U		0.00198	0.0178	1.2	10/12/2019 11:42	WG1361768
2-Chlorotoluene	U		0.00130	0.00355	1.2	10/12/2019 11:42	WG1361768
4-Chlorotoluene	U		0.00161	0.00711	1.2	10/12/2019 11:42	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00725	0.0355	1.2	10/12/2019 11:42	WG1361768
1,2-Dibromoethane	U		0.000746	0.00355	1.2	10/12/2019 11:42	WG1361768
Dibromomethane	U		0.00142	0.00711	1.2	10/12/2019 11:42	WG1361768
1,2-Dichlorobenzene	U		0.00206	0.00711	1.2	10/12/2019 11:42	WG1361768
1,3-Dichlorobenzene	U		0.00242	0.00711	1.2	10/12/2019 11:42	WG1361768
1,4-Dichlorobenzene	U		0.00280	0.00711	1.2	10/12/2019 11:42	WG1361768
Dichlorodifluoromethane	U		0.00116	0.00355	1.2	10/12/2019 11:42	WG1361768
1,1-Dichloroethane	U		0.000817	0.00355	1.2	10/12/2019 11:42	WG1361768
1,2-Dichloroethane	U		0.000675	0.00355	1.2	10/12/2019 11:42	WG1361768
1,1-Dichloroethene	U		0.000711	0.00355	1.2	10/12/2019 11:42	WG1361768
cis-1,2-Dichloroethene	U		0.000981	0.00355	1.2	10/12/2019 11:42	WG1361768
trans-1,2-Dichloroethene	U		0.00204	0.00711	1.2	10/12/2019 11:42	WG1361768
1,2-Dichloropropane	U		0.00180	0.00711	1.2	10/12/2019 11:42	WG1361768
1,1-Dichloropropene	U		0.000995	0.00355	1.2	10/12/2019 11:42	WG1361768
1,3-Dichloropropane	U		0.00249	0.00711	1.2	10/12/2019 11:42	WG1361768
cis-1,3-Dichloropropene	U		0.000964	0.00355	1.2	10/12/2019 11:42	WG1361768
trans-1,3-Dichloropropene	U		0.00218	0.00711	1.2	10/12/2019 11:42	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00199	0.00711	1.2	10/12/2019 11:42	WG1361768
2,2-Dichloropropane	U		0.00113	0.00355	1.2	10/12/2019 11:42	WG1361768
Di-isopropyl ether	U		0.000497	0.00142	1.2	10/12/2019 11:42	WG1361768
Ethylbenzene	0.00117	J	0.000753	0.00355	1.2	10/12/2019 11:42	WG1361768
Hexachloro-1,3-butadiene	U		0.0180	0.0355	1.2	10/12/2019 11:42	WG1361768
2-Hexanone	U		0.0142	0.0355	1.2	10/12/2019 11:42	WG1361768
n-Hexane	U UJ	J0	0.00150	0.00711	1.2	10/12/2019 11:42	WG1361768
Iodomethane	U		0.00860	0.0178	1.2	10/12/2019 11:42	WG1361768
Isopropylbenzene	U		0.00123	0.00355	1.2	10/12/2019 11:42	WG1361768
p-Isopropyltoluene	U		0.00332	0.00711	1.2	10/12/2019 11:42	WG1361768
2-Butanone (MEK)	U		0.0178	0.0355	1.2	10/12/2019 11:42	WG1361768
Methylene Chloride	U		0.00944	0.0355	1.2	10/12/2019 11:42	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0142	0.0355	1.2	10/12/2019 11:42	WG1361768

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000419	0.00142	1.2	10/12/2019 11:42	WG1361768
Naphthalene	U		0.00443	0.0178	1.2	10/12/2019 11:42	WG1361768
n-Propylbenzene	U		0.00168	0.00711	1.2	10/12/2019 11:42	WG1361768
Styrene	U		0.00389	0.0178	1.2	10/12/2019 11:42	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000711	0.00355	1.2	10/12/2019 11:42	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000554	0.00355	1.2	10/12/2019 11:42	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000959	0.00355	1.2	10/12/2019 11:42	WG1361768
Tetrachloroethene	U		0.000995	0.00355	1.2	10/12/2019 11:42	WG1361768
Toluene	0.0216		0.00178	0.00711	1.2	10/12/2019 11:42	WG1361768
1,2,3-Trichlorobenzene	U		0.000888	0.00355	1.2	10/12/2019 11:42	WG1361768
1,2,4-Trichlorobenzene	U		0.00685	0.0178	1.2	10/12/2019 11:42	WG1361768
1,1,1-Trichloroethane	U		0.000391	0.00355	1.2	10/12/2019 11:42	WG1361768
1,1,2-Trichloroethane	U		0.00126	0.00355	1.2	10/12/2019 11:42	WG1361768
Trichloroethene	U		0.000569	0.00142	1.2	10/12/2019 11:42	WG1361768
Trichlorofluoromethane	U		0.000711	0.00355	1.2	10/12/2019 11:42	WG1361768
1,2,3-Trichloropropane	U		0.00725	0.0178	1.2	10/12/2019 11:42	WG1361768
1,2,4-Trimethylbenzene	0.00188	J	0.00165	0.00711	1.2	10/12/2019 11:42	WG1361768
1,2,3-Trimethylbenzene	U		0.00163	0.00711	1.2	10/12/2019 11:42	WG1361768
1,3,5-Trimethylbenzene	0.00156	J	0.00154	0.00711	1.2	10/12/2019 11:42	WG1361768
Vinyl acetate	U UJ	J0	0.00500	0.0178	1.2	10/12/2019 11:42	WG1361768
Vinyl chloride	U		0.000971	0.00355	1.2	10/12/2019 11:42	WG1361768
Xylenes, Total	U		0.00680	0.00924	1.2	10/12/2019 11:42	WG1361768
(S) Toluene-d8	*112*			*75.0-131*		*10/12/2019 11:42*	WG1361768
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*10/12/2019 11:42*	WG1361768
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/12/2019 11:42*	WG1361768

JC 11/1/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.4		1	10/10/2019 14:41	WG1360399

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0529		0.0160	0.0293	1	10/12/2019 12:02	WG1361768
Acrylonitrile	U		0.00223	0.0146	1	10/12/2019 12:02	WG1361768
Benzene	U		0.000468	0.00117	1	10/12/2019 12:02	WG1361768
Bromobenzene	U		0.00123	0.0146	1	10/12/2019 12:02	WG1361768
Bromodichloromethane	U		0.000923	0.00293	1	10/12/2019 12:02	WG1361768
Bromochloromethane	U		0.00132	0.00586	1	10/12/2019 12:02	WG1361768
Bromoform	U		0.00700	0.0293	1	10/12/2019 12:02	WG1361768
Bromomethane	U		0.00433	0.0146	1	10/12/2019 12:02	WG1361768
n-Butylbenzene	U		0.00450	0.0146	1	10/12/2019 12:02	WG1361768
sec-Butylbenzene	U		0.00296	0.0146	1	10/12/2019 12:02	WG1361768
tert-Butylbenzene	U		0.00182	0.00586	1	10/12/2019 12:02	WG1361768
Carbon disulfide	U		0.00475	0.0146	1	10/12/2019 12:02	WG1361768
Carbon tetrachloride	U		0.00126	0.00586	1	10/12/2019 12:02	WG1361768
Chlorobenzene	U		0.000671	0.00293	1	10/12/2019 12:02	WG1361768
Chlorodibromomethane	U		0.000527	0.00293	1	10/12/2019 12:02	WG1361768
Chloroethane	U		0.00126	0.00586	1	10/12/2019 12:02	WG1361768
Chloroform	U		0.000486	0.00293	1	10/12/2019 12:02	WG1361768
Chloromethane	U		0.00163	0.0146	1	10/12/2019 12:02	WG1361768
2-Chlorotoluene	U		0.00108	0.00293	1	10/12/2019 12:02	WG1361768
4-Chlorotoluene	U		0.00132	0.00586	1	10/12/2019 12:02	WG1361768
1,2-Dibromo-3-Chloropropane	U		0.00597	0.0293	1	10/12/2019 12:02	WG1361768
1,2-Dibromoethane	U		0.000615	0.00293	1	10/12/2019 12:02	WG1361768
Dibromomethane	U		0.00117	0.00586	1	10/12/2019 12:02	WG1361768
1,2-Dichlorobenzene	U		0.00170	0.00586	1	10/12/2019 12:02	WG1361768
1,3-Dichlorobenzene	U		0.00199	0.00586	1	10/12/2019 12:02	WG1361768
1,4-Dichlorobenzene	U		0.00231	0.00586	1	10/12/2019 12:02	WG1361768
Dichlorodifluoromethane	U		0.000958	0.00293	1	10/12/2019 12:02	WG1361768
1,1-Dichloroethane	U		0.000673	0.00293	1	10/12/2019 12:02	WG1361768
1,2-Dichloroethane	U		0.000556	0.00293	1	10/12/2019 12:02	WG1361768
1,1-Dichloroethene	U		0.000586	0.00293	1	10/12/2019 12:02	WG1361768
cis-1,2-Dichloroethene	U		0.000808	0.00293	1	10/12/2019 12:02	WG1361768
trans-1,2-Dichloroethene	U		0.00167	0.00586	1	10/12/2019 12:02	WG1361768
1,2-Dichloropropane	U		0.00149	0.00586	1	10/12/2019 12:02	WG1361768
1,1-Dichloropropene	U		0.000820	0.00293	1	10/12/2019 12:02	WG1361768
1,3-Dichloropropane	U		0.00205	0.00586	1	10/12/2019 12:02	WG1361768
cis-1,3-Dichloropropene	U		0.000794	0.00293	1	10/12/2019 12:02	WG1361768
trans-1,3-Dichloropropene	U		0.00179	0.00586	1	10/12/2019 12:02	WG1361768
trans-1,4-Dichloro-2-butene	U		0.00164	0.00586	1	10/12/2019 12:02	WG1361768
2,2-Dichloropropane	U		0.000929	0.00293	1	10/12/2019 12:02	WG1361768
Di-isopropyl ether	U		0.000410	0.00117	1	10/12/2019 12:02	WG1361768
Ethylbenzene	U		0.000621	0.00293	1	10/12/2019 12:02	WG1361768
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1	10/12/2019 12:02	WG1361768
2-Hexanone	U		0.0117	0.0293	1	10/12/2019 12:02	WG1361768
n-Hexane	U	UJ J0	0.00124	0.00586	1	10/12/2019 12:02	WG1361768
Iodomethane	U		0.00709	0.0146	1	10/12/2019 12:02	WG1361768
Isopropylbenzene	U		0.00101	0.00293	1	10/12/2019 12:02	WG1361768
p-Isopropyltoluene	U		0.00273	0.00586	1	10/12/2019 12:02	WG1361768
2-Butanone (MEK)	U		0.0146	0.0293	1	10/12/2019 12:02	WG1361768
Methylene Chloride	U		0.00778	0.0293	1	10/12/2019 12:02	WG1361768
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1	10/12/2019 12:02	WG1361768

JC 11/1/19

MW-302-65
Collected date/time: 10/01/19 12:10

SAMPLE RESULTS - 13

L1146028

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	10/12/2019 12:02	WG1361768
Naphthalene	U		0.00365	0.0146	1	10/12/2019 12:02	WG1361768
n-Propylbenzene	U		0.00138	0.00586	1	10/12/2019 12:02	WG1361768
Styrene	U		0.00320	0.0146	1	10/12/2019 12:02	WG1361768
1,1,1,2-Tetrachloroethane	U		0.000586	0.00293	1	10/12/2019 12:02	WG1361768
1,1,2,2-Tetrachloroethane	U		0.000457	0.00293	1	10/12/2019 12:02	WG1361768
1,1,2-Trichlorotrifluoroethane	U		0.000791	0.00293	1	10/12/2019 12:02	WG1361768
Tetrachloroethene	U		0.000820	0.00293	1	10/12/2019 12:02	WG1361768
Toluene	0.00508	J	0.00146	0.00586	1	10/12/2019 12:02	WG1361768
1,2,3-Trichlorobenzene	U		0.000732	0.00293	1	10/12/2019 12:02	WG1361768
1,2,4-Trichlorobenzene	U		0.00564	0.0146	1	10/12/2019 12:02	WG1361768
1,1,1-Trichloroethane	U		0.000322	0.00293	1	10/12/2019 12:02	WG1361768
1,1,2-Trichloroethane	U		0.00103	0.00293	1	10/12/2019 12:02	WG1361768
Trichloroethene	U		0.000468	0.00117	1	10/12/2019 12:02	WG1361768
Trichlorofluoromethane	U		0.000586	0.00293	1	10/12/2019 12:02	WG1361768
1,2,3-Trichloropropane	U		0.00597	0.0146	1	10/12/2019 12:02	WG1361768
1,2,4-Trimethylbenzene	U		0.00136	0.00586	1	10/12/2019 12:02	WG1361768
1,2,3-Trimethylbenzene	U		0.00135	0.00586	1	10/12/2019 12:02	WG1361768
1,3,5-Trimethylbenzene	U		0.00126	0.00586	1	10/12/2019 12:02	WG1361768
Vinyl acetate	U UJ	J0	0.00412	0.0146	1	10/12/2019 12:02	WG1361768
Vinyl chloride	U		0.000800	0.00293	1	10/12/2019 12:02	WG1361768
Xylenes, Total	U		0.00560	0.00761	1	10/12/2019 12:02	WG1361768
(S) Toluene-d8	*107*			*75.0-131*		*10/12/2019 12:02*	WG1361768
(S) 4-Bromofluorobenzene	*99.7*			*67.0-138*		*10/12/2019 12:02*	WG1361768
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*10/12/2019 12:02*	WG1361768

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.5		1	10/10/2019 14:41	WG1360399

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0515		0.0166	0.0303	1	10/12/2019 17:48	WG1361775
Acrylonitrile	U		0.00230	0.0152	1	10/12/2019 17:48	WG1361775
Benzene	U		0.000485	0.00121	1	10/12/2019 17:48	WG1361775
Bromobenzene	U		0.00127	0.0152	1	10/12/2019 17:48	WG1361775
Bromodichloromethane	U		0.000955	0.00303	1	10/12/2019 17:48	WG1361775
Bromochloromethane	U		0.00137	0.00606	1	10/12/2019 17:48	WG1361775
Bromoform	U		0.00725	0.0303	1	10/12/2019 17:48	WG1361775
Bromomethane	U		0.00449	0.0152	1	10/12/2019 17:48	WG1361775
n-Butylbenzene	U		0.00466	0.0152	1	10/12/2019 17:48	WG1361775
sec-Butylbenzene	U		0.00307	0.0152	1	10/12/2019 17:48	WG1361775
tert-Butylbenzene	U		0.00188	0.00606	1	10/12/2019 17:48	WG1361775
Carbon disulfide	U		0.00492	0.0152	1	10/12/2019 17:48	WG1361775
Carbon tetrachloride	U		0.00131	0.00606	1	10/12/2019 17:48	WG1361775
Chlorobenzene	U		0.000695	0.00303	1	10/12/2019 17:48	WG1361775
Chlorodibromomethane	U		0.000546	0.00303	1	10/12/2019 17:48	WG1361775
Chloroethane	U		0.00131	0.00606	1	10/12/2019 17:48	WG1361775
Chloroform	U		0.000503	0.00303	1	10/12/2019 17:48	WG1361775
Chloromethane	U		0.00169	0.0152	1	10/12/2019 17:48	WG1361775
2-Chlorotoluene	U		0.00112	0.00303	1	10/12/2019 17:48	WG1361775
4-Chlorotoluene	U		0.00137	0.00606	1	10/12/2019 17:48	WG1361775
1,2-Dibromo-3-Chloropropane	U		0.00618	0.0303	1	10/12/2019 17:48	WG1361775
1,2-Dibromoethane	U		0.000636	0.00303	1	10/12/2019 17:48	WG1361775
Dibromomethane	U		0.00121	0.00606	1	10/12/2019 17:48	WG1361775
1,2-Dichlorobenzene	U		0.00176	0.00606	1	10/12/2019 17:48	WG1361775
1,3-Dichlorobenzene	U		0.00206	0.00606	1	10/12/2019 17:48	WG1361775
1,4-Dichlorobenzene	U		0.00239	0.00606	1	10/12/2019 17:48	WG1361775
Dichlorodifluoromethane	U		0.000992	0.00303	1	10/12/2019 17:48	WG1361775
1,1-Dichloroethane	U		0.000697	0.00303	1	10/12/2019 17:48	WG1361775
1,2-Dichloroethane	U		0.000576	0.00303	1	10/12/2019 17:48	WG1361775
1,1-Dichloroethene	U		0.000606	0.00303	1	10/12/2019 17:48	WG1361775
cis-1,2-Dichloroethene	U		0.000836	0.00303	1	10/12/2019 17:48	WG1361775
trans-1,2-Dichloroethene	U		0.00173	0.00606	1	10/12/2019 17:48	WG1361775
1,2-Dichloropropane	U		0.00154	0.00606	1	10/12/2019 17:48	WG1361775
1,1-Dichloropropene	U		0.000849	0.00303	1	10/12/2019 17:48	WG1361775
1,3-Dichloropropane	U		0.00212	0.00606	1	10/12/2019 17:48	WG1361775
cis-1,3-Dichloropropene	U		0.000822	0.00303	1	10/12/2019 17:48	WG1361775
trans-1,3-Dichloropropene	U		0.00185	0.00606	1	10/12/2019 17:48	WG1361775
trans-1,4-Dichloro-2-butene	U		0.00170	0.00606	1	10/12/2019 17:48	WG1361775
2,2-Dichloropropane	U		0.000961	0.00303	1	10/12/2019 17:48	WG1361775
Di-isopropyl ether	U		0.000424	0.00121	1	10/12/2019 17:48	WG1361775
Ethylbenzene	U		0.000643	0.00303	1	10/12/2019 17:48	WG1361775
Hexachloro-1,3-butadiene	U		0.0154	0.0303	1	10/12/2019 17:48	WG1361775
2-Hexanone	U		0.0121	0.0303	1	10/12/2019 17:48	WG1361775
n-Hexane	U		0.00129	0.00606	1	10/12/2019 17:48	WG1361775
Iodomethane	U		0.00733	0.0152	1	10/12/2019 17:48	WG1361775
Isopropylbenzene	U		0.00105	0.00303	1	10/12/2019 17:48	WG1361775
p-Isopropyltoluene	U		0.00282	0.00606	1	10/12/2019 17:48	WG1361775
2-Butanone (MEK)	0.0252	J	0.0152	0.0303	1	10/12/2019 17:48	WG1361775
Methylene Chloride	U		0.00805	0.0303	1	10/12/2019 17:48	WG1361775
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0303	1	10/12/2019 17:48	WG1361775

JC 11/1/19

MW-2014-65

Collected date/time: 10/01/19 12:20

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U			0.000358	0.00121	1	10/12/2019 17:48	WG1361775
Naphthalene	U			0.00378	0.0152	1	10/12/2019 17:48	WG1361775
n-Propylbenzene	U			0.00143	0.00606	1	10/12/2019 17:48	WG1361775
Styrene	U			0.00331	0.0152	1	10/12/2019 17:48	WG1361775
1,1,1,2-Tetrachloroethane	U			0.000606	0.00303	1	10/12/2019 17:48	WG1361775
1,1,2,2-Tetrachloroethane	U			0.000473	0.00303	1	10/12/2019 17:48	WG1361775
1,1,2-Trichlorotrifluoroethane	U			0.000818	0.00303	1	10/12/2019 17:48	WG1361775
Tetrachloroethene	U			0.000849	0.00303	1	10/12/2019 17:48	WG1361775
Toluene	0.0138			0.00152	0.00606	1	10/12/2019 17:48	WG1361775
1,2,3-Trichlorobenzene	U			0.000758	0.00303	1	10/12/2019 17:48	WG1361775
1,2,4-Trichlorobenzene	U		J4	0.00584	0.0152	1	10/12/2019 17:48	WG1361775
1,1,1-Trichloroethane	U			0.000333	0.00303	1	10/12/2019 17:48	WG1361775
1,1,2-Trichloroethane	U			0.00107	0.00303	1	10/12/2019 17:48	WG1361775
Trichloroethene	U			0.000485	0.00121	1	10/12/2019 17:48	WG1361775
Trichlorofluoromethane	U			0.000606	0.00303	1	10/12/2019 17:48	WG1361775
1,2,3-Trichloropropane	U			0.00618	0.0152	1	10/12/2019 17:48	WG1361775
1,2,4-Trimethylbenzene	U			0.00141	0.00606	1	10/12/2019 17:48	WG1361775
1,2,3-Trimethylbenzene	U			0.00139	0.00606	1	10/12/2019 17:48	WG1361775
1,3,5-Trimethylbenzene	U			0.00131	0.00606	1	10/12/2019 17:48	WG1361775
Vinyl acetate	U	UJ	J0	0.00427	0.0152	1	10/12/2019 17:48	WG1361775
Vinyl chloride	U		J4	0.000828	0.00303	1	10/12/2019 17:48	WG1361775
Xylenes, Total	U			0.00579	0.00788	1	10/12/2019 17:48	WG1361775
(S) Toluene-d8	*107*				*75.0-131*		*10/12/2019 17:48*	WG1361775
(S) 4-Bromofluorobenzene	*102*				*67.0-138*		*10/12/2019 17:48*	WG1361775
(S) 1,2-Dichloroethane-d4	*114*				*70.0-130*		*10/12/2019 17:48*	WG1361775

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-307-6

Collected date/time: 10/03/19 09:35

SAMPLE RESULTS - 01

L1147037

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	10/12/2019 17:05	WG1361909

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0153	0.0279	1	10/12/2019 13:15	WG1361818
Acrylonitrile	U		0.00212	0.0140	1	10/12/2019 13:15	WG1361818
Benzene	U		0.000447	0.00112	1	10/12/2019 13:15	WG1361818
Bromobenzene	U		0.00117	0.0140	1	10/12/2019 13:15	WG1361818
Bromodichloromethane	U		0.000881	0.00279	1	10/12/2019 13:15	WG1361818
Bromochloromethane	U		0.00126	0.00559	1	10/12/2019 13:15	WG1361818
Bromoform	U		0.00669	0.0279	1	10/12/2019 13:15	WG1361818
Bromomethane	U		0.00414	0.0140	1	10/12/2019 13:15	WG1361818
n-Butylbenzene	U		0.00429	0.0140	1	10/12/2019 13:15	WG1361818
sec-Butylbenzene	U		0.00283	0.0140	1	10/12/2019 13:15	WG1361818
tert-Butylbenzene	U		0.00173	0.00559	1	10/12/2019 13:15	WG1361818
Carbon disulfide	U		0.00454	0.0140	1	10/12/2019 13:15	WG1361818
Carbon tetrachloride	U		0.00121	0.00559	1	10/12/2019 13:15	WG1361818
Chlorobenzene	U		0.000641	0.00279	1	10/12/2019 13:15	WG1361818
Chlorodibromomethane	U		0.000503	0.00279	1	10/12/2019 13:15	WG1361818
Chloroethane	U		0.00121	0.00559	1	10/12/2019 13:15	WG1361818
Chloroform	U		0.000464	0.00279	1	10/12/2019 13:15	WG1361818
Chloromethane	U		0.00155	0.0140	1	10/12/2019 13:15	WG1361818
2-Chlorotoluene	U		0.00103	0.00279	1	10/12/2019 13:15	WG1361818
4-Chlorotoluene	U		0.00126	0.00559	1	10/12/2019 13:15	WG1361818
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0279	1	10/12/2019 13:15	WG1361818
1,2-Dibromoethane	U		0.000587	0.00279	1	10/12/2019 13:15	WG1361818
Dibromomethane	U		0.00112	0.00559	1	10/12/2019 13:15	WG1361818
1,2-Dichlorobenzene	U		0.00162	0.00559	1	10/12/2019 13:15	WG1361818
1,3-Dichlorobenzene	U		0.00190	0.00559	1	10/12/2019 13:15	WG1361818
1,4-Dichlorobenzene	U		0.00220	0.00559	1	10/12/2019 13:15	WG1361818
Dichlorodifluoromethane	U		0.000914	0.00279	1	10/12/2019 13:15	WG1361818
1,1-Dichloroethane	U		0.000643	0.00279	1	10/12/2019 13:15	WG1361818
1,2-Dichloroethane	U		0.000531	0.00279	1	10/12/2019 13:15	WG1361818
1,1-Dichloroethene	U		0.000559	0.00279	1	10/12/2019 13:15	WG1361818
cis-1,2-Dichloroethene	U		0.000771	0.00279	1	10/12/2019 13:15	WG1361818
trans-1,2-Dichloroethene	U		0.00160	0.00559	1	10/12/2019 13:15	WG1361818
1,2-Dichloropropane	U		0.00142	0.00559	1	10/12/2019 13:15	WG1361818
1,1-Dichloropropene	U		0.000783	0.00279	1	10/12/2019 13:15	WG1361818
1,3-Dichloropropane	U		0.00196	0.00559	1	10/12/2019 13:15	WG1361818
cis-1,3-Dichloropropene	U		0.000758	0.00279	1	10/12/2019 13:15	WG1361818
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	10/12/2019 13:15	WG1361818
trans-1,4-Dichloro-2-butene	U		0.00157	0.00559	1	10/12/2019 13:15	WG1361818
2,2-Dichloropropane	U		0.000887	0.00279	1	10/12/2019 13:15	WG1361818
Di-isopropyl ether	U		0.000391	0.00112	1	10/12/2019 13:15	WG1361818
Ethylbenzene	0.000603	J	0.000593	0.00279	1	10/12/2019 13:15	WG1361818
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/12/2019 13:15	WG1361818
2-Hexanone	U		0.0112	0.0279	1	10/12/2019 13:15	WG1361818
n-Hexane	U		0.00119	0.00559	1	10/12/2019 13:15	WG1361818
Iodomethane	U		0.00676	0.0140	1	10/12/2019 13:15	WG1361818
Isopropylbenzene	U		0.000965	0.00279	1	10/12/2019 13:15	WG1361818
p-Isopropyltoluene	U		0.00260	0.00559	1	10/12/2019 13:15	WG1361818
2-Butanone (MEK)	0.0171 U	~~B J~~	0.0140	0.0279	1	10/12/2019 13:15	WG1361818
Methylene Chloride	U		0.00742	0.0279	1	10/12/2019 13:15	WG1361818
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	10/12/2019 13:15	WG1361818

JC 11/1/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	10/12/2019 13:15	WG1361818
Naphthalene	U		0.00349	0.0140	1	10/12/2019 13:15	WG1361818
n-Propylbenzene	U		0.00132	0.00559	1	10/12/2019 13:15	WG1361818
Styrene	U		0.00305	0.0140	1	10/12/2019 13:15	WG1361818
1,1,1,2-Tetrachloroethane	U		0.000559	0.00279	1	10/12/2019 13:15	WG1361818
1,1,2,2-Tetrachloroethane	U		0.000436	0.00279	1	10/12/2019 13:15	WG1361818
1,1,2-Trichlorotrifluoroethane	U		0.000755	0.00279	1	10/12/2019 13:15	WG1361818
Tetrachloroethene	U		0.000783	0.00279	1	10/12/2019 13:15	WG1361818
Toluene	0.0131		0.00140	0.00559	1	10/12/2019 13:15	WG1361818
1,2,3-Trichlorobenzene	U		0.000699	0.00279	1	10/12/2019 13:15	WG1361818
1,2,4-Trichlorobenzene	U		0.00539	0.0140	1	10/12/2019 13:15	WG1361818
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/12/2019 13:15	WG1361818
1,1,2-Trichloroethane	U		0.000987	0.00279	1	10/12/2019 13:15	WG1361818
Trichloroethene	U		0.000447	0.00112	1	10/12/2019 13:15	WG1361818
Trichlorofluoromethane	U		0.000559	0.00279	1	10/12/2019 13:15	WG1361818
1,2,3-Trichloropropane	U		0.00570	0.0140	1	10/12/2019 13:15	WG1361818
1,2,4-Trimethylbenzene	U		0.00130	0.00559	1	10/12/2019 13:15	WG1361818
1,2,3-Trimethylbenzene	U		0.00129	0.00559	1	10/12/2019 13:15	WG1361818
1,3,5-Trimethylbenzene	U		0.00121	0.00559	1	10/12/2019 13:15	WG1361818
Vinyl acetate	U		0.00394	0.0140	1	10/12/2019 13:15	WG1361818
Vinyl chloride	U		0.000764	0.00279	1	10/12/2019 13:15	WG1361818
Xylenes, Total	U		0.00534	0.00727	1	10/12/2019 13:15	WG1361818
(S) Toluene-d8	*105*			*75.0-131*		*10/12/2019 13:15*	WG1361818
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*10/12/2019 13:15*	WG1361818
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*10/12/2019 13:15*	WG1361818

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 11/1/19

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.1		1	10/12/2019 17:05	WG1361909

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0253 U	J	0.0157	0.0288	1.06	10/12/2019 13:35	WG1361818
Acrylonitrile	U		0.00218	0.0144	1.06	10/12/2019 13:35	WG1361818
Benzene	0.000462	J	0.000460	0.00115	1.06	10/12/2019 13:35	WG1361818
Bromobenzene	U		0.00121	0.0144	1.06	10/12/2019 13:35	WG1361818
Bromodichloromethane	U		0.000907	0.00288	1.06	10/12/2019 13:35	WG1361818
Bromochloromethane	U		0.00130	0.00576	1.06	10/12/2019 13:35	WG1361818
Bromoform	U		0.00689	0.0288	1.06	10/12/2019 13:35	WG1361818
Bromomethane	U		0.00426	0.0144	1.06	10/12/2019 13:35	WG1361818
n-Butylbenzene	U		0.00442	0.0144	1.06	10/12/2019 13:35	WG1361818
sec-Butylbenzene	U		0.00291	0.0144	1.06	10/12/2019 13:35	WG1361818
tert-Butylbenzene	U		0.00178	0.00576	1.06	10/12/2019 13:35	WG1361818
Carbon disulfide	U		0.00467	0.0144	1.06	10/12/2019 13:35	WG1361818
Carbon tetrachloride	U		0.00124	0.00576	1.06	10/12/2019 13:35	WG1361818
Chlorobenzene	U		0.000659	0.00288	1.06	10/12/2019 13:35	WG1361818
Chlorodibromomethane	U		0.000518	0.00288	1.06	10/12/2019 13:35	WG1361818
Chloroethane	U		0.00124	0.00576	1.06	10/12/2019 13:35	WG1361818
Chloroform	0.000843 U	~~B J~~	0.000478	0.00288	1.06	10/12/2019 13:35	WG1361818
Chloromethane	U		0.00160	0.0144	1.06	10/12/2019 13:35	WG1361818
2-Chlorotoluene	U		0.00106	0.00288	1.06	10/12/2019 13:35	WG1361818
4-Chlorotoluene	U		0.00130	0.00576	1.06	10/12/2019 13:35	WG1361818
1,2-Dibromo-3-Chloropropane	U		0.00588	0.0288	1.06	10/12/2019 13:35	WG1361818
1,2-Dibromoethane	U		0.000604	0.00288	1.06	10/12/2019 13:35	WG1361818
Dibromomethane	U		0.00115	0.00576	1.06	10/12/2019 13:35	WG1361818
1,2-Dichlorobenzene	U		0.00167	0.00576	1.06	10/12/2019 13:35	WG1361818
1,3-Dichlorobenzene	U		0.00195	0.00576	1.06	10/12/2019 13:35	WG1361818
1,4-Dichlorobenzene	U		0.00227	0.00576	1.06	10/12/2019 13:35	WG1361818
Dichlorodifluoromethane	U		0.000942	0.00288	1.06	10/12/2019 13:35	WG1361818
1,1-Dichloroethane	U		0.000661	0.00288	1.06	10/12/2019 13:35	WG1361818
1,2-Dichloroethane	U		0.000547	0.00288	1.06	10/12/2019 13:35	WG1361818
1,1-Dichloroethene	U		0.000576	0.00288	1.06	10/12/2019 13:35	WG1361818
cis-1,2-Dichloroethene	U		0.000794	0.00288	1.06	10/12/2019 13:35	WG1361818
trans-1,2-Dichloroethene	U		0.00165	0.00576	1.06	10/12/2019 13:35	WG1361818
1,2-Dichloropropane	U		0.00147	0.00576	1.06	10/12/2019 13:35	WG1361818
1,1-Dichloropropene	U		0.000806	0.00288	1.06	10/12/2019 13:35	WG1361818
1,3-Dichloropropane	U		0.00202	0.00576	1.06	10/12/2019 13:35	WG1361818
cis-1,3-Dichloropropene	U		0.000781	0.00288	1.06	10/12/2019 13:35	WG1361818
trans-1,3-Dichloropropene	U		0.00176	0.00576	1.06	10/12/2019 13:35	WG1361818
trans-1,4-Dichloro-2-butene	U		0.00161	0.00576	1.06	10/12/2019 13:35	WG1361818
2,2-Dichloropropane	U		0.000913	0.00288	1.06	10/12/2019 13:35	WG1361818
Di-isopropyl ether	U		0.000403	0.00115	1.06	10/12/2019 13:35	WG1361818
Ethylbenzene	0.000971	J	0.000610	0.00288	1.06	10/12/2019 13:35	WG1361818
Hexachloro-1,3-butadiene	U		0.0147	0.0288	1.06	10/12/2019 13:35	WG1361818
2-Hexanone	U		0.0115	0.0288	1.06	10/12/2019 13:35	WG1361818
n-Hexane	U		0.00122	0.00576	1.06	10/12/2019 13:35	WG1361818
Iodomethane	U		0.00696	0.0144	1.06	10/12/2019 13:35	WG1361818
Isopropylbenzene	U		0.000994	0.00288	1.06	10/12/2019 13:35	WG1361818
p-Isopropyltoluene	U		0.00268	0.00576	1.06	10/12/2019 13:35	WG1361818
2-Butanone (MEK)	0.0262 U	~~B J~~	0.0144	0.0288	1.06	10/12/2019 13:35	WG1361818
Methylene Chloride	U		0.00765	0.0288	1.06	10/12/2019 13:35	WG1361818
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0288	1.06	10/12/2019 13:35	WG1361818

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	0.000604	J	0.000340	0.00115	1.06	10/12/2019 13:35	WG1361818
Naphthalene	U		0.00359	0.0144	1.06	10/12/2019 13:35	WG1361818
n-Propylbenzene	U		0.00136	0.00576	1.06	10/12/2019 13:35	WG1361818
Styrene	U		0.00314	0.0144	1.06	10/12/2019 13:35	WG1361818
1,1,1,2-Tetrachloroethane	U		0.000576	0.00288	1.06	10/12/2019 13:35	WG1361818
1,1,2,2-Tetrachloroethane	U		0.000449	0.00288	1.06	10/12/2019 13:35	WG1361818
1,1,2-Trichlorotrifluoroethane	U		0.000778	0.00288	1.06	10/12/2019 13:35	WG1361818
Tetrachloroethene	U		0.000806	0.00288	1.06	10/12/2019 13:35	WG1361818
Toluene	0.0260		0.00144	0.00576	1.06	10/12/2019 13:35	WG1361818
1,2,3-Trichlorobenzene	U		0.000720	0.00288	1.06	10/12/2019 13:35	WG1361818
1,2,4-Trichlorobenzene	U		0.00555	0.0144	1.06	10/12/2019 13:35	WG1361818
1,1,1-Trichloroethane	U		0.000317	0.00288	1.06	10/12/2019 13:35	WG1361818
1,1,2-Trichloroethane	U		0.00102	0.00288	1.06	10/12/2019 13:35	WG1361818
Trichloroethene	U		0.000460	0.00115	1.06	10/12/2019 13:35	WG1361818
Trichlorofluoromethane	U		0.000576	0.00288	1.06	10/12/2019 13:35	WG1361818
1,2,3-Trichloropropane	U		0.00588	0.0144	1.06	10/12/2019 13:35	WG1361818
1,2,4-Trimethylbenzene	U		0.00134	0.00576	1.06	10/12/2019 13:35	WG1361818
1,2,3-Trimethylbenzene	U		0.00132	0.00576	1.06	10/12/2019 13:35	WG1361818
1,3,5-Trimethylbenzene	U		0.00124	0.00576	1.06	10/12/2019 13:35	WG1361818
Vinyl acetate	U		0.00405	0.0144	1.06	10/12/2019 13:35	WG1361818
Vinyl chloride	U		0.000786	0.00288	1.06	10/12/2019 13:35	WG1361818
Xylenes, Total	U		0.00551	0.00748	1.06	10/12/2019 13:35	WG1361818
(S) Toluene-d8	*103*			*75.0-131*		*10/12/2019 13:35*	WG1361818
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/12/2019 13:35*	WG1361818
(S) 1,2-Dichloroethane-d4	*97.5*			*70.0-130*		*10/12/2019 13:35*	WG1361818

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.8		1	10/12/2019 17:05	WG1361909

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0148	0.0269	1	10/12/2019 13:56	WG1361818
Acrylonitrile	U		0.00205	0.0135	1	10/12/2019 13:56	WG1361818
Benzene	U		0.000431	0.00108	1	10/12/2019 13:56	WG1361818
Bromobenzene	U		0.00113	0.0135	1	10/12/2019 13:56	WG1361818
Bromodichloromethane	U		0.000849	0.00269	1	10/12/2019 13:56	WG1361818
Bromochloromethane	U		0.00122	0.00539	1	10/12/2019 13:56	WG1361818
Bromoform	U		0.00644	0.0269	1	10/12/2019 13:56	WG1361818
Bromomethane	U		0.00399	0.0135	1	10/12/2019 13:56	WG1361818
n-Butylbenzene	U		0.00414	0.0135	1	10/12/2019 13:56	WG1361818
sec-Butylbenzene	U		0.00273	0.0135	1	10/12/2019 13:56	WG1361818
tert-Butylbenzene	U		0.00167	0.00539	1	10/12/2019 13:56	WG1361818
Carbon disulfide	U		0.00437	0.0135	1	10/12/2019 13:56	WG1361818
Carbon tetrachloride	U		0.00116	0.00539	1	10/12/2019 13:56	WG1361818
Chlorobenzene	U		0.000617	0.00269	1	10/12/2019 13:56	WG1361818
Chlorodibromomethane	U		0.000485	0.00269	1	10/12/2019 13:56	WG1361818
Chloroethane	U		0.00116	0.00539	1	10/12/2019 13:56	WG1361818
Chloroform	0.000511	U ~~B J~~	0.000447	0.00269	1	10/12/2019 13:56	WG1361818
Chloromethane	U		0.00150	0.0135	1	10/12/2019 13:56	WG1361818
2-Chlorotoluene	U		0.000991	0.00269	1	10/12/2019 13:56	WG1361818
4-Chlorotoluene	U		0.00122	0.00539	1	10/12/2019 13:56	WG1361818
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0269	1	10/12/2019 13:56	WG1361818
1,2-Dibromoethane	U		0.000566	0.00269	1	10/12/2019 13:56	WG1361818
Dibromomethane	U		0.00108	0.00539	1	10/12/2019 13:56	WG1361818
1,2-Dichlorobenzene	U		0.00156	0.00539	1	10/12/2019 13:56	WG1361818
1,3-Dichlorobenzene	U		0.00183	0.00539	1	10/12/2019 13:56	WG1361818
1,4-Dichlorobenzene	U		0.00212	0.00539	1	10/12/2019 13:56	WG1361818
Dichlorodifluoromethane	U		0.000881	0.00269	1	10/12/2019 13:56	WG1361818
1,1-Dichloroethane	U		0.000620	0.00269	1	10/12/2019 13:56	WG1361818
1,2-Dichloroethane	U		0.000512	0.00269	1	10/12/2019 13:56	WG1361818
1,1-Dichloroethene	U		0.000539	0.00269	1	10/12/2019 13:56	WG1361818
cis-1,2-Dichloroethene	U		0.000743	0.00269	1	10/12/2019 13:56	WG1361818
trans-1,2-Dichloroethene	U		0.00154	0.00539	1	10/12/2019 13:56	WG1361818
1,2-Dichloropropane	U		0.00137	0.00539	1	10/12/2019 13:56	WG1361818
1,1-Dichloropropene	U		0.000754	0.00269	1	10/12/2019 13:56	WG1361818
1,3-Dichloropropane	U		0.00189	0.00539	1	10/12/2019 13:56	WG1361818
cis-1,3-Dichloropropene	U		0.000731	0.00269	1	10/12/2019 13:56	WG1361818
trans-1,3-Dichloropropene	U		0.00165	0.00539	1	10/12/2019 13:56	WG1361818
trans-1,4-Dichloro-2-butene	U		0.00151	0.00539	1	10/12/2019 13:56	WG1361818
2,2-Dichloropropane	U		0.000854	0.00269	1	10/12/2019 13:56	WG1361818
Di-isopropyl ether	U		0.000377	0.00108	1	10/12/2019 13:56	WG1361818
Ethylbenzene	U		0.000571	0.00269	1	10/12/2019 13:56	WG1361818
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	10/12/2019 13:56	WG1361818
2-Hexanone	U		0.0108	0.0269	1	10/12/2019 13:56	WG1361818
n-Hexane	0.0147		0.00114	0.00539	1	10/12/2019 13:56	WG1361818
Iodomethane	U		0.00652	0.0135	1	10/12/2019 13:56	WG1361818
Isopropylbenzene	U		0.000930	0.00269	1	10/12/2019 13:56	WG1361818
p-Isopropyltoluene	U		0.00251	0.00539	1	10/12/2019 13:56	WG1361818
2-Butanone (MEK)	U		0.0135	0.0269	1	10/12/2019 13:56	WG1361818
Methylene Chloride	U		0.00715	0.0269	1	10/12/2019 13:56	WG1361818
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	10/12/2019 13:56	WG1361818

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	U		0.000318	0.00108	1	10/12/2019 13:56	WG1361818
Naphthalene	U		0.00336	0.0135	1	10/12/2019 13:56	WG1361818
n-Propylbenzene	U		0.00127	0.00539	1	10/12/2019 13:56	WG1361818
Styrene	U		0.00294	0.0135	1	10/12/2019 13:56	WG1361818
1,1,1,2-Tetrachloroethane	U		0.000539	0.00269	1	10/12/2019 13:56	WG1361818
1,1,2,2-Tetrachloroethane	U		0.000420	0.00269	1	10/12/2019 13:56	WG1361818
1,1,2-Trichlorotrifluoroethane	U		0.000727	0.00269	1	10/12/2019 13:56	WG1361818
Tetrachloroethene	U		0.000754	0.00269	1	10/12/2019 13:56	WG1361818
Toluene	0.00403	J	0.00135	0.00539	1	10/12/2019 13:56	WG1361818
1,2,3-Trichlorobenzene	U		0.000673	0.00269	1	10/12/2019 13:56	WG1361818
1,2,4-Trichlorobenzene	U		0.00519	0.0135	1	10/12/2019 13:56	WG1361818
1,1,1-Trichloroethane	U		0.000296	0.00269	1	10/12/2019 13:56	WG1361818
1,1,2-Trichloroethane	U		0.000951	0.00269	1	10/12/2019 13:56	WG1361818
Trichloroethene	U		0.000431	0.00108	1	10/12/2019 13:56	WG1361818
Trichlorofluoromethane	U		0.000539	0.00269	1	10/12/2019 13:56	WG1361818
1,2,3-Trichloropropane	U		0.00549	0.0135	1	10/12/2019 13:56	WG1361818
1,2,4-Trimethylbenzene	U		0.00125	0.00539	1	10/12/2019 13:56	WG1361818
1,2,3-Trimethylbenzene	U		0.00124	0.00539	1	10/12/2019 13:56	WG1361818
1,3,5-Trimethylbenzene	U		0.00116	0.00539	1	10/12/2019 13:56	WG1361818
Vinyl acetate	U		0.00379	0.0135	1	10/12/2019 13:56	WG1361818
Vinyl chloride	U		0.000736	0.00269	1	10/12/2019 13:56	WG1361818
Xylenes, Total	U		0.00515	0.00700	1	10/12/2019 13:56	WG1361818
(S) Toluene-d8	*103*			*75.0-131*		*10/12/2019 13:56*	WG1361818
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*10/12/2019 13:56*	WG1361818
(S) 1,2-Dichloroethane-d4	*97.5*			*70.0-130*		*10/12/2019 13:56*	WG1361818

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.5		1	10/12/2019 16:51	WG1361912

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0146	0.0267	1	10/12/2019 14:17	WG1361818
Acrylonitrile	U		0.00203	0.0134	1	10/12/2019 14:17	WG1361818
Benzene	U		0.000428	0.00107	1	10/12/2019 14:17	WG1361818
Bromobenzene	U		0.00112	0.0134	1	10/12/2019 14:17	WG1361818
Bromodichloromethane	U		0.000843	0.00267	1	10/12/2019 14:17	WG1361818
Bromochloromethane	U		0.00121	0.00535	1	10/12/2019 14:17	WG1361818
Bromoform	U		0.00639	0.0267	1	10/12/2019 14:17	WG1361818
Bromomethane	U		0.00396	0.0134	1	10/12/2019 14:17	WG1361818
n-Butylbenzene	U		0.00411	0.0134	1	10/12/2019 14:17	WG1361818
sec-Butylbenzene	U		0.00271	0.0134	1	10/12/2019 14:17	WG1361818
tert-Butylbenzene	U		0.00166	0.00535	1	10/12/2019 14:17	WG1361818
Carbon disulfide	U		0.00434	0.0134	1	10/12/2019 14:17	WG1361818
Carbon tetrachloride	U		0.00115	0.00535	1	10/12/2019 14:17	WG1361818
Chlorobenzene	U		0.000613	0.00267	1	10/12/2019 14:17	WG1361818
Chlorodibromomethane	U		0.000481	0.00267	1	10/12/2019 14:17	WG1361818
Chloroethane	U		0.00115	0.00535	1	10/12/2019 14:17	WG1361818
Chloroform	0.000716 U	~~B J~~	0.000444	0.00267	1	10/12/2019 14:17	WG1361818
Chloromethane	U		0.00149	0.0134	1	10/12/2019 14:17	WG1361818
2-Chlorotoluene	U		0.000984	0.00267	1	10/12/2019 14:17	WG1361818
4-Chlorotoluene	U		0.00121	0.00535	1	10/12/2019 14:17	WG1361818
1,2-Dibromo-3-Chloropropane	U		0.00545	0.0267	1	10/12/2019 14:17	WG1361818
1,2-Dibromoethane	U		0.000561	0.00267	1	10/12/2019 14:17	WG1361818
Dibromomethane	U		0.00107	0.00535	1	10/12/2019 14:17	WG1361818
1,2-Dichlorobenzene	U		0.00155	0.00535	1	10/12/2019 14:17	WG1361818
1,3-Dichlorobenzene	U		0.00182	0.00535	1	10/12/2019 14:17	WG1361818
1,4-Dichlorobenzene	U		0.00211	0.00535	1	10/12/2019 14:17	WG1361818
Dichlorodifluoromethane	U		0.000875	0.00267	1	10/12/2019 14:17	WG1361818
1,1-Dichloroethane	U		0.000615	0.00267	1	10/12/2019 14:17	WG1361818
1,2-Dichloroethane	U		0.000508	0.00267	1	10/12/2019 14:17	WG1361818
1,1-Dichloroethene	U		0.000535	0.00267	1	10/12/2019 14:17	WG1361818
cis-1,2-Dichloroethene	U		0.000738	0.00267	1	10/12/2019 14:17	WG1361818
trans-1,2-Dichloroethene	U		0.00153	0.00535	1	10/12/2019 14:17	WG1361818
1,2-Dichloropropane	U		0.00136	0.00535	1	10/12/2019 14:17	WG1361818
1,1-Dichloropropene	U		0.000749	0.00267	1	10/12/2019 14:17	WG1361818
1,3-Dichloropropane	U		0.00187	0.00535	1	10/12/2019 14:17	WG1361818
cis-1,3-Dichloropropene	U		0.000725	0.00267	1	10/12/2019 14:17	WG1361818
trans-1,3-Dichloropropene	U		0.00164	0.00535	1	10/12/2019 14:17	WG1361818
trans-1,4-Dichloro-2-butene	U		0.00150	0.00535	1	10/12/2019 14:17	WG1361818
2,2-Dichloropropane	U		0.000848	0.00267	1	10/12/2019 14:17	WG1361818
Di-isopropyl ether	U		0.000374	0.00107	1	10/12/2019 14:17	WG1361818
Ethylbenzene	U		0.000567	0.00267	1	10/12/2019 14:17	WG1361818
Hexachloro-1,3-butadiene	U		0.0136	0.0267	1	10/12/2019 14:17	WG1361818
2-Hexanone	U		0.0107	0.0267	1	10/12/2019 14:17	WG1361818
n-Hexane	U		0.00113	0.00535	1	10/12/2019 14:17	WG1361818
Iodomethane	U		0.00647	0.0134	1	10/12/2019 14:17	WG1361818
Isopropylbenzene	U		0.000923	0.00267	1	10/12/2019 14:17	WG1361818
p-Isopropyltoluene	U		0.00249	0.00535	1	10/12/2019 14:17	WG1361818
2-Butanone (MEK)	0.0139 U	~~B J~~	0.0134	0.0267	1	10/12/2019 14:17	WG1361818
Methylene Chloride	U		0.00710	0.0267	1	10/12/2019 14:17	WG1361818
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	10/12/2019 14:17	WG1361818

JC 11/1/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Methyl tert-butyl ether	0.000366	J	0.000315	0.00107	1	10/12/2019 14:17	WG1361818
Naphthalene	U		0.00334	0.0134	1	10/12/2019 14:17	WG1361818
n-Propylbenzene	U		0.00126	0.00535	1	10/12/2019 14:17	WG1361818
Styrene	U		0.00292	0.0134	1	10/12/2019 14:17	WG1361818
1,1,1,2-Tetrachloroethane	U		0.000535	0.00267	1	10/12/2019 14:17	WG1361818
1,1,2,2-Tetrachloroethane	U		0.000417	0.00267	1	10/12/2019 14:17	WG1361818
1,1,2-Trichlorotrifluoroethane	U		0.000722	0.00267	1	10/12/2019 14:17	WG1361818
Tetrachloroethene	U		0.000749	0.00267	1	10/12/2019 14:17	WG1361818
Toluene	0.00602		0.00134	0.00535	1	10/12/2019 14:17	WG1361818
1,2,3-Trichlorobenzene	U		0.000668	0.00267	1	10/12/2019 14:17	WG1361818
1,2,4-Trichlorobenzene	U		0.00515	0.0134	1	10/12/2019 14:17	WG1361818
1,1,1-Trichloroethane	U		0.000294	0.00267	1	10/12/2019 14:17	WG1361818
1,1,2-Trichloroethane	U		0.000944	0.00267	1	10/12/2019 14:17	WG1361818
Trichloroethene	U		0.000428	0.00107	1	10/12/2019 14:17	WG1361818
Trichlorofluoromethane	U		0.000535	0.00267	1	10/12/2019 14:17	WG1361818
1,2,3-Trichloropropane	U		0.00545	0.0134	1	10/12/2019 14:17	WG1361818
1,2,4-Trimethylbenzene	U		0.00124	0.00535	1	10/12/2019 14:17	WG1361818
1,2,3-Trimethylbenzene	U		0.00123	0.00535	1	10/12/2019 14:17	WG1361818
1,3,5-Trimethylbenzene	U		0.00115	0.00535	1	10/12/2019 14:17	WG1361818
Vinyl acetate	U		0.00376	0.0134	1	10/12/2019 14:17	WG1361818
Vinyl chloride	U		0.000730	0.00267	1	10/12/2019 14:17	WG1361818
Xylenes, Total	U		0.00511	0.00695	1	10/12/2019 14:17	WG1361818
(S) Toluene-d8	*104*			*75.0-131*		*10/12/2019 14:17*	WG1361818
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/12/2019 14:17*	WG1361818
(S) 1,2-Dichloroethane-d4	*96.9*			*70.0-130*		*10/12/2019 14:17*	WG1361818

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MW-307-25

Collected date/time: 10/03/19 10:07

SAMPLE RESULTS - 05

L1147037

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.2		1	10/12/2019 16:51	WG1361912

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0150	0.0274	1	10/12/2019 14:38	WG1361818
Acrylonitrile	U		0.00208	0.0137	1	10/12/2019 14:38	WG1361818
Benzene	U		0.000439	0.00110	1	10/12/2019 14:38	WG1361818
Bromobenzene	U		0.00115	0.0137	1	10/12/2019 14:38	WG1361818
Bromodichloromethane	U		0.000864	0.00274	1	10/12/2019 14:38	WG1361818
Bromochloromethane	U		0.00124	0.00549	1	10/12/2019 14:38	WG1361818
Bromoform	U		0.00656	0.0274	1	10/12/2019 14:38	WG1361818
Bromomethane	U		0.00406	0.0137	1	10/12/2019 14:38	WG1361818
n-Butylbenzene	U		0.00421	0.0137	1	10/12/2019 14:38	WG1361818
sec-Butylbenzene	U		0.00278	0.0137	1	10/12/2019 14:38	WG1361818
tert-Butylbenzene	U		0.00170	0.00549	1	10/12/2019 14:38	WG1361818
Carbon disulfide	U		0.00445	0.0137	1	10/12/2019 14:38	WG1361818
Carbon tetrachloride	U		0.00118	0.00549	1	10/12/2019 14:38	WG1361818
Chlorobenzene	U		0.000629	0.00274	1	10/12/2019 14:38	WG1361818
Chlorodibromomethane	U		0.000494	0.00274	1	10/12/2019 14:38	WG1361818
Chloroethane	U		0.00118	0.00549	1	10/12/2019 14:38	WG1361818
Chloroform	0.000593 U	~~B J~~	0.000455	0.00274	1	10/12/2019 14:38	WG1361818
Chloromethane	U		0.00152	0.0137	1	10/12/2019 14:38	WG1361818
2-Chlorotoluene	U		0.00101	0.00274	1	10/12/2019 14:38	WG1361818
4-Chlorotoluene	U		0.00124	0.00549	1	10/12/2019 14:38	WG1361818
1,2-Dibromo-3-Chloropropane	U		0.00559	0.0274	1	10/12/2019 14:38	WG1361818
1,2-Dibromoethane	U		0.000576	0.00274	1	10/12/2019 14:38	WG1361818
Dibromomethane	U		0.00110	0.00549	1	10/12/2019 14:38	WG1361818
1,2-Dichlorobenzene	U		0.00159	0.00549	1	10/12/2019 14:38	WG1361818
1,3-Dichlorobenzene	U		0.00186	0.00549	1	10/12/2019 14:38	WG1361818
1,4-Dichlorobenzene	U		0.00216	0.00549	1	10/12/2019 14:38	WG1361818
Dichlorodifluoromethane	U		0.000897	0.00274	1	10/12/2019 14:38	WG1361818
1,1-Dichloroethane	U		0.000631	0.00274	1	10/12/2019 14:38	WG1361818
1,2-Dichloroethane	U		0.000521	0.00274	1	10/12/2019 14:38	WG1361818
1,1-Dichloroethene	U		0.000549	0.00274	1	10/12/2019 14:38	WG1361818
cis-1,2-Dichloroethene	U		0.000757	0.00274	1	10/12/2019 14:38	WG1361818
trans-1,2-Dichloroethene	U		0.00157	0.00549	1	10/12/2019 14:38	WG1361818
1,2-Dichloropropane	U		0.00139	0.00549	1	10/12/2019 14:38	WG1361818
1,1-Dichloropropene	U		0.000768	0.00274	1	10/12/2019 14:38	WG1361818
1,3-Dichloropropane	U		0.00192	0.00549	1	10/12/2019 14:38	WG1361818
cis-1,3-Dichloropropene	U		0.000744	0.00274	1	10/12/2019 14:38	WG1361818
trans-1,3-Dichloropropene	U		0.00168	0.00549	1	10/12/2019 14:38	WG1361818
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	10/12/2019 14:38	WG1361818
2,2-Dichloropropane	U		0.000870	0.00274	1	10/12/2019 14:38	WG1361818
Di-isopropyl ether	U		0.000384	0.00110	1	10/12/2019 14:38	WG1361818
Ethylbenzene	U		0.000581	0.00274	1	10/12/2019 14:38	WG1361818
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	10/12/2019 14:38	WG1361818
2-Hexanone	U		0.0110	0.0274	1	10/12/2019 14:38	WG1361818
n-Hexane	0.0218		0.00116	0.00549	1	10/12/2019 14:38	WG1361818
Iodomethane	U		0.00664	0.0137	1	10/12/2019 14:38	WG1361818
Isopropylbenzene	U		0.000947	0.00274	1	10/12/2019 14:38	WG1361818
p-Isopropyltoluene	U		0.00256	0.00549	1	10/12/2019 14:38	WG1361818
2-Butanone (MEK)	U		0.0137	0.0274	1	10/12/2019 14:38	WG1361818
Methylene Chloride	U		0.00728	0.0274	1	10/12/2019 14:38	WG1361818
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	10/12/2019 14:38	WG1361818

JC 11/1/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	10/12/2019 14:38	WG1361818
Naphthalene	U		0.00342	0.0137	1	10/12/2019 14:38	WG1361818
n-Propylbenzene	U		0.00129	0.00549	1	10/12/2019 14:38	WG1361818
Styrene	U		0.00299	0.0137	1	10/12/2019 14:38	WG1361818
1,1,1,2-Tetrachloroethane	U		0.000549	0.00274	1	10/12/2019 14:38	WG1361818
1,1,2,2-Tetrachloroethane	U		0.000428	0.00274	1	10/12/2019 14:38	WG1361818
1,1,2-Trichlorotrifluoroethane	U		0.000740	0.00274	1	10/12/2019 14:38	WG1361818
Tetrachloroethene	U		0.000768	0.00274	1	10/12/2019 14:38	WG1361818
Toluene	0.00675		0.00137	0.00549	1	10/12/2019 14:38	WG1361818
1,2,3-Trichlorobenzene	U		0.000686	0.00274	1	10/12/2019 14:38	WG1361818
1,2,4-Trichlorobenzene	U		0.00529	0.0137	1	10/12/2019 14:38	WG1361818
1,1,1-Trichloroethane	U		0.000302	0.00274	1	10/12/2019 14:38	WG1361818
1,1,2-Trichloroethane	U		0.000969	0.00274	1	10/12/2019 14:38	WG1361818
Trichloroethene	U		0.000439	0.00110	1	10/12/2019 14:38	WG1361818
Trichlorofluoromethane	U		0.000549	0.00274	1	10/12/2019 14:38	WG1361818
1,2,3-Trichloropropane	U		0.00559	0.0137	1	10/12/2019 14:38	WG1361818
1,2,4-Trimethylbenzene	U		0.00127	0.00549	1	10/12/2019 14:38	WG1361818
1,2,3-Trimethylbenzene	U		0.00126	0.00549	1	10/12/2019 14:38	WG1361818
1,3,5-Trimethylbenzene	U		0.00118	0.00549	1	10/12/2019 14:38	WG1361818
Vinyl acetate	U		0.00386	0.0137	1	10/12/2019 14:38	WG1361818
Vinyl chloride	U		0.000749	0.00274	1	10/12/2019 14:38	WG1361818
Xylenes, Total	U		0.00524	0.00713	1	10/12/2019 14:38	WG1361818
(S) Toluene-d8	*105*			*75.0-131*		*10/12/2019 14:38*	WG1361818
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/12/2019 14:38*	WG1361818
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*10/12/2019 14:38*	WG1361818

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.2		1	10/12/2019 16:51	WG1361912

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0202	0.0369	1.33	10/12/2019 14:59	WG1361818
Acrylonitrile	U		0.00280	0.0184	1.33	10/12/2019 14:59	WG1361818
Benzene	U		0.000589	0.00147	1.33	10/12/2019 14:59	WG1361818
Bromobenzene	U		0.00155	0.0184	1.33	10/12/2019 14:59	WG1361818
Bromodichloromethane	U		0.00116	0.00369	1.33	10/12/2019 14:59	WG1361818
Bromochloromethane	U		0.00166	0.00737	1.33	10/12/2019 14:59	WG1361818
Bromoform	U		0.00881	0.0369	1.33	10/12/2019 14:59	WG1361818
Bromomethane	U		0.00545	0.0184	1.33	10/12/2019 14:59	WG1361818
n-Butylbenzene	U		0.00566	0.0184	1.33	10/12/2019 14:59	WG1361818
sec-Butylbenzene	U		0.00372	0.0184	1.33	10/12/2019 14:59	WG1361818
tert-Butylbenzene	U		0.00228	0.00737	1.33	10/12/2019 14:59	WG1361818
Carbon disulfide	U		0.00598	0.0184	1.33	10/12/2019 14:59	WG1361818
Carbon tetrachloride	U		0.00160	0.00737	1.33	10/12/2019 14:59	WG1361818
Chlorobenzene	U		0.000844	0.00369	1.33	10/12/2019 14:59	WG1361818
Chlorodibromomethane	U		0.000664	0.00369	1.33	10/12/2019 14:59	WG1361818
Chloroethane	U		0.00160	0.00737	1.33	10/12/2019 14:59	WG1361818
Chloroform	0.000776 U	~~B J~~	0.000612	0.00369	1.33	10/12/2019 14:59	WG1361818
Chloromethane	U		0.00205	0.0184	1.33	10/12/2019 14:59	WG1361818
2-Chlorotoluene	U		0.00135	0.00369	1.33	10/12/2019 14:59	WG1361818
4-Chlorotoluene	U		0.00166	0.00737	1.33	10/12/2019 14:59	WG1361818
1,2-Dibromo-3-Chloropropane	U		0.00751	0.0369	1.33	10/12/2019 14:59	WG1361818
1,2-Dibromoethane	U		0.000773	0.00369	1.33	10/12/2019 14:59	WG1361818
Dibromomethane	U		0.00147	0.00737	1.33	10/12/2019 14:59	WG1361818
1,2-Dichlorobenzene	U		0.00214	0.00737	1.33	10/12/2019 14:59	WG1361818
1,3-Dichlorobenzene	U		0.00250	0.00737	1.33	10/12/2019 14:59	WG1361818
1,4-Dichlorobenzene	U		0.00290	0.00737	1.33	10/12/2019 14:59	WG1361818
Dichlorodifluoromethane	U		0.00121	0.00369	1.33	10/12/2019 14:59	WG1361818
1,1-Dichloroethane	U		0.000848	0.00369	1.33	10/12/2019 14:59	WG1361818
1,2-Dichloroethane	U		0.000700	0.00369	1.33	10/12/2019 14:59	WG1361818
1,1-Dichloroethene	U		0.000737	0.00369	1.33	10/12/2019 14:59	WG1361818
cis-1,2-Dichloroethene	U		0.00102	0.00369	1.33	10/12/2019 14:59	WG1361818
trans-1,2-Dichloroethene	U		0.00211	0.00737	1.33	10/12/2019 14:59	WG1361818
1,2-Dichloropropane	U		0.00187	0.00737	1.33	10/12/2019 14:59	WG1361818
1,1-Dichloropropene	U		0.00103	0.00369	1.33	10/12/2019 14:59	WG1361818
1,3-Dichloropropane	U		0.00258	0.00737	1.33	10/12/2019 14:59	WG1361818
cis-1,3-Dichloropropene	U		0.000999	0.00369	1.33	10/12/2019 14:59	WG1361818
trans-1,3-Dichloropropene	U		0.00225	0.00737	1.33	10/12/2019 14:59	WG1361818
trans-1,4-Dichloro-2-butene	U		0.00206	0.00737	1.33	10/12/2019 14:59	WG1361818
2,2-Dichloropropane	U		0.00116	0.00369	1.33	10/12/2019 14:59	WG1361818
Di-isopropyl ether	U		0.000516	0.00147	1.33	10/12/2019 14:59	WG1361818
Ethylbenzene	U		0.000781	0.00369	1.33	10/12/2019 14:59	WG1361818
Hexachloro-1,3-butadiene	U		0.0187	0.0369	1.33	10/12/2019 14:59	WG1361818
2-Hexanone	U		0.0147	0.0369	1.33	10/12/2019 14:59	WG1361818
n-Hexane	0.0151		0.00156	0.00737	1.33	10/12/2019 14:59	WG1361818
Iodomethane	U		0.00892	0.0184	1.33	10/12/2019 14:59	WG1361818
Isopropylbenzene	U		0.00127	0.00369	1.33	10/12/2019 14:59	WG1361818
p-Isopropyltoluene	U		0.00344	0.00737	1.33	10/12/2019 14:59	WG1361818
2-Butanone (MEK)	U		0.0184	0.0369	1.33	10/12/2019 14:59	WG1361818
Methylene Chloride	U		0.00978	0.0369	1.33	10/12/2019 14:59	WG1361818
4-Methyl-2-pentanone (MIBK)	U		0.0147	0.0369	1.33	10/12/2019 14:59	WG1361818

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.000483	J	0.000434	0.00147	1.33	10/12/2019 14:59	WG1361818
Naphthalene	U		0.00460	0.0184	1.33	10/12/2019 14:59	WG1361818
n-Propylbenzene	U		0.00174	0.00737	1.33	10/12/2019 14:59	WG1361818
Styrene	U		0.00402	0.0184	1.33	10/12/2019 14:59	WG1361818
1,1,1,2-Tetrachloroethane	U		0.000737	0.00369	1.33	10/12/2019 14:59	WG1361818
1,1,2,2-Tetrachloroethane	U		0.000575	0.00369	1.33	10/12/2019 14:59	WG1361818
1,1,2-Trichlorotrifluoroethane	U		0.000995	0.00369	1.33	10/12/2019 14:59	WG1361818
Tetrachloroethene	U		0.00103	0.00369	1.33	10/12/2019 14:59	WG1361818
Toluene	0.0148		0.00184	0.00737	1.33	10/12/2019 14:59	WG1361818
1,2,3-Trichlorobenzene	U		0.000921	0.00369	1.33	10/12/2019 14:59	WG1361818
1,2,4-Trichlorobenzene	U		0.00710	0.0184	1.33	10/12/2019 14:59	WG1361818
1,1,1-Trichloroethane	U		0.000406	0.00369	1.33	10/12/2019 14:59	WG1361818
1,1,2-Trichloroethane	U		0.00130	0.00369	1.33	10/12/2019 14:59	WG1361818
Trichloroethene	U		0.000589	0.00147	1.33	10/12/2019 14:59	WG1361818
Trichlorofluoromethane	U		0.000737	0.00369	1.33	10/12/2019 14:59	WG1361818
1,2,3-Trichloropropane	U		0.00751	0.0184	1.33	10/12/2019 14:59	WG1361818
1,2,4-Trimethylbenzene	U		0.00171	0.00737	1.33	10/12/2019 14:59	WG1361818
1,2,3-Trimethylbenzene	U		0.00170	0.00737	1.33	10/12/2019 14:59	WG1361818
1,3,5-Trimethylbenzene	U		0.00160	0.00737	1.33	10/12/2019 14:59	WG1361818
Vinyl acetate	U		0.00519	0.0184	1.33	10/12/2019 14:59	WG1361818
Vinyl chloride	U		0.00101	0.00369	1.33	10/12/2019 14:59	WG1361818
Xylenes, Total	U		0.00705	0.00958	1.33	10/12/2019 14:59	WG1361818
(S) Toluene-d8	*104*			*75.0-131*		*10/12/2019 14:59*	WG1361818
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/12/2019 14:59*	WG1361818
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*10/12/2019 14:59*	WG1361818

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.5		1	10/12/2019 16:51	WG1361912

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0147	0.0267	1	10/12/2019 15:20	WG1361818
Acrylonitrile	U		0.00203	0.0134	1	10/12/2019 15:20	WG1361818
Benzene	U		0.000428	0.00107	1	10/12/2019 15:20	WG1361818
Bromobenzene	U		0.00112	0.0134	1	10/12/2019 15:20	WG1361818
Bromodichloromethane	U		0.000843	0.00267	1	10/12/2019 15:20	WG1361818
Bromochloromethane	U		0.00121	0.00535	1	10/12/2019 15:20	WG1361818
Bromoform	U		0.00640	0.0267	1	10/12/2019 15:20	WG1361818
Bromomethane	U		0.00396	0.0134	1	10/12/2019 15:20	WG1361818
n-Butylbenzene	U		0.00411	0.0134	1	10/12/2019 15:20	WG1361818
sec-Butylbenzene	U		0.00271	0.0134	1	10/12/2019 15:20	WG1361818
tert-Butylbenzene	U		0.00166	0.00535	1	10/12/2019 15:20	WG1361818
Carbon disulfide	U		0.00434	0.0134	1	10/12/2019 15:20	WG1361818
Carbon tetrachloride	U		0.00116	0.00535	1	10/12/2019 15:20	WG1361818
Chlorobenzene	U		0.000613	0.00267	1	10/12/2019 15:20	WG1361818
Chlorodibromomethane	U		0.000481	0.00267	1	10/12/2019 15:20	WG1361818
Chloroethane	U		0.00116	0.00535	1	10/12/2019 15:20	WG1361818
Chloroform	0.000452	U ~~BJ~~	0.000444	0.00267	1	10/12/2019 15:20	WG1361818
Chloromethane	U		0.00149	0.0134	1	10/12/2019 15:20	WG1361818
2-Chlorotoluene	U		0.000984	0.00267	1	10/12/2019 15:20	WG1361818
4-Chlorotoluene	U		0.00121	0.00535	1	10/12/2019 15:20	WG1361818
1,2-Dibromo-3-Chloropropane	U		0.00546	0.0267	1	10/12/2019 15:20	WG1361818
1,2-Dibromoethane	U		0.000562	0.00267	1	10/12/2019 15:20	WG1361818
Dibromomethane	U		0.00107	0.00535	1	10/12/2019 15:20	WG1361818
1,2-Dichlorobenzene	U		0.00155	0.00535	1	10/12/2019 15:20	WG1361818
1,3-Dichlorobenzene	U		0.00182	0.00535	1	10/12/2019 15:20	WG1361818
1,4-Dichlorobenzene	U		0.00211	0.00535	1	10/12/2019 15:20	WG1361818
Dichlorodifluoromethane	U		0.000875	0.00267	1	10/12/2019 15:20	WG1361818
1,1-Dichloroethane	U		0.000615	0.00267	1	10/12/2019 15:20	WG1361818
1,2-Dichloroethane	U		0.000508	0.00267	1	10/12/2019 15:20	WG1361818
1,1-Dichloroethene	U		0.000535	0.00267	1	10/12/2019 15:20	WG1361818
cis-1,2-Dichloroethene	U		0.000738	0.00267	1	10/12/2019 15:20	WG1361818
trans-1,2-Dichloroethene	U		0.00153	0.00535	1	10/12/2019 15:20	WG1361818
1,2-Dichloropropane	U		0.00136	0.00535	1	10/12/2019 15:20	WG1361818
1,1-Dichloropropene	U		0.000749	0.00267	1	10/12/2019 15:20	WG1361818
1,3-Dichloropropane	U		0.00187	0.00535	1	10/12/2019 15:20	WG1361818
cis-1,3-Dichloropropene	U		0.000725	0.00267	1	10/12/2019 15:20	WG1361818
trans-1,3-Dichloropropene	U		0.00164	0.00535	1	10/12/2019 15:20	WG1361818
trans-1,4-Dichloro-2-butene	U		0.00150	0.00535	1	10/12/2019 15:20	WG1361818
2,2-Dichloropropane	U		0.000849	0.00267	1	10/12/2019 15:20	WG1361818
Di-isopropyl ether	U		0.000374	0.00107	1	10/12/2019 15:20	WG1361818
Ethylbenzene	U		0.000567	0.00267	1	10/12/2019 15:20	WG1361818
Hexachloro-1,3-butadiene	U		0.0136	0.0267	1	10/12/2019 15:20	WG1361818
2-Hexanone	U		0.0107	0.0267	1	10/12/2019 15:20	WG1361818
n-Hexane	0.0162		0.00113	0.00535	1	10/12/2019 15:20	WG1361818
Iodomethane	U		0.00647	0.0134	1	10/12/2019 15:20	WG1361818
Isopropylbenzene	U		0.000923	0.00267	1	10/12/2019 15:20	WG1361818
p-Isopropyltoluene	U		0.00249	0.00535	1	10/12/2019 15:20	WG1361818
2-Butanone (MEK)	0.0154	U ~~BJ~~	0.0134	0.0267	1	10/12/2019 15:20	WG1361818
Methylene Chloride	U		0.00710	0.0267	1	10/12/2019 15:20	WG1361818
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	10/12/2019 15:20	WG1361818

JC 11/1/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000316	0.00107	1	10/12/2019 15:20	WG1361818
Naphthalene	U		0.00334	0.0134	1	10/12/2019 15:20	WG1361818
n-Propylbenzene	U		0.00126	0.00535	1	10/12/2019 15:20	WG1361818
Styrene	U		0.00292	0.0134	1	10/12/2019 15:20	WG1361818
1,1,1,2-Tetrachloroethane	U		0.000535	0.00267	1	10/12/2019 15:20	WG1361818
1,1,2,2-Tetrachloroethane	U		0.000417	0.00267	1	10/12/2019 15:20	WG1361818
1,1,2-Trichlorotrifluoroethane	U		0.000722	0.00267	1	10/12/2019 15:20	WG1361818
Tetrachloroethene	U		0.000749	0.00267	1	10/12/2019 15:20	WG1361818
Toluene	0.0111		0.00134	0.00535	1	10/12/2019 15:20	WG1361818
1,2,3-Trichlorobenzene	U		0.000669	0.00267	1	10/12/2019 15:20	WG1361818
1,2,4-Trichlorobenzene	U		0.00516	0.0134	1	10/12/2019 15:20	WG1361818
1,1,1-Trichloroethane	U		0.000294	0.00267	1	10/12/2019 15:20	WG1361818
1,1,2-Trichloroethane	U		0.000945	0.00267	1	10/12/2019 15:20	WG1361818
Trichloroethene	U		0.000428	0.00107	1	10/12/2019 15:20	WG1361818
Trichlorofluoromethane	U		0.000535	0.00267	1	10/12/2019 15:20	WG1361818
1,2,3-Trichloropropane	U		0.00546	0.0134	1	10/12/2019 15:20	WG1361818
1,2,4-Trimethylbenzene	U		0.00124	0.00535	1	10/12/2019 15:20	WG1361818
1,2,3-Trimethylbenzene	U		0.00123	0.00535	1	10/12/2019 15:20	WG1361818
1,3,5-Trimethylbenzene	U		0.00116	0.00535	1	10/12/2019 15:20	WG1361818
Vinyl acetate	U		0.00377	0.0134	1	10/12/2019 15:20	WG1361818
Vinyl chloride	U		0.000731	0.00267	1	10/12/2019 15:20	WG1361818
Xylenes, Total	U		0.00511	0.00695	1	10/12/2019 15:20	WG1361818
(S) Toluene-d8	*104*			*75.0-131*		*10/12/2019 15:20*	WG1361818
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/12/2019 15:20*	WG1361818
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*10/12/2019 15:20*	WG1361818

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.6		1	10/12/2019 16:51	WG1361912

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0164 U	J	0.0156	0.0285	1	10/12/2019 15:40	WG1361818
Acrylonitrile	U		0.00217	0.0143	1	10/12/2019 15:40	WG1361818
Benzene	U		0.000457	0.00114	1	10/12/2019 15:40	WG1361818
Bromobenzene	U		0.00120	0.0143	1	10/12/2019 15:40	WG1361818
Bromodichloromethane	U		0.000900	0.00285	1	10/12/2019 15:40	WG1361818
Bromochloromethane	U		0.00129	0.00571	1	10/12/2019 15:40	WG1361818
Bromoform	U		0.00683	0.0285	1	10/12/2019 15:40	WG1361818
Bromomethane	U		0.00422	0.0143	1	10/12/2019 15:40	WG1361818
n-Butylbenzene	U		0.00438	0.0143	1	10/12/2019 15:40	WG1361818
sec-Butylbenzene	U		0.00289	0.0143	1	10/12/2019 15:40	WG1361818
tert-Butylbenzene	U		0.00177	0.00571	1	10/12/2019 15:40	WG1361818
Carbon disulfide	U		0.00464	0.0143	1	10/12/2019 15:40	WG1361818
Carbon tetrachloride	U		0.00123	0.00571	1	10/12/2019 15:40	WG1361818
Chlorobenzene	U		0.000654	0.00285	1	10/12/2019 15:40	WG1361818
Chlorodibromomethane	U		0.000514	0.00285	1	10/12/2019 15:40	WG1361818
Chloroethane	U		0.00123	0.00571	1	10/12/2019 15:40	WG1361818
Chloroform	0.000730 U	~~B J~~	0.000474	0.00285	1	10/12/2019 15:40	WG1361818
Chloromethane	U		0.00159	0.0143	1	10/12/2019 15:40	WG1361818
2-Chlorotoluene	U		0.00105	0.00285	1	10/12/2019 15:40	WG1361818
4-Chlorotoluene	U		0.00129	0.00571	1	10/12/2019 15:40	WG1361818
1,2-Dibromo-3-Chloropropane	U		0.00582	0.0285	1	10/12/2019 15:40	WG1361818
1,2-Dibromoethane	U		0.000599	0.00285	1	10/12/2019 15:40	WG1361818
Dibromomethane	U		0.00114	0.00571	1	10/12/2019 15:40	WG1361818
1,2-Dichlorobenzene	U		0.00166	0.00571	1	10/12/2019 15:40	WG1361818
1,3-Dichlorobenzene	U		0.00194	0.00571	1	10/12/2019 15:40	WG1361818
1,4-Dichlorobenzene	U		0.00225	0.00571	1	10/12/2019 15:40	WG1361818
Dichlorodifluoromethane	U		0.000934	0.00285	1	10/12/2019 15:40	WG1361818
1,1-Dichloroethane	U		0.000657	0.00285	1	10/12/2019 15:40	WG1361818
1,2-Dichloroethane	U		0.000542	0.00285	1	10/12/2019 15:40	WG1361818
1,1-Dichloroethene	U		0.000571	0.00285	1	10/12/2019 15:40	WG1361818
cis-1,2-Dichloroethene	U		0.000788	0.00285	1	10/12/2019 15:40	WG1361818
trans-1,2-Dichloroethene	U		0.00163	0.00571	1	10/12/2019 15:40	WG1361818
1,2-Dichloropropane	U		0.00145	0.00571	1	10/12/2019 15:40	WG1361818
1,1-Dichloropropene	U		0.000799	0.00285	1	10/12/2019 15:40	WG1361818
1,3-Dichloropropane	U		0.00200	0.00571	1	10/12/2019 15:40	WG1361818
cis-1,3-Dichloropropene	U		0.000774	0.00285	1	10/12/2019 15:40	WG1361818
trans-1,3-Dichloropropene	U		0.00175	0.00571	1	10/12/2019 15:40	WG1361818
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	10/12/2019 15:40	WG1361818
2,2-Dichloropropane	U		0.000905	0.00285	1	10/12/2019 15:40	WG1361818
Di-isopropyl ether	U		0.000400	0.00114	1	10/12/2019 15:40	WG1361818
Ethylbenzene	U		0.000605	0.00285	1	10/12/2019 15:40	WG1361818
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	10/12/2019 15:40	WG1361818
2-Hexanone	U		0.0114	0.0285	1	10/12/2019 15:40	WG1361818
n-Hexane	U		0.00121	0.00571	1	10/12/2019 15:40	WG1361818
Iodomethane	U		0.00691	0.0143	1	10/12/2019 15:40	WG1361818
Isopropylbenzene	U		0.000985	0.00285	1	10/12/2019 15:40	WG1361818
p-Isopropyltoluene	U		0.00266	0.00571	1	10/12/2019 15:40	WG1361818
2-Butanone (MEK)	U		0.0143	0.0285	1	10/12/2019 15:40	WG1361818
Methylene Chloride	U		0.00758	0.0285	1	10/12/2019 15:40	WG1361818
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	10/12/2019 15:40	WG1361818

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000337	0.00114	1	10/12/2019 15:40	WG1361818
Naphthalene	U		0.00356	0.0143	1	10/12/2019 15:40	WG1361818
n-Propylbenzene	U		0.00135	0.00571	1	10/12/2019 15:40	WG1361818
Styrene	U		0.00312	0.0143	1	10/12/2019 15:40	WG1361818
1,1,1,2-Tetrachloroethane	U		0.000571	0.00285	1	10/12/2019 15:40	WG1361818
1,1,2,2-Tetrachloroethane	U		0.000445	0.00285	1	10/12/2019 15:40	WG1361818
1,1,2-Trichlorotrifluoroethane	U		0.000771	0.00285	1	10/12/2019 15:40	WG1361818
Tetrachloroethene	U		0.000799	0.00285	1	10/12/2019 15:40	WG1361818
Toluene	0.00815		0.00143	0.00571	1	10/12/2019 15:40	WG1361818
1,2,3-Trichlorobenzene	U		0.000714	0.00285	1	10/12/2019 15:40	WG1361818
1,2,4-Trichlorobenzene	U		0.00550	0.0143	1	10/12/2019 15:40	WG1361818
1,1,1-Trichloroethane	U		0.000314	0.00285	1	10/12/2019 15:40	WG1361818
1,1,2-Trichloroethane	U		0.00101	0.00285	1	10/12/2019 15:40	WG1361818
Trichloroethene	U		0.000457	0.00114	1	10/12/2019 15:40	WG1361818
Trichlorofluoromethane	U		0.000571	0.00285	1	10/12/2019 15:40	WG1361818
1,2,3-Trichloropropane	U		0.00582	0.0143	1	10/12/2019 15:40	WG1361818
1,2,4-Trimethylbenzene	U		0.00132	0.00571	1	10/12/2019 15:40	WG1361818
1,2,3-Trimethylbenzene	U		0.00131	0.00571	1	10/12/2019 15:40	WG1361818
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	10/12/2019 15:40	WG1361818
Vinyl acetate	U		0.00402	0.0143	1	10/12/2019 15:40	WG1361818
Vinyl chloride	U		0.000780	0.00285	1	10/12/2019 15:40	WG1361818
Xylenes, Total	U		0.00546	0.00742	1	10/12/2019 15:40	WG1361818
(S) Toluene-d8	*104*			*75.0-131*		*10/12/2019 15:40*	WG1361818
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/12/2019 15:40*	WG1361818
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*10/12/2019 15:40*	WG1361818

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.7		1	10/12/2019 16:51	WG1361912

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Acetone	U		0.0151	0.0276	1	10/12/2019 16:01	WG1361818	
Acrylonitrile	U		0.00210	0.0138	1	10/12/2019 16:01	WG1361818	
Benzene	U		0.000441	0.00110	1	10/12/2019 16:01	WG1361818	
Bromobenzene	U		0.00116	0.0138	1	10/12/2019 16:01	WG1361818	
Bromodichloromethane	U		0.000869	0.00276	1	10/12/2019 16:01	WG1361818	
Bromochloromethane	U		0.00125	0.00551	1	10/12/2019 16:01	WG1361818	
Bromoform	U		0.00660	0.0276	1	10/12/2019 16:01	WG1361818	
Bromomethane	U		0.00408	0.0138	1	10/12/2019 16:01	WG1361818	
n-Butylbenzene	U		0.00424	0.0138	1	10/12/2019 16:01	WG1361818	
sec-Butylbenzene	U		0.00279	0.0138	1	10/12/2019 16:01	WG1361818	
tert-Butylbenzene	U		0.00171	0.00551	1	10/12/2019 16:01	WG1361818	
Carbon disulfide	U		0.00448	0.0138	1	10/12/2019 16:01	WG1361818	
Carbon tetrachloride	U		0.00119	0.00551	1	10/12/2019 16:01	WG1361818	
Chlorobenzene	U		0.000632	0.00276	1	10/12/2019 16:01	WG1361818	
Chlorodibromomethane	U		0.000496	0.00276	1	10/12/2019 16:01	WG1361818	
Chloroethane	U		0.00119	0.00551	1	10/12/2019 16:01	WG1361818	
Chloroform	0.000699	U ~~B J~~	0.000458	0.00276	1	10/12/2019 16:01	WG1361818	
Chloromethane	U		0.00153	0.0138	1	10/12/2019 16:01	WG1361818	
2-Chlorotoluene	U		0.00101	0.00276	1	10/12/2019 16:01	WG1361818	
4-Chlorotoluene	U		0.00125	0.00551	1	10/12/2019 16:01	WG1361818	
1,2-Dibromo-3-Chloropropane	U		0.00563	0.0276	1	10/12/2019 16:01	WG1361818	
1,2-Dibromoethane	U		0.000579	0.00276	1	10/12/2019 16:01	WG1361818	
Dibromomethane	U		0.00110	0.00551	1	10/12/2019 16:01	WG1361818	
1,2-Dichlorobenzene	U		0.00160	0.00551	1	10/12/2019 16:01	WG1361818	
1,3-Dichlorobenzene	U		0.00188	0.00551	1	10/12/2019 16:01	WG1361818	
1,4-Dichlorobenzene	U		0.00217	0.00551	1	10/12/2019 16:01	WG1361818	
Dichlorodifluoromethane	U		0.000902	0.00276	1	10/12/2019 16:01	WG1361818	
1,1-Dichloroethane	U		0.000634	0.00276	1	10/12/2019 16:01	WG1361818	
1,2-Dichloroethane	U		0.000524	0.00276	1	10/12/2019 16:01	WG1361818	
1,1-Dichloroethene	U		0.000551	0.00276	1	10/12/2019 16:01	WG1361818	
cis-1,2-Dichloroethene	U		0.000761	0.00276	1	10/12/2019 16:01	WG1361818	
trans-1,2-Dichloroethene	U		0.00158	0.00551	1	10/12/2019 16:01	WG1361818	
1,2-Dichloropropane	U		0.00140	0.00551	1	10/12/2019 16:01	WG1361818	
1,1-Dichloropropene	U		0.000772	0.00276	1	10/12/2019 16:01	WG1361818	
1,3-Dichloropropane	U		0.00193	0.00551	1	10/12/2019 16:01	WG1361818	
cis-1,3-Dichloropropene	U		0.000748	0.00276	1	10/12/2019 16:01	WG1361818	
trans-1,3-Dichloropropene	U		0.00169	0.00551	1	10/12/2019 16:01	WG1361818	
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	10/12/2019 16:01	WG1361818	
2,2-Dichloropropane	U		0.000875	0.00276	1	10/12/2019 16:01	WG1361818	
Di-isopropyl ether	U		0.000386	0.00110	1	10/12/2019 16:01	WG1361818	
Ethylbenzene	U		0.000585	0.00276	1	10/12/2019 16:01	WG1361818	
Hexachloro-1,3-butadiene	U		0.0140	0.0276	1	10/12/2019 16:01	WG1361818	
2-Hexanone	U		0.0110	0.0276	1	10/12/2019 16:01	WG1361818	
n-Hexane	0.00990		0.00117	0.00551	1	10/12/2019 16:01	WG1361818	
Iodomethane	U		0.00667	0.0138	1	10/12/2019 16:01	WG1361818	
Isopropylbenzene	U		0.000952	0.00276	1	10/12/2019 16:01	WG1361818	
p-Isopropyltoluene	U		0.00257	0.00551	1	10/12/2019 16:01	WG1361818	
2-Butanone (MEK)	0.0160	U ~~B J~~	0.0138	0.0276	1	10/12/2019 16:01	WG1361818	JC 11/1/19
Methylene Chloride	U		0.00732	0.0276	1	10/12/2019 16:01	WG1361818	
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0276	1	10/12/2019 16:01	WG1361818	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	10/12/2019 16:01	WG1361818
Naphthalene	U		0.00344	0.0138	1	10/12/2019 16:01	WG1361818
n-Propylbenzene	U		0.00130	0.00551	1	10/12/2019 16:01	WG1361818
Styrene	U		0.00301	0.0138	1	10/12/2019 16:01	WG1361818
1,1,1,2-Tetrachloroethane	U		0.000551	0.00276	1	10/12/2019 16:01	WG1361818
1,1,2,2-Tetrachloroethane	U		0.000430	0.00276	1	10/12/2019 16:01	WG1361818
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00276	1	10/12/2019 16:01	WG1361818
Tetrachloroethene	U		0.000772	0.00276	1	10/12/2019 16:01	WG1361818
Toluene	0.00846		0.00138	0.00551	1	10/12/2019 16:01	WG1361818
1,2,3-Trichlorobenzene	U		0.000689	0.00276	1	10/12/2019 16:01	WG1361818
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	10/12/2019 16:01	WG1361818
1,1,1-Trichloroethane	U		0.000303	0.00276	1	10/12/2019 16:01	WG1361818
1,1,2-Trichloroethane	U		0.000974	0.00276	1	10/12/2019 16:01	WG1361818
Trichloroethene	U		0.000441	0.00110	1	10/12/2019 16:01	WG1361818
Trichlorofluoromethane	U		0.000551	0.00276	1	10/12/2019 16:01	WG1361818
1,2,3-Trichloropropane	U		0.00563	0.0138	1	10/12/2019 16:01	WG1361818
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	10/12/2019 16:01	WG1361818
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	10/12/2019 16:01	WG1361818
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	10/12/2019 16:01	WG1361818
Vinyl acetate	U		0.00388	0.0138	1	10/12/2019 16:01	WG1361818
Vinyl chloride	U		0.000753	0.00276	1	10/12/2019 16:01	WG1361818
Xylenes, Total	U		0.00527	0.00717	1	10/12/2019 16:01	WG1361818
(S) Toluene-d8	*105*			*75.0-131*		*10/12/2019 16:01*	WG1361818
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/12/2019 16:01*	WG1361818
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*		*10/12/2019 16:01*	WG1361818

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MW-307-50

Collected date/time: 10/03/19 10:55

SAMPLE RESULTS - 10

L1147037

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.9		1	10/12/2019 16:51	WG1361912

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0152	0.0278	1	10/12/2019 16:22	WG1361818
Acrylonitrile	U		0.00211	0.0139	1	10/12/2019 16:22	WG1361818
Benzene	U		0.000445	0.00111	1	10/12/2019 16:22	WG1361818
Bromobenzene	U		0.00117	0.0139	1	10/12/2019 16:22	WG1361818
Bromodichloromethane	U		0.000876	0.00278	1	10/12/2019 16:22	WG1361818
Bromochloromethane	U		0.00126	0.00556	1	10/12/2019 16:22	WG1361818
Bromoform	U		0.00665	0.0278	1	10/12/2019 16:22	WG1361818
Bromomethane	U		0.00411	0.0139	1	10/12/2019 16:22	WG1361818
n-Butylbenzene	U		0.00427	0.0139	1	10/12/2019 16:22	WG1361818
sec-Butylbenzene	U		0.00281	0.0139	1	10/12/2019 16:22	WG1361818
tert-Butylbenzene	U		0.00172	0.00556	1	10/12/2019 16:22	WG1361818
Carbon disulfide	U		0.00451	0.0139	1	10/12/2019 16:22	WG1361818
Carbon tetrachloride	U		0.00120	0.00556	1	10/12/2019 16:22	WG1361818
Chlorobenzene	U		0.000637	0.00278	1	10/12/2019 16:22	WG1361818
Chlorodibromomethane	U		0.000500	0.00278	1	10/12/2019 16:22	WG1361818
Chloroethane	U		0.00120	0.00556	1	10/12/2019 16:22	WG1361818
Chloroform	0.000736 U	~~B J~~	0.000461	0.00278	1	10/12/2019 16:22	WG1361818
Chloromethane	U		0.00155	0.0139	1	10/12/2019 16:22	WG1361818
2-Chlorotoluene	U		0.00102	0.00278	1	10/12/2019 16:22	WG1361818
4-Chlorotoluene	U		0.00126	0.00556	1	10/12/2019 16:22	WG1361818
1,2-Dibromo-3-Chloropropane	U		0.00567	0.0278	1	10/12/2019 16:22	WG1361818
1,2-Dibromoethane	U		0.000584	0.00278	1	10/12/2019 16:22	WG1361818
Dibromomethane	U		0.00111	0.00556	1	10/12/2019 16:22	WG1361818
1,2-Dichlorobenzene	U		0.00161	0.00556	1	10/12/2019 16:22	WG1361818
1,3-Dichlorobenzene	U		0.00189	0.00556	1	10/12/2019 16:22	WG1361818
1,4-Dichlorobenzene	U		0.00219	0.00556	1	10/12/2019 16:22	WG1361818
Dichlorodifluoromethane	U		0.000910	0.00278	1	10/12/2019 16:22	WG1361818
1,1-Dichloroethane	U		0.000639	0.00278	1	10/12/2019 16:22	WG1361818
1,2-Dichloroethane	U		0.000528	0.00278	1	10/12/2019 16:22	WG1361818
1,1-Dichloroethene	U		0.000556	0.00278	1	10/12/2019 16:22	WG1361818
cis-1,2-Dichloroethene	U		0.000767	0.00278	1	10/12/2019 16:22	WG1361818
trans-1,2-Dichloroethene	U		0.00159	0.00556	1	10/12/2019 16:22	WG1361818
1,2-Dichloropropane	U		0.00141	0.00556	1	10/12/2019 16:22	WG1361818
1,1-Dichloropropene	U		0.000778	0.00278	1	10/12/2019 16:22	WG1361818
1,3-Dichloropropane	U		0.00195	0.00556	1	10/12/2019 16:22	WG1361818
cis-1,3-Dichloropropene	U		0.000754	0.00278	1	10/12/2019 16:22	WG1361818
trans-1,3-Dichloropropene	U		0.00170	0.00556	1	10/12/2019 16:22	WG1361818
trans-1,4-Dichloro-2-butene	U		0.00156	0.00556	1	10/12/2019 16:22	WG1361818
2,2-Dichloropropane	U		0.000882	0.00278	1	10/12/2019 16:22	WG1361818
Di-isopropyl ether	U		0.000389	0.00111	1	10/12/2019 16:22	WG1361818
Ethylbenzene	U		0.000589	0.00278	1	10/12/2019 16:22	WG1361818
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	10/12/2019 16:22	WG1361818
2-Hexanone	U		0.0111	0.0278	1	10/12/2019 16:22	WG1361818
n-Hexane	U		0.00118	0.00556	1	10/12/2019 16:22	WG1361818
Iodomethane	U		0.00673	0.0139	1	10/12/2019 16:22	WG1361818
Isopropylbenzene	U		0.000960	0.00278	1	10/12/2019 16:22	WG1361818
p-Isopropyltoluene	U		0.00259	0.00556	1	10/12/2019 16:22	WG1361818
2-Butanone (MEK)	0.0181 U	~~B J~~	0.0139	0.0278	1	10/12/2019 16:22	WG1361818
Methylene Chloride	U		0.00738	0.0278	1	10/12/2019 16:22	WG1361818
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	10/12/2019 16:22	WG1361818

JC 11/1/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000328	0.00111	1	10/12/2019 16:22	WG1361818
Naphthalene	U		0.00347	0.0139	1	10/12/2019 16:22	WG1361818
n-Propylbenzene	U		0.00131	0.00556	1	10/12/2019 16:22	WG1361818
Styrene	U		0.00304	0.0139	1	10/12/2019 16:22	WG1361818
1,1,1,2-Tetrachloroethane	U		0.000556	0.00278	1	10/12/2019 16:22	WG1361818
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	10/12/2019 16:22	WG1361818
1,1,2-Trichlorotrifluoroethane	U		0.000751	0.00278	1	10/12/2019 16:22	WG1361818
Tetrachloroethene	U		0.000778	0.00278	1	10/12/2019 16:22	WG1361818
Toluene	0.0157		0.00139	0.00556	1	10/12/2019 16:22	WG1361818
1,2,3-Trichlorobenzene	U		0.000695	0.00278	1	10/12/2019 16:22	WG1361818
1,2,4-Trichlorobenzene	U		0.00536	0.0139	1	10/12/2019 16:22	WG1361818
1,1,1-Trichloroethane	U		0.000306	0.00278	1	10/12/2019 16:22	WG1361818
1,1,2-Trichloroethane	U		0.000982	0.00278	1	10/12/2019 16:22	WG1361818
Trichloroethene	U		0.000445	0.00111	1	10/12/2019 16:22	WG1361818
Trichlorofluoromethane	U		0.000556	0.00278	1	10/12/2019 16:22	WG1361818
1,2,3-Trichloropropane	U		0.00567	0.0139	1	10/12/2019 16:22	WG1361818
1,2,4-Trimethylbenzene	U		0.00129	0.00556	1	10/12/2019 16:22	WG1361818
1,2,3-Trimethylbenzene	U		0.00128	0.00556	1	10/12/2019 16:22	WG1361818
1,3,5-Trimethylbenzene	U		0.00120	0.00556	1	10/12/2019 16:22	WG1361818
Vinyl acetate	U		0.00391	0.0139	1	10/12/2019 16:22	WG1361818
Vinyl chloride	U		0.000759	0.00278	1	10/12/2019 16:22	WG1361818
Xylenes, Total	U		0.00532	0.00723	1	10/12/2019 16:22	WG1361818
(S) Toluene-d8	*107*			*75.0-131*		*10/12/2019 16:22*	WG1361818
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/12/2019 16:22*	WG1361818
(S) 1,2-Dichloroethane-d4	*98.1*			*70.0-130*		*10/12/2019 16:22*	WG1361818

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MW-307-55

Collected date/time: 10/03/19 11:37

SAMPLE RESULTS - 11

L1147037

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.1		1	10/12/2019 16:51	WG1361912

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0149	0.0271	1	10/12/2019 16:43	WG1361818
Acrylonitrile	U		0.00206	0.0136	1	10/12/2019 16:43	WG1361818
Benzene	U		0.000434	0.00109	1	10/12/2019 16:43	WG1361818
Bromobenzene	U		0.00114	0.0136	1	10/12/2019 16:43	WG1361818
Bromodichloromethane	U		0.000856	0.00271	1	10/12/2019 16:43	WG1361818
Bromochloromethane	U		0.00123	0.00543	1	10/12/2019 16:43	WG1361818
Bromoform	U		0.00649	0.0271	1	10/12/2019 16:43	WG1361818
Bromomethane	U		0.00402	0.0136	1	10/12/2019 16:43	WG1361818
n-Butylbenzene	U		0.00417	0.0136	1	10/12/2019 16:43	WG1361818
sec-Butylbenzene	U		0.00275	0.0136	1	10/12/2019 16:43	WG1361818
tert-Butylbenzene	U		0.00168	0.00543	1	10/12/2019 16:43	WG1361818
Carbon disulfide	U		0.00441	0.0136	1	10/12/2019 16:43	WG1361818
Carbon tetrachloride	U		0.00117	0.00543	1	10/12/2019 16:43	WG1361818
Chlorobenzene	U		0.000622	0.00271	1	10/12/2019 16:43	WG1361818
Chlorodibromomethane	U		0.000489	0.00271	1	10/12/2019 16:43	WG1361818
Chloroethane	U		0.00117	0.00543	1	10/12/2019 16:43	WG1361818
Chloroform	U		0.000451	0.00271	1	10/12/2019 16:43	WG1361818
Chloromethane	U		0.00151	0.0136	1	10/12/2019 16:43	WG1361818
2-Chlorotoluene	U		0.000999	0.00271	1	10/12/2019 16:43	WG1361818
4-Chlorotoluene	U		0.00123	0.00543	1	10/12/2019 16:43	WG1361818
1,2-Dibromo-3-Chloropropane	U		0.00554	0.0271	1	10/12/2019 16:43	WG1361818
1,2-Dibromoethane	U		0.000570	0.00271	1	10/12/2019 16:43	WG1361818
Dibromomethane	U		0.00109	0.00543	1	10/12/2019 16:43	WG1361818
1,2-Dichlorobenzene	U		0.00157	0.00543	1	10/12/2019 16:43	WG1361818
1,3-Dichlorobenzene	U		0.00185	0.00543	1	10/12/2019 16:43	WG1361818
1,4-Dichlorobenzene	U		0.00214	0.00543	1	10/12/2019 16:43	WG1361818
Dichlorodifluoromethane	U		0.000888	0.00271	1	10/12/2019 16:43	WG1361818
1,1-Dichloroethane	U		0.000624	0.00271	1	10/12/2019 16:43	WG1361818
1,2-Dichloroethane	U		0.000516	0.00271	1	10/12/2019 16:43	WG1361818
1,1-Dichloroethene	U		0.000543	0.00271	1	10/12/2019 16:43	WG1361818
cis-1,2-Dichloroethene	U		0.000749	0.00271	1	10/12/2019 16:43	WG1361818
trans-1,2-Dichloroethene	U		0.00155	0.00543	1	10/12/2019 16:43	WG1361818
1,2-Dichloropropane	U		0.00138	0.00543	1	10/12/2019 16:43	WG1361818
1,1-Dichloropropene	U		0.000760	0.00271	1	10/12/2019 16:43	WG1361818
1,3-Dichloropropane	U		0.00190	0.00543	1	10/12/2019 16:43	WG1361818
cis-1,3-Dichloropropene	U		0.000736	0.00271	1	10/12/2019 16:43	WG1361818
trans-1,3-Dichloropropene	U		0.00166	0.00543	1	10/12/2019 16:43	WG1361818
trans-1,4-Dichloro-2-butene	U		0.00152	0.00543	1	10/12/2019 16:43	WG1361818
2,2-Dichloropropane	U		0.000861	0.00271	1	10/12/2019 16:43	WG1361818
Di-isopropyl ether	U		0.000380	0.00109	1	10/12/2019 16:43	WG1361818
Ethylbenzene	U		0.000575	0.00271	1	10/12/2019 16:43	WG1361818
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	10/12/2019 16:43	WG1361818
2-Hexanone	U		0.0109	0.0271	1	10/12/2019 16:43	WG1361818
n-Hexane	U		0.00115	0.00543	1	10/12/2019 16:43	WG1361818
Iodomethane	U		0.00657	0.0136	1	10/12/2019 16:43	WG1361818
Isopropylbenzene	U		0.000937	0.00271	1	10/12/2019 16:43	WG1361818
p-Isopropyltoluene	U		0.00253	0.00543	1	10/12/2019 16:43	WG1361818
2-Butanone (MEK)	0.0201 U	~~B J~~	0.0136	0.0271	1	10/12/2019 16:43	WG1361818
Methylene Chloride	U		0.00721	0.0271	1	10/12/2019 16:43	WG1361818
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0271	1	10/12/2019 16:43	WG1361818

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00109	1	10/12/2019 16:43	WG1361818
Naphthalene	U		0.00339	0.0136	1	10/12/2019 16:43	WG1361818
n-Propylbenzene	U		0.00128	0.00543	1	10/12/2019 16:43	WG1361818
Styrene	U		0.00296	0.0136	1	10/12/2019 16:43	WG1361818
1,1,1,2-Tetrachloroethane	U		0.000543	0.00271	1	10/12/2019 16:43	WG1361818
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	10/12/2019 16:43	WG1361818
1,1,2-Trichlorotrifluoroethane	U		0.000733	0.00271	1	10/12/2019 16:43	WG1361818
Tetrachloroethene	U		0.000760	0.00271	1	10/12/2019 16:43	WG1361818
Toluene	0.0104		0.00136	0.00543	1	10/12/2019 16:43	WG1361818
1,2,3-Trichlorobenzene	U		0.000679	0.00271	1	10/12/2019 16:43	WG1361818
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	10/12/2019 16:43	WG1361818
1,1,1-Trichloroethane	U		0.000299	0.00271	1	10/12/2019 16:43	WG1361818
1,1,2-Trichloroethane	U		0.000959	0.00271	1	10/12/2019 16:43	WG1361818
Trichloroethene	U		0.000434	0.00109	1	10/12/2019 16:43	WG1361818
Trichlorofluoromethane	U		0.000543	0.00271	1	10/12/2019 16:43	WG1361818
1,2,3-Trichloropropane	U		0.00554	0.0136	1	10/12/2019 16:43	WG1361818
1,2,4-Trimethylbenzene	U		0.00126	0.00543	1	10/12/2019 16:43	WG1361818
1,2,3-Trimethylbenzene	U		0.00125	0.00543	1	10/12/2019 16:43	WG1361818
1,3,5-Trimethylbenzene	U		0.00117	0.00543	1	10/12/2019 16:43	WG1361818
Vinyl acetate	U		0.00382	0.0136	1	10/12/2019 16:43	WG1361818
Vinyl chloride	U		0.000742	0.00271	1	10/12/2019 16:43	WG1361818
Xylenes, Total	U		0.00519	0.00706	1	10/12/2019 16:43	WG1361818
(S) Toluene-d8	*104*			*75.0-131*		*10/12/2019 16:43*	WG1361818
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/12/2019 16:43*	WG1361818
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*10/12/2019 16:43*	WG1361818

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.6		1	10/12/2019 16:51	WG1361912

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0209 U	J J0	0.0155	0.0282	1	10/15/2019 00:09	WG1362726
Acrylonitrile	U		0.00215	0.0141	1	10/15/2019 00:09	WG1362726
Benzene	U		0.000452	0.00113	1	10/15/2019 00:09	WG1362726
Bromobenzene	U		0.00119	0.0141	1	10/15/2019 00:09	WG1362726
Bromodichloromethane	U		0.000890	0.00282	1	10/15/2019 00:09	WG1362726
Bromochloromethane	U		0.00128	0.00565	1	10/15/2019 00:09	WG1362726
Bromoform	U		0.00675	0.0282	1	10/15/2019 00:09	WG1362726
Bromomethane	U		0.00418	0.0141	1	10/15/2019 00:09	WG1362726
n-Butylbenzene	U		0.00434	0.0141	1	10/15/2019 00:09	WG1362726
sec-Butylbenzene	U		0.00286	0.0141	1	10/15/2019 00:09	WG1362726
tert-Butylbenzene	U		0.00175	0.00565	1	10/15/2019 00:09	WG1362726
Carbon disulfide	U		0.00458	0.0141	1	10/15/2019 00:09	WG1362726
Carbon tetrachloride	U UJ	J0	0.00122	0.00565	1	10/15/2019 00:09	WG1362726
Chlorobenzene	U		0.000647	0.00282	1	10/15/2019 00:09	WG1362726
Chlorodibromomethane	U		0.000508	0.00282	1	10/15/2019 00:09	WG1362726
Chloroethane	U		0.00122	0.00565	1	10/15/2019 00:09	WG1362726
Chloroform	U		0.000469	0.00282	1	10/15/2019 00:09	WG1362726
Chloromethane	U		0.00157	0.0141	1	10/15/2019 00:09	WG1362726
2-Chlorotoluene	U		0.00104	0.00282	1	10/15/2019 00:09	WG1362726
4-Chlorotoluene	U		0.00128	0.00565	1	10/15/2019 00:09	WG1362726
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0282	1	10/15/2019 00:09	WG1362726
1,2-Dibromoethane	U		0.000593	0.00282	1	10/15/2019 00:09	WG1362726
Dibromomethane	U		0.00113	0.00565	1	10/15/2019 00:09	WG1362726
1,2-Dichlorobenzene	U		0.00164	0.00565	1	10/15/2019 00:09	WG1362726
1,3-Dichlorobenzene	U		0.00192	0.00565	1	10/15/2019 00:09	WG1362726
1,4-Dichlorobenzene	U		0.00222	0.00565	1	10/15/2019 00:09	WG1362726
Dichlorodifluoromethane	U		0.000924	0.00282	1	10/15/2019 00:09	WG1362726
1,1-Dichloroethane	U		0.000649	0.00282	1	10/15/2019 00:09	WG1362726
1,2-Dichloroethane	U		0.000536	0.00282	1	10/15/2019 00:09	WG1362726
1,1-Dichloroethene	U		0.000565	0.00282	1	10/15/2019 00:09	WG1362726
cis-1,2-Dichloroethene	U		0.000779	0.00282	1	10/15/2019 00:09	WG1362726
trans-1,2-Dichloroethene	U		0.00161	0.00565	1	10/15/2019 00:09	WG1362726
1,2-Dichloropropane	U		0.00143	0.00565	1	10/15/2019 00:09	WG1362726
1,1-Dichloropropene	U		0.000790	0.00282	1	10/15/2019 00:09	WG1362726
1,3-Dichloropropane	U		0.00198	0.00565	1	10/15/2019 00:09	WG1362726
cis-1,3-Dichloropropene	U		0.000766	0.00282	1	10/15/2019 00:09	WG1362726
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	10/15/2019 00:09	WG1362726
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	10/15/2019 00:09	WG1362726
2,2-Dichloropropane	U		0.000896	0.00282	1	10/15/2019 00:09	WG1362726
Di-isopropyl ether	U		0.000395	0.00113	1	10/15/2019 00:09	WG1362726
Ethylbenzene	U		0.000599	0.00282	1	10/15/2019 00:09	WG1362726
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	10/15/2019 00:09	WG1362726
2-Hexanone	U		0.0113	0.0282	1	10/15/2019 00:09	WG1362726
n-Hexane	U		0.00120	0.00565	1	10/15/2019 00:09	WG1362726
Iodomethane	U	~~J3 J4~~	0.00683	0.0141	1	10/15/2019 00:09	WG1362726
Isopropylbenzene	U		0.000975	0.00282	1	10/15/2019 00:09	WG1362726
p-Isopropyltoluene	U		0.00263	0.00565	1	10/15/2019 00:09	WG1362726
2-Butanone (MEK)	U		0.0141	0.0282	1	10/15/2019 00:09	WG1362726
Methylene Chloride	U		0.00750	0.0282	1	10/15/2019 00:09	WG1362726
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	10/15/2019 00:09	WG1362726

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	10/15/2019 00:09	WG1362726
Naphthalene	U		0.00352	0.0141	1	10/15/2019 00:09	WG1362726
n-Propylbenzene	U		0.00133	0.00565	1	10/15/2019 00:09	WG1362726
Styrene	U		0.00308	0.0141	1	10/15/2019 00:09	WG1362726
1,1,1,2-Tetrachloroethane	U		0.000565	0.00282	1	10/15/2019 00:09	WG1362726
1,1,2,2-Tetrachloroethane	U		0.000440	0.00282	1	10/15/2019 00:09	WG1362726
1,1,2-Trichlorotrifluoroethane	U		0.000762	0.00282	1	10/15/2019 00:09	WG1362726
Tetrachloroethene	U		0.000790	0.00282	1	10/15/2019 00:09	WG1362726
Toluene	0.00583		0.00141	0.00565	1	10/15/2019 00:09	WG1362726
1,2,3-Trichlorobenzene	U		0.000706	0.00282	1	10/15/2019 00:09	WG1362726
1,2,4-Trichlorobenzene	U		0.00544	0.0141	1	10/15/2019 00:09	WG1362726
1,1,1-Trichloroethane	U		0.000311	0.00282	1	10/15/2019 00:09	WG1362726
1,1,2-Trichloroethane	U		0.000997	0.00282	1	10/15/2019 00:09	WG1362726
Trichloroethene	U		0.000452	0.00113	1	10/15/2019 00:09	WG1362726
Trichlorofluoromethane	U		0.000565	0.00282	1	10/15/2019 00:09	WG1362726
1,2,3-Trichloropropane	U		0.00576	0.0141	1	10/15/2019 00:09	WG1362726
1,2,4-Trimethylbenzene	0.00217 U	~~B J~~	0.00131	0.00565	1	10/15/2019 00:09	WG1362726
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	10/15/2019 00:09	WG1362726
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	10/15/2019 00:09	WG1362726
Vinyl acetate	U UJ	J0	0.00397	0.0141	1	10/15/2019 00:09	WG1362726
Vinyl chloride	U		0.000771	0.00282	1	10/15/2019 00:09	WG1362726
Xylenes, Total	U		0.00540	0.00734	1	10/15/2019 00:09	WG1362726
(S) Toluene-d8	*108*			*75.0-131*		*10/15/2019 00:09*	WG1362726
(S) 4-Bromofluorobenzene	*97.3*			*67.0-138*		*10/15/2019 00:09*	WG1362726
(S) 1,2-Dichloroethane-d4	*93.4*			*70.0-130*		*10/15/2019 00:09*	WG1362726

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.0		1	10/12/2019 16:51	WG1361912

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0867 J	J0	0.0315	0.0575	2.14	10/15/2019 00:30	WG1362726
Acrylonitrile	U		0.00438	0.0288	2.14	10/15/2019 00:30	WG1362726
Benzene	U		0.000921	0.00230	2.14	10/15/2019 00:30	WG1362726
Bromobenzene	U		0.00242	0.0288	2.14	10/15/2019 00:30	WG1362726
Bromodichloromethane	U		0.00182	0.00575	2.14	10/15/2019 00:30	WG1362726
Bromochloromethane	U		0.00260	0.0115	2.14	10/15/2019 00:30	WG1362726
Bromoform	U		0.0138	0.0575	2.14	10/15/2019 00:30	WG1362726
Bromomethane	U		0.00852	0.0288	2.14	10/15/2019 00:30	WG1362726
n-Butylbenzene	U		0.00884	0.0288	2.14	10/15/2019 00:30	WG1362726
sec-Butylbenzene	U		0.00582	0.0288	2.14	10/15/2019 00:30	WG1362726
tert-Butylbenzene	U		0.00357	0.0115	2.14	10/15/2019 00:30	WG1362726
Carbon disulfide	U		0.00935	0.0288	2.14	10/15/2019 00:30	WG1362726
Carbon tetrachloride	U UJ	J0	0.00248	0.0115	2.14	10/15/2019 00:30	WG1362726
Chlorobenzene	U		0.00132	0.00575	2.14	10/15/2019 00:30	WG1362726
Chlorodibromomethane	U		0.00104	0.00575	2.14	10/15/2019 00:30	WG1362726
Chloroethane	U		0.00248	0.0115	2.14	10/15/2019 00:30	WG1362726
Chloroform	U		0.000955	0.00575	2.14	10/15/2019 00:30	WG1362726
Chloromethane	U		0.00319	0.0288	2.14	10/15/2019 00:30	WG1362726
2-Chlorotoluene	U		0.00212	0.00575	2.14	10/15/2019 00:30	WG1362726
4-Chlorotoluene	U		0.00260	0.0115	2.14	10/15/2019 00:30	WG1362726
1,2-Dibromo-3-Chloropropane	U		0.0117	0.0575	2.14	10/15/2019 00:30	WG1362726
1,2-Dibromoethane	U		0.00120	0.00575	2.14	10/15/2019 00:30	WG1362726
Dibromomethane	U		0.00230	0.0115	2.14	10/15/2019 00:30	WG1362726
1,2-Dichlorobenzene	U		0.00333	0.0115	2.14	10/15/2019 00:30	WG1362726
1,3-Dichlorobenzene	U		0.00392	0.0115	2.14	10/15/2019 00:30	WG1362726
1,4-Dichlorobenzene	U		0.00454	0.0115	2.14	10/15/2019 00:30	WG1362726
Dichlorodifluoromethane	U		0.00188	0.00575	2.14	10/15/2019 00:30	WG1362726
1,1-Dichloroethane	U		0.00132	0.00575	2.14	10/15/2019 00:30	WG1362726
1,2-Dichloroethane	U		0.00110	0.00575	2.14	10/15/2019 00:30	WG1362726
1,1-Dichloroethene	U		0.00115	0.00575	2.14	10/15/2019 00:30	WG1362726
cis-1,2-Dichloroethene	U		0.00159	0.00575	2.14	10/15/2019 00:30	WG1362726
trans-1,2-Dichloroethene	U		0.00329	0.0115	2.14	10/15/2019 00:30	WG1362726
1,2-Dichloropropane	U		0.00293	0.0115	2.14	10/15/2019 00:30	WG1362726
1,1-Dichloropropene	U		0.00161	0.00575	2.14	10/15/2019 00:30	WG1362726
1,3-Dichloropropane	U		0.00403	0.0115	2.14	10/15/2019 00:30	WG1362726
cis-1,3-Dichloropropene	U		0.00156	0.00575	2.14	10/15/2019 00:30	WG1362726
trans-1,3-Dichloropropene	U		0.00352	0.0115	2.14	10/15/2019 00:30	WG1362726
trans-1,4-Dichloro-2-butene	U		0.00323	0.0115	2.14	10/15/2019 00:30	WG1362726
2,2-Dichloropropane	U		0.00183	0.00575	2.14	10/15/2019 00:30	WG1362726
Di-isopropyl ether	U		0.000806	0.00230	2.14	10/15/2019 00:30	WG1362726
Ethylbenzene	0.00148	J	0.00122	0.00575	2.14	10/15/2019 00:30	WG1362726
Hexachloro-1,3-butadiene	U		0.0293	0.0575	2.14	10/15/2019 00:30	WG1362726
2-Hexanone	U		0.0230	0.0575	2.14	10/15/2019 00:30	WG1362726
n-Hexane	0.0272		0.00244	0.0115	2.14	10/15/2019 00:30	WG1362726
Iodomethane	U	~~J3 J4~~	0.0139	0.0288	2.14	10/15/2019 00:30	WG1362726
Isopropylbenzene	U		0.00199	0.00575	2.14	10/15/2019 00:30	WG1362726
p-Isopropyltoluene	U		0.00537	0.0115	2.14	10/15/2019 00:30	WG1362726
2-Butanone (MEK)	U		0.0288	0.0575	2.14	10/15/2019 00:30	WG1362726
Methylene Chloride	U		0.0153	0.0575	2.14	10/15/2019 00:30	WG1362726
4-Methyl-2-pentanone (MIBK)	U		0.0230	0.0575	2.14	10/15/2019 00:30	WG1362726

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000679	0.00230	2.14	10/15/2019 00:30	WG1362726
Naphthalene	U		0.00719	0.0288	2.14	10/15/2019 00:30	WG1362726
n-Propylbenzene	U		0.00272	0.0115	2.14	10/15/2019 00:30	WG1362726
Styrene	U		0.00628	0.0288	2.14	10/15/2019 00:30	WG1362726
1,1,1,2-Tetrachloroethane	U		0.00115	0.00575	2.14	10/15/2019 00:30	WG1362726
1,1,2,2-Tetrachloroethane	U		0.000898	0.00575	2.14	10/15/2019 00:30	WG1362726
1,1,2-Trichlorotrifluoroethane	U		0.00155	0.00575	2.14	10/15/2019 00:30	WG1362726
Tetrachloroethene	U		0.00161	0.00575	2.14	10/15/2019 00:30	WG1362726
Toluene	0.0687		0.00288	0.0115	2.14	10/15/2019 00:30	WG1362726
1,2,3-Trichlorobenzene	U		0.00144	0.00575	2.14	10/15/2019 00:30	WG1362726
1,2,4-Trichlorobenzene	U		0.0111	0.0288	2.14	10/15/2019 00:30	WG1362726
1,1,1-Trichloroethane	U		0.000634	0.00575	2.14	10/15/2019 00:30	WG1362726
1,1,2-Trichloroethane	U		0.00203	0.00575	2.14	10/15/2019 00:30	WG1362726
Trichloroethene	U		0.000921	0.00230	2.14	10/15/2019 00:30	WG1362726
Trichlorofluoromethane	U		0.00115	0.00575	2.14	10/15/2019 00:30	WG1362726
1,2,3-Trichloropropane	U		0.0117	0.0288	2.14	10/15/2019 00:30	WG1362726
1,2,4-Trimethylbenzene	0.00355	U ~~B J~~	0.00267	0.0115	2.14	10/15/2019 00:30	WG1362726
1,2,3-Trimethylbenzene	U		0.00265	0.0115	2.14	10/15/2019 00:30	WG1362726
1,3,5-Trimethylbenzene	U		0.00248	0.0115	2.14	10/15/2019 00:30	WG1362726
Vinyl acetate	U	UJ J0	0.00810	0.0288	2.14	10/15/2019 00:30	WG1362726
Vinyl chloride	U		0.00157	0.00575	2.14	10/15/2019 00:30	WG1362726
Xylenes, Total	U		0.0110	0.0150	2.14	10/15/2019 00:30	WG1362726
(S) Toluene-d8	*107*			*75.0-131*		*10/15/2019 00:30*	WG1362726
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*		*10/15/2019 00:30*	WG1362726
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*10/15/2019 00:30*	WG1362726

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 11/1/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.8		1	10/12/2019 16:15	WG1361913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.242 U	J J0	0.156	0.286	10.4	10/15/2019 00:52	WG1362726
Acrylonitrile	U		0.0218	0.143	10.4	10/15/2019 00:52	WG1362726
Benzene	U		0.00458	0.0115	10.4	10/15/2019 00:52	WG1362726
Bromobenzene	U		0.0120	0.143	10.4	10/15/2019 00:52	WG1362726
Bromodichloromethane	U		0.00903	0.0286	10.4	10/15/2019 00:52	WG1362726
Bromochloromethane	U		0.0130	0.0573	10.4	10/15/2019 00:52	WG1362726
Bromoform	U		0.0685	0.286	10.4	10/15/2019 00:52	WG1362726
Bromomethane	U		0.0424	0.143	10.4	10/15/2019 00:52	WG1362726
n-Butylbenzene	U		0.0440	0.143	10.4	10/15/2019 00:52	WG1362726
sec-Butylbenzene	U		0.0290	0.143	10.4	10/15/2019 00:52	WG1362726
tert-Butylbenzene	U		0.0177	0.0573	10.4	10/15/2019 00:52	WG1362726
Carbon disulfide	U		0.0465	0.143	10.4	10/15/2019 00:52	WG1362726
Carbon tetrachloride	U UJ	J0	0.0123	0.0573	10.4	10/15/2019 00:52	WG1362726
Chlorobenzene	U		0.00657	0.0286	10.4	10/15/2019 00:52	WG1362726
Chlorodibromomethane	U		0.00516	0.0286	10.4	10/15/2019 00:52	WG1362726
Chloroethane	U		0.0123	0.0573	10.4	10/15/2019 00:52	WG1362726
Chloroform	U		0.00476	0.0286	10.4	10/15/2019 00:52	WG1362726
Chloromethane	U		0.0160	0.143	10.4	10/15/2019 00:52	WG1362726
2-Chlorotoluene	U		0.0105	0.0286	10.4	10/15/2019 00:52	WG1362726
4-Chlorotoluene	U		0.0130	0.0573	10.4	10/15/2019 00:52	WG1362726
1,2-Dibromo-3-Chloropropane	U		0.0584	0.286	10.4	10/15/2019 00:52	WG1362726
1,2-Dibromoethane	U		0.00601	0.0286	10.4	10/15/2019 00:52	WG1362726
Dibromomethane	U		0.0115	0.0573	10.4	10/15/2019 00:52	WG1362726
1,2-Dichlorobenzene	U		0.0166	0.0573	10.4	10/15/2019 00:52	WG1362726
1,3-Dichlorobenzene	U		0.0195	0.0573	10.4	10/15/2019 00:52	WG1362726
1,4-Dichlorobenzene	U		0.0226	0.0573	10.4	10/15/2019 00:52	WG1362726
Dichlorodifluoromethane	U		0.00937	0.0286	10.4	10/15/2019 00:52	WG1362726
1,1-Dichloroethane	U		0.00659	0.0286	10.4	10/15/2019 00:52	WG1362726
1,2-Dichloroethane	U		0.00544	0.0286	10.4	10/15/2019 00:52	WG1362726
1,1-Dichloroethene	U		0.00573	0.0286	10.4	10/15/2019 00:52	WG1362726
cis-1,2-Dichloroethene	U		0.00791	0.0286	10.4	10/15/2019 00:52	WG1362726
trans-1,2-Dichloroethene	U		0.0164	0.0573	10.4	10/15/2019 00:52	WG1362726
1,2-Dichloropropane	U		0.0145	0.0573	10.4	10/15/2019 00:52	WG1362726
1,1-Dichloropropene	U		0.00802	0.0286	10.4	10/15/2019 00:52	WG1362726
1,3-Dichloropropane	U		0.0200	0.0573	10.4	10/15/2019 00:52	WG1362726
cis-1,3-Dichloropropene	U		0.00777	0.0286	10.4	10/15/2019 00:52	WG1362726
trans-1,3-Dichloropropene	U		0.0175	0.0573	10.4	10/15/2019 00:52	WG1362726
trans-1,4-Dichloro-2-butene	U		0.0161	0.0573	10.4	10/15/2019 00:52	WG1362726
2,2-Dichloropropane	U		0.00909	0.0286	10.4	10/15/2019 00:52	WG1362726
Di-isopropyl ether	U		0.00401	0.0115	10.4	10/15/2019 00:52	WG1362726
Ethylbenzene	U		0.00607	0.0286	10.4	10/15/2019 00:52	WG1362726
Hexachloro-1,3-butadiene	U		0.145	0.286	10.4	10/15/2019 00:52	WG1362726
2-Hexanone	U		0.115	0.286	10.4	10/15/2019 00:52	WG1362726
n-Hexane	U		0.0121	0.0573	10.4	10/15/2019 00:52	WG1362726
Iodomethane	U	~~J3 J4~~	0.0693	0.143	10.4	10/15/2019 00:52	WG1362726
Isopropylbenzene	U		0.00989	0.0286	10.4	10/15/2019 00:52	WG1362726
p-Isopropyltoluene	U		0.0267	0.0573	10.4	10/15/2019 00:52	WG1362726
2-Butanone (MEK)	U		0.143	0.286	10.4	10/15/2019 00:52	WG1362726
Methylene Chloride	U		0.0761	0.286	10.4	10/15/2019 00:52	WG1362726
4-Methyl-2-pentanone (MIBK)	U		0.115	0.286	10.4	10/15/2019 00:52	WG1362726

JC 11/1/19

MW-307-70
Collected date/time: 10/03/19 12:05

SAMPLE RESULTS - 14
L1147037

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00338	0.0115	10.4	10/15/2019 00:52	WG1362726
Naphthalene	U		0.0357	0.143	10.4	10/15/2019 00:52	WG1362726
n-Propylbenzene	U		0.0135	0.0573	10.4	10/15/2019 00:52	WG1362726
Styrene	U		0.0313	0.143	10.4	10/15/2019 00:52	WG1362726
1,1,1,2-Tetrachloroethane	U		0.00573	0.0286	10.4	10/15/2019 00:52	WG1362726
1,1,2,2-Tetrachloroethane	U		0.00447	0.0286	10.4	10/15/2019 00:52	WG1362726
1,1,2-Trichlorotrifluoroethane	U		0.00773	0.0286	10.4	10/15/2019 00:52	WG1362726
Tetrachloroethene	U		0.00802	0.0286	10.4	10/15/2019 00:52	WG1362726
Toluene	0.0561	J	0.0143	0.0573	10.4	10/15/2019 00:52	WG1362726
1,2,3-Trichlorobenzene	U		0.00716	0.0286	10.4	10/15/2019 00:52	WG1362726
1,2,4-Trichlorobenzene	U		0.0552	0.143	10.4	10/15/2019 00:52	WG1362726
1,1,1-Trichloroethane	U		0.00315	0.0286	10.4	10/15/2019 00:52	WG1362726
1,1,2-Trichloroethane	U		0.0101	0.0286	10.4	10/15/2019 00:52	WG1362726
Trichloroethene	U		0.00458	0.0115	10.4	10/15/2019 00:52	WG1362726
Trichlorofluoromethane	U		0.00573	0.0286	10.4	10/15/2019 00:52	WG1362726
1,2,3-Trichloropropane	U		0.0584	0.143	10.4	10/15/2019 00:52	WG1362726
1,2,4-Trimethylbenzene	U		0.0133	0.0573	10.4	10/15/2019 00:52	WG1362726
1,2,3-Trimethylbenzene	U		0.0132	0.0573	10.4	10/15/2019 00:52	WG1362726
1,3,5-Trimethylbenzene	U		0.0123	0.0573	10.4	10/15/2019 00:52	WG1362726
Vinyl acetate	U UJ	J0	0.0403	0.143	10.4	10/15/2019 00:52	WG1362726
Vinyl chloride	U		0.00782	0.0286	10.4	10/15/2019 00:52	WG1362726
Xylenes, Total	U		0.0547	0.0745	10.4	10/15/2019 00:52	WG1362726
(S) Toluene-d8	*108*			*75.0-131*		*10/15/2019 00:52*	WG1362726
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*10/15/2019 00:52*	WG1362726
(S) 1,2-Dichloroethane-d4	*98.1*			*70.0-130*		*10/15/2019 00:52*	WG1362726

Sample Narrative:

L1147037-14 WG1362726: Dilution due to limited sample volume.

JC 11/1/19

MW-307-75

Collected date/time: 10/03/19 12:28

SAMPLE RESULTS - 15

L1147037

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.7		1	10/12/2019 16:15	WG1361913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0351	J	J0	0.0151	0.0276	1	10/15/2019 01:13	WG1362726
Acrylonitrile	U			0.00210	0.0138	1	10/15/2019 01:13	WG1362726
Benzene	U			0.000441	0.00110	1	10/15/2019 01:13	WG1362726
Bromobenzene	U			0.00116	0.0138	1	10/15/2019 01:13	WG1362726
Bromodichloromethane	U			0.000869	0.00276	1	10/15/2019 01:13	WG1362726
Bromochloromethane	U			0.00125	0.00551	1	10/15/2019 01:13	WG1362726
Bromoform	U			0.00659	0.0276	1	10/15/2019 01:13	WG1362726
Bromomethane	U			0.00408	0.0138	1	10/15/2019 01:13	WG1362726
n-Butylbenzene	U			0.00423	0.0138	1	10/15/2019 01:13	WG1362726
sec-Butylbenzene	U			0.00279	0.0138	1	10/15/2019 01:13	WG1362726
tert-Butylbenzene	U			0.00171	0.00551	1	10/15/2019 01:13	WG1362726
Carbon disulfide	U			0.00448	0.0138	1	10/15/2019 01:13	WG1362726
Carbon tetrachloride	U	UJ	J0	0.00119	0.00551	1	10/15/2019 01:13	WG1362726
Chlorobenzene	U			0.000632	0.00276	1	10/15/2019 01:13	WG1362726
Chlorodibromomethane	U			0.000496	0.00276	1	10/15/2019 01:13	WG1362726
Chloroethane	U			0.00119	0.00551	1	10/15/2019 01:13	WG1362726
Chloroform	U			0.000458	0.00276	1	10/15/2019 01:13	WG1362726
Chloromethane	U			0.00153	0.0138	1	10/15/2019 01:13	WG1362726
2-Chlorotoluene	U			0.00101	0.00276	1	10/15/2019 01:13	WG1362726
4-Chlorotoluene	U			0.00125	0.00551	1	10/15/2019 01:13	WG1362726
1,2-Dibromo-3-Chloropropane	U			0.00562	0.0276	1	10/15/2019 01:13	WG1362726
1,2-Dibromoethane	U			0.000579	0.00276	1	10/15/2019 01:13	WG1362726
Dibromomethane	U			0.00110	0.00551	1	10/15/2019 01:13	WG1362726
1,2-Dichlorobenzene	U			0.00160	0.00551	1	10/15/2019 01:13	WG1362726
1,3-Dichlorobenzene	U			0.00187	0.00551	1	10/15/2019 01:13	WG1362726
1,4-Dichlorobenzene	U			0.00217	0.00551	1	10/15/2019 01:13	WG1362726
Dichlorodifluoromethane	U			0.000902	0.00276	1	10/15/2019 01:13	WG1362726
1,1-Dichloroethane	U			0.000634	0.00276	1	10/15/2019 01:13	WG1362726
1,2-Dichloroethane	U			0.000524	0.00276	1	10/15/2019 01:13	WG1362726
1,1-Dichloroethene	U			0.000551	0.00276	1	10/15/2019 01:13	WG1362726
cis-1,2-Dichloroethene	U			0.000761	0.00276	1	10/15/2019 01:13	WG1362726
trans-1,2-Dichloroethene	U			0.00158	0.00551	1	10/15/2019 01:13	WG1362726
1,2-Dichloropropane	U			0.00140	0.00551	1	10/15/2019 01:13	WG1362726
1,1-Dichloropropene	U			0.000772	0.00276	1	10/15/2019 01:13	WG1362726
1,3-Dichloropropane	U			0.00193	0.00551	1	10/15/2019 01:13	WG1362726
cis-1,3-Dichloropropene	U			0.000748	0.00276	1	10/15/2019 01:13	WG1362726
trans-1,3-Dichloropropene	U			0.00169	0.00551	1	10/15/2019 01:13	WG1362726
trans-1,4-Dichloro-2-butene	U			0.00154	0.00551	1	10/15/2019 01:13	WG1362726
2,2-Dichloropropane	U			0.000875	0.00276	1	10/15/2019 01:13	WG1362726
Di-isopropyl ether	U			0.000386	0.00110	1	10/15/2019 01:13	WG1362726
Ethylbenzene	U			0.000584	0.00276	1	10/15/2019 01:13	WG1362726
Hexachloro-1,3-butadiene	U			0.0140	0.0276	1	10/15/2019 01:13	WG1362726
2-Hexanone	U			0.0110	0.0276	1	10/15/2019 01:13	WG1362726
n-Hexane	0.0176			0.00117	0.00551	1	10/15/2019 01:13	WG1362726
Iodomethane	U		~~J3 J4~~	0.00667	0.0138	1	10/15/2019 01:13	WG1362726
Isopropylbenzene	U			0.000952	0.00276	1	10/15/2019 01:13	WG1362726
p-Isopropyltoluene	U			0.00257	0.00551	1	10/15/2019 01:13	WG1362726
2-Butanone (MEK)	0.0174	U	~~B J~~	0.0138	0.0276	1	10/15/2019 01:13	WG1362726
Methylene Chloride	U			0.00732	0.0276	1	10/15/2019 01:13	WG1362726
4-Methyl-2-pentanone (MIBK)	U			0.0110	0.0276	1	10/15/2019 01:13	WG1362726

JC 11/1/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	10/15/2019 01:13	WG1362726
Naphthalene	U		0.00344	0.0138	1	10/15/2019 01:13	WG1362726
n-Propylbenzene	U		0.00130	0.00551	1	10/15/2019 01:13	WG1362726
Styrene	U		0.00301	0.0138	1	10/15/2019 01:13	WG1362726
1,1,1,2-Tetrachloroethane	U		0.000551	0.00276	1	10/15/2019 01:13	WG1362726
1,1,2,2-Tetrachloroethane	U		0.000430	0.00276	1	10/15/2019 01:13	WG1362726
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00276	1	10/15/2019 01:13	WG1362726
Tetrachloroethene	U		0.000772	0.00276	1	10/15/2019 01:13	WG1362726
Toluene	0.0160		0.00138	0.00551	1	10/15/2019 01:13	WG1362726
1,2,3-Trichlorobenzene	U		0.000689	0.00276	1	10/15/2019 01:13	WG1362726
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	10/15/2019 01:13	WG1362726
1,1,1-Trichloroethane	U		0.000303	0.00276	1	10/15/2019 01:13	WG1362726
1,1,2-Trichloroethane	U		0.000974	0.00276	1	10/15/2019 01:13	WG1362726
Trichloroethene	U		0.000441	0.00110	1	10/15/2019 01:13	WG1362726
Trichlorofluoromethane	U		0.000551	0.00276	1	10/15/2019 01:13	WG1362726
1,2,3-Trichloropropane	U		0.00562	0.0138	1	10/15/2019 01:13	WG1362726
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	10/15/2019 01:13	WG1362726
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	10/15/2019 01:13	WG1362726
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	10/15/2019 01:13	WG1362726
Vinyl acetate	U UJ	J0	0.00388	0.0138	1	10/15/2019 01:13	WG1362726
Vinyl chloride	U		0.000753	0.00276	1	10/15/2019 01:13	WG1362726
Xylenes, Total	U		0.00527	0.00717	1	10/15/2019 01:13	WG1362726
(S) Toluene-d8	*104*			*75.0-131*		*10/15/2019 01:13*	WG1362726
(S) 4-Bromofluorobenzene	*96.2*			*67.0-138*		*10/15/2019 01:13*	WG1362726
(S) 1,2-Dichloroethane-d4	*93.8*			*70.0-130*		*10/15/2019 01:13*	WG1362726

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.1		1	10/12/2019 16:15	WG1361913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0731	J J0	0.0160	0.0293	1.03	10/15/2019 01:35	WG1362726
Acrylonitrile	U		0.00222	0.0146	1.03	10/15/2019 01:35	WG1362726
Benzene	U		0.000467	0.00117	1.03	10/15/2019 01:35	WG1362726
Bromobenzene	U		0.00123	0.0146	1.03	10/15/2019 01:35	WG1362726
Bromodichloromethane	U		0.000921	0.00293	1.03	10/15/2019 01:35	WG1362726
Bromochloromethane	U		0.00132	0.00584	1.03	10/15/2019 01:35	WG1362726
Bromoform	U		0.00699	0.0293	1.03	10/15/2019 01:35	WG1362726
Bromomethane	U		0.00432	0.0146	1.03	10/15/2019 01:35	WG1362726
n-Butylbenzene	U		0.00449	0.0146	1.03	10/15/2019 01:35	WG1362726
sec-Butylbenzene	U		0.00296	0.0146	1.03	10/15/2019 01:35	WG1362726
tert-Butylbenzene	U		0.00182	0.00584	1.03	10/15/2019 01:35	WG1362726
Carbon disulfide	U		0.00474	0.0146	1.03	10/15/2019 01:35	WG1362726
Carbon tetrachloride	U	UJ J0	0.00126	0.00584	1.03	10/15/2019 01:35	WG1362726
Chlorobenzene	U		0.000669	0.00293	1.03	10/15/2019 01:35	WG1362726
Chlorodibromomethane	U		0.000526	0.00293	1.03	10/15/2019 01:35	WG1362726
Chloroethane	U		0.00126	0.00584	1.03	10/15/2019 01:35	WG1362726
Chloroform	U		0.000484	0.00293	1.03	10/15/2019 01:35	WG1362726
Chloromethane	U		0.00162	0.0146	1.03	10/15/2019 01:35	WG1362726
2-Chlorotoluene	U		0.00108	0.00293	1.03	10/15/2019 01:35	WG1362726
4-Chlorotoluene	U		0.00132	0.00584	1.03	10/15/2019 01:35	WG1362726
1,2-Dibromo-3-Chloropropane	U		0.00596	0.0293	1.03	10/15/2019 01:35	WG1362726
1,2-Dibromoethane	U		0.000614	0.00293	1.03	10/15/2019 01:35	WG1362726
Dibromomethane	U		0.00117	0.00584	1.03	10/15/2019 01:35	WG1362726
1,2-Dichlorobenzene	U		0.00169	0.00584	1.03	10/15/2019 01:35	WG1362726
1,3-Dichlorobenzene	U		0.00199	0.00584	1.03	10/15/2019 01:35	WG1362726
1,4-Dichlorobenzene	U		0.00230	0.00584	1.03	10/15/2019 01:35	WG1362726
Dichlorodifluoromethane	U		0.000956	0.00293	1.03	10/15/2019 01:35	WG1362726
1,1-Dichloroethane	U		0.000672	0.00293	1.03	10/15/2019 01:35	WG1362726
1,2-Dichloroethane	U		0.000555	0.00293	1.03	10/15/2019 01:35	WG1362726
1,1-Dichloroethene	U		0.000584	0.00293	1.03	10/15/2019 01:35	WG1362726
cis-1,2-Dichloroethene	U		0.000807	0.00293	1.03	10/15/2019 01:35	WG1362726
trans-1,2-Dichloroethene	U		0.00167	0.00584	1.03	10/15/2019 01:35	WG1362726
1,2-Dichloropropane	U		0.00149	0.00584	1.03	10/15/2019 01:35	WG1362726
1,1-Dichloropropene	U		0.000818	0.00293	1.03	10/15/2019 01:35	WG1362726
1,3-Dichloropropane	U		0.00204	0.00584	1.03	10/15/2019 01:35	WG1362726
cis-1,3-Dichloropropene	U		0.000792	0.00293	1.03	10/15/2019 01:35	WG1362726
trans-1,3-Dichloropropene	U		0.00179	0.00584	1.03	10/15/2019 01:35	WG1362726
trans-1,4-Dichloro-2-butene	U		0.00163	0.00584	1.03	10/15/2019 01:35	WG1362726
2,2-Dichloropropane	U		0.000927	0.00293	1.03	10/15/2019 01:35	WG1362726
Di-isopropyl ether	U		0.000410	0.00117	1.03	10/15/2019 01:35	WG1362726
Ethylbenzene	U		0.000619	0.00293	1.03	10/15/2019 01:35	WG1362726
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1.03	10/15/2019 01:35	WG1362726
2-Hexanone	U		0.0117	0.0293	1.03	10/15/2019 01:35	WG1362726
n-Hexane	0.0315		0.00124	0.00584	1.03	10/15/2019 01:35	WG1362726
Iodomethane	U	~~J3 J4~~	0.00707	0.0146	1.03	10/15/2019 01:35	WG1362726
Isopropylbenzene	U		0.00101	0.00293	1.03	10/15/2019 01:35	WG1362726
p-Isopropyltoluene	U		0.00272	0.00584	1.03	10/15/2019 01:35	WG1362726
2-Butanone (MEK)	0.0201	U ~~B J~~	0.0146	0.0293	1.03	10/15/2019 01:35	WG1362726
Methylene Chloride	U		0.00776	0.0293	1.03	10/15/2019 01:35	WG1362726
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1.03	10/15/2019 01:35	WG1362726

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1.03	10/15/2019 01:35	WG1362726
Naphthalene	U		0.00364	0.0146	1.03	10/15/2019 01:35	WG1362726
n-Propylbenzene	U		0.00138	0.00584	1.03	10/15/2019 01:35	WG1362726
Styrene	U		0.00319	0.0146	1.03	10/15/2019 01:35	WG1362726
1,1,1,2-Tetrachloroethane	U		0.000584	0.00293	1.03	10/15/2019 01:35	WG1362726
1,1,2,2-Tetrachloroethane	U		0.000456	0.00293	1.03	10/15/2019 01:35	WG1362726
1,1,2-Trichlorotrifluoroethane	U		0.000788	0.00293	1.03	10/15/2019 01:35	WG1362726
Tetrachloroethene	U		0.000818	0.00293	1.03	10/15/2019 01:35	WG1362726
Toluene	0.0261		0.00146	0.00584	1.03	10/15/2019 01:35	WG1362726
1,2,3-Trichlorobenzene	U		0.000731	0.00293	1.03	10/15/2019 01:35	WG1362726
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1.03	10/15/2019 01:35	WG1362726
1,1,1-Trichloroethane	U		0.000321	0.00293	1.03	10/15/2019 01:35	WG1362726
1,1,2-Trichloroethane	U		0.00103	0.00293	1.03	10/15/2019 01:35	WG1362726
Trichloroethene	U		0.000467	0.00117	1.03	10/15/2019 01:35	WG1362726
Trichlorofluoromethane	U		0.000584	0.00293	1.03	10/15/2019 01:35	WG1362726
1,2,3-Trichloropropane	U		0.00596	0.0146	1.03	10/15/2019 01:35	WG1362726
1,2,4-Trimethylbenzene	0.00186 U	B J	0.00135	0.00584	1.03	10/15/2019 01:35	WG1362726
1,2,3-Trimethylbenzene	U		0.00134	0.00584	1.03	10/15/2019 01:35	WG1362726
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1.03	10/15/2019 01:35	WG1362726
Vinyl acetate	U UJ	J0	0.00412	0.0146	1.03	10/15/2019 01:35	WG1362726
Vinyl chloride	U		0.000798	0.00293	1.03	10/15/2019 01:35	WG1362726
Xylenes, Total	U		0.00558	0.00760	1.03	10/15/2019 01:35	WG1362726
(S) Toluene-d8	*104*			*75.0-131*		*10/15/2019 01:35*	WG1362726
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*10/15/2019 01:35*	WG1362726
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*		*10/15/2019 01:35*	WG1362726

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.3		1	10/12/2019 16:15	WG1361913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0667 J	J0	0.0157	0.0286	1	10/15/2019 01:56	WG1362726
Acrylonitrile	U		0.00218	0.0143	1	10/15/2019 01:56	WG1362726
Benzene	0.000836	J	0.000458	0.00115	1	10/15/2019 01:56	WG1362726
Bromobenzene	U		0.00120	0.0143	1	10/15/2019 01:56	WG1362726
Bromodichloromethane	U		0.000903	0.00286	1	10/15/2019 01:56	WG1362726
Bromochloromethane	U		0.00129	0.00573	1	10/15/2019 01:56	WG1362726
Bromoform	U		0.00685	0.0286	1	10/15/2019 01:56	WG1362726
Bromomethane	U		0.00424	0.0143	1	10/15/2019 01:56	WG1362726
n-Butylbenzene	U		0.00440	0.0143	1	10/15/2019 01:56	WG1362726
sec-Butylbenzene	U		0.00290	0.0143	1	10/15/2019 01:56	WG1362726
tert-Butylbenzene	U		0.00178	0.00573	1	10/15/2019 01:56	WG1362726
Carbon disulfide	0.00864	J	0.00465	0.0143	1	10/15/2019 01:56	WG1362726
Carbon tetrachloride	U UJ	J0	0.00124	0.00573	1	10/15/2019 01:56	WG1362726
Chlorobenzene	U		0.000656	0.00286	1	10/15/2019 01:56	WG1362726
Chlorodibromomethane	U		0.000516	0.00286	1	10/15/2019 01:56	WG1362726
Chloroethane	U		0.00124	0.00573	1	10/15/2019 01:56	WG1362726
Chloroform	U		0.000475	0.00286	1	10/15/2019 01:56	WG1362726
Chloromethane	U		0.00159	0.0143	1	10/15/2019 01:56	WG1362726
2-Chlorotoluene	U		0.00105	0.00286	1	10/15/2019 01:56	WG1362726
4-Chlorotoluene	U		0.00129	0.00573	1	10/15/2019 01:56	WG1362726
1,2-Dibromo-3-Chloropropane	U		0.00584	0.0286	1	10/15/2019 01:56	WG1362726
1,2-Dibromoethane	U		0.000601	0.00286	1	10/15/2019 01:56	WG1362726
Dibromomethane	U		0.00115	0.00573	1	10/15/2019 01:56	WG1362726
1,2-Dichlorobenzene	U		0.00166	0.00573	1	10/15/2019 01:56	WG1362726
1,3-Dichlorobenzene	U		0.00195	0.00573	1	10/15/2019 01:56	WG1362726
1,4-Dichlorobenzene	U		0.00226	0.00573	1	10/15/2019 01:56	WG1362726
Dichlorodifluoromethane	U		0.000937	0.00286	1	10/15/2019 01:56	WG1362726
1,1-Dichloroethane	U		0.000659	0.00286	1	10/15/2019 01:56	WG1362726
1,2-Dichloroethane	U		0.000544	0.00286	1	10/15/2019 01:56	WG1362726
1,1-Dichloroethene	U		0.000573	0.00286	1	10/15/2019 01:56	WG1362726
cis-1,2-Dichloroethene	U		0.000790	0.00286	1	10/15/2019 01:56	WG1362726
trans-1,2-Dichloroethene	U		0.00164	0.00573	1	10/15/2019 01:56	WG1362726
1,2-Dichloropropane	U		0.00145	0.00573	1	10/15/2019 01:56	WG1362726
1,1-Dichloropropene	U		0.000802	0.00286	1	10/15/2019 01:56	WG1362726
1,3-Dichloropropane	U		0.00200	0.00573	1	10/15/2019 01:56	WG1362726
cis-1,3-Dichloropropene	U		0.000777	0.00286	1	10/15/2019 01:56	WG1362726
trans-1,3-Dichloropropene	U		0.00175	0.00573	1	10/15/2019 01:56	WG1362726
trans-1,4-Dichloro-2-butene	U		0.00160	0.00573	1	10/15/2019 01:56	WG1362726
2,2-Dichloropropane	U		0.000908	0.00286	1	10/15/2019 01:56	WG1362726
Di-isopropyl ether	U		0.000401	0.00115	1	10/15/2019 01:56	WG1362726
Ethylbenzene	0.000962	J	0.000607	0.00286	1	10/15/2019 01:56	WG1362726
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	10/15/2019 01:56	WG1362726
2-Hexanone	U		0.0115	0.0286	1	10/15/2019 01:56	WG1362726
n-Hexane	U		0.00121	0.00573	1	10/15/2019 01:56	WG1362726
Iodomethane	U	~~J3 J4~~	0.00693	0.0143	1	10/15/2019 01:56	WG1362726
Isopropylbenzene	U		0.000989	0.00286	1	10/15/2019 01:56	WG1362726
p-Isopropyltoluene	U		0.00267	0.00573	1	10/15/2019 01:56	WG1362726
2-Butanone (MEK)	0.0314	~~B~~	0.0143	0.0286	1	10/15/2019 01:56	WG1362726
Methylene Chloride	U		0.00761	0.0286	1	10/15/2019 01:56	WG1362726
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0286	1	10/15/2019 01:56	WG1362726

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000338	0.00115	1	10/15/2019 01:56	WG1362726
Naphthalene	U		0.00357	0.0143	1	10/15/2019 01:56	WG1362726
n-Propylbenzene	U		0.00135	0.00573	1	10/15/2019 01:56	WG1362726
Styrene	U		0.00313	0.0143	1	10/15/2019 01:56	WG1362726
1,1,1,2-Tetrachloroethane	U		0.000573	0.00286	1	10/15/2019 01:56	WG1362726
1,1,2,2-Tetrachloroethane	U		0.000447	0.00286	1	10/15/2019 01:56	WG1362726
1,1,2-Trichlorotrifluoroethane	U		0.000773	0.00286	1	10/15/2019 01:56	WG1362726
Tetrachloroethene	U		0.000802	0.00286	1	10/15/2019 01:56	WG1362726
Toluene	0.0293		0.00143	0.00573	1	10/15/2019 01:56	WG1362726
1,2,3-Trichlorobenzene	U		0.000716	0.00286	1	10/15/2019 01:56	WG1362726
1,2,4-Trichlorobenzene	U		0.00552	0.0143	1	10/15/2019 01:56	WG1362726
1,1,1-Trichloroethane	U		0.000315	0.00286	1	10/15/2019 01:56	WG1362726
1,1,2-Trichloroethane	U		0.00101	0.00286	1	10/15/2019 01:56	WG1362726
Trichloroethene	U		0.000458	0.00115	1	10/15/2019 01:56	WG1362726
Trichlorofluoromethane	U		0.000573	0.00286	1	10/15/2019 01:56	WG1362726
1,2,3-Trichloropropane	U		0.00584	0.0143	1	10/15/2019 01:56	WG1362726
1,2,4-Trimethylbenzene	0.00182 U	~~B J~~	0.00133	0.00573	1	10/15/2019 01:56	WG1362726
1,2,3-Trimethylbenzene	U		0.00132	0.00573	1	10/15/2019 01:56	WG1362726
1,3,5-Trimethylbenzene	U		0.00124	0.00573	1	10/15/2019 01:56	WG1362726
Vinyl acetate	U UJ	J0	0.00403	0.0143	1	10/15/2019 01:56	WG1362726
Vinyl chloride	U		0.000782	0.00286	1	10/15/2019 01:56	WG1362726
Xylenes, Total	U		0.00548	0.00745	1	10/15/2019 01:56	WG1362726
(S) Toluene-d8	*105*			*75.0-131*		*10/15/2019 01:56*	WG1362726
(S) 4-Bromofluorobenzene	*96.1*			*67.0-138*		*10/15/2019 01:56*	WG1362726
(S) 1,2-Dichloroethane-d4	*92.3*			*70.0-130*		*10/15/2019 01:56*	WG1362726

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Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.6		1	10/12/2019 16:15	WG1361913

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg		Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0650	J	J0	0.0148	0.0270	1	10/15/2019 02:18	WG1362726
Acrylonitrile	U			0.00205	0.0135	1	10/15/2019 02:18	WG1362726
Benzene	0.000722		J	0.000432	0.00108	1	10/15/2019 02:18	WG1362726
Bromobenzene	U			0.00113	0.0135	1	10/15/2019 02:18	WG1362726
Bromodichloromethane	U			0.000851	0.00270	1	10/15/2019 02:18	WG1362726
Bromochloromethane	U			0.00122	0.00540	1	10/15/2019 02:18	WG1362726
Bromoform	U			0.00646	0.0270	1	10/15/2019 02:18	WG1362726
Bromomethane	U			0.00400	0.0135	1	10/15/2019 02:18	WG1362726
n-Butylbenzene	U			0.00415	0.0135	1	10/15/2019 02:18	WG1362726
sec-Butylbenzene	U			0.00273	0.0135	1	10/15/2019 02:18	WG1362726
tert-Butylbenzene	U			0.00167	0.00540	1	10/15/2019 02:18	WG1362726
Carbon disulfide	U			0.00439	0.0135	1	10/15/2019 02:18	WG1362726
Carbon tetrachloride	U	UJ	J0	0.00117	0.00540	1	10/15/2019 02:18	WG1362726
Chlorobenzene	U			0.000619	0.00270	1	10/15/2019 02:18	WG1362726
Chlorodibromomethane	U			0.000486	0.00270	1	10/15/2019 02:18	WG1362726
Chloroethane	U			0.00117	0.00540	1	10/15/2019 02:18	WG1362726
Chloroform	U			0.000448	0.00270	1	10/15/2019 02:18	WG1362726
Chloromethane	U			0.00150	0.0135	1	10/15/2019 02:18	WG1362726
2-Chlorotoluene	U			0.000994	0.00270	1	10/15/2019 02:18	WG1362726
4-Chlorotoluene	U			0.00122	0.00540	1	10/15/2019 02:18	WG1362726
1,2-Dibromo-3-Chloropropane	U			0.00551	0.0270	1	10/15/2019 02:18	WG1362726
1,2-Dibromoethane	U			0.000567	0.00270	1	10/15/2019 02:18	WG1362726
Dibromomethane	U			0.00108	0.00540	1	10/15/2019 02:18	WG1362726
1,2-Dichlorobenzene	U			0.00157	0.00540	1	10/15/2019 02:18	WG1362726
1,3-Dichlorobenzene	U			0.00184	0.00540	1	10/15/2019 02:18	WG1362726
1,4-Dichlorobenzene	U			0.00213	0.00540	1	10/15/2019 02:18	WG1362726
Dichlorodifluoromethane	U			0.000884	0.00270	1	10/15/2019 02:18	WG1362726
1,1-Dichloroethane	U			0.000621	0.00270	1	10/15/2019 02:18	WG1362726
1,2-Dichloroethane	U			0.000513	0.00270	1	10/15/2019 02:18	WG1362726
1,1-Dichloroethene	U			0.000540	0.00270	1	10/15/2019 02:18	WG1362726
cis-1,2-Dichloroethene	U			0.000745	0.00270	1	10/15/2019 02:18	WG1362726
trans-1,2-Dichloroethene	U			0.00154	0.00540	1	10/15/2019 02:18	WG1362726
1,2-Dichloropropane	U			0.00137	0.00540	1	10/15/2019 02:18	WG1362726
1,1-Dichloropropene	U			0.000756	0.00270	1	10/15/2019 02:18	WG1362726
1,3-Dichloropropane	U			0.00189	0.00540	1	10/15/2019 02:18	WG1362726
cis-1,3-Dichloropropene	U			0.000732	0.00270	1	10/15/2019 02:18	WG1362726
trans-1,3-Dichloropropene	U			0.00165	0.00540	1	10/15/2019 02:18	WG1362726
trans-1,4-Dichloro-2-butene	U			0.00151	0.00540	1	10/15/2019 02:18	WG1362726
2,2-Dichloropropane	U			0.000857	0.00270	1	10/15/2019 02:18	WG1362726
Di-isopropyl ether	U			0.000378	0.00108	1	10/15/2019 02:18	WG1362726
Ethylbenzene	0.000584		J	0.000573	0.00270	1	10/15/2019 02:18	WG1362726
Hexachloro-1,3-butadiene	U			0.0137	0.0270	1	10/15/2019 02:18	WG1362726
2-Hexanone	U			0.0108	0.0270	1	10/15/2019 02:18	WG1362726
n-Hexane	U			0.00115	0.00540	1	10/15/2019 02:18	WG1362726
Iodomethane	U		~~J3 J4~~	0.00654	0.0135	1	10/15/2019 02:18	WG1362726
Isopropylbenzene	U			0.000932	0.00270	1	10/15/2019 02:18	WG1362726
p-Isopropyltoluene	U			0.00252	0.00540	1	10/15/2019 02:18	WG1362726
2-Butanone (MEK)	0.0274		~~B~~	0.0135	0.0270	1	10/15/2019 02:18	WG1362726
Methylene Chloride	U			0.00717	0.0270	1	10/15/2019 02:18	WG1362726
4-Methyl-2-pentanone (MIBK)	U			0.0108	0.0270	1	10/15/2019 02:18	WG1362726

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MW-2016-85

Collected date/time: 10/03/19 15:00

SAMPLE RESULTS - 18

L1147037

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000319	0.00108	1	10/15/2019 02:18	WG1362726
Naphthalene	U		0.00337	0.0135	1	10/15/2019 02:18	WG1362726
n-Propylbenzene	U		0.00127	0.00540	1	10/15/2019 02:18	WG1362726
Styrene	U		0.00295	0.0135	1	10/15/2019 02:18	WG1362726
1,1,1,2-Tetrachloroethane	U		0.000540	0.00270	1	10/15/2019 02:18	WG1362726
1,1,2,2-Tetrachloroethane	U		0.000421	0.00270	1	10/15/2019 02:18	WG1362726
1,1,2-Trichlorotrifluoroethane	U		0.000729	0.00270	1	10/15/2019 02:18	WG1362726
Tetrachloroethene	U		0.000756	0.00270	1	10/15/2019 02:18	WG1362726
Toluene	0.0113		0.00135	0.00540	1	10/15/2019 02:18	WG1362726
1,2,3-Trichlorobenzene	U		0.000675	0.00270	1	10/15/2019 02:18	WG1362726
1,2,4-Trichlorobenzene	U		0.00521	0.0135	1	10/15/2019 02:18	WG1362726
1,1,1-Trichloroethane	U		0.000297	0.00270	1	10/15/2019 02:18	WG1362726
1,1,2-Trichloroethane	U		0.000954	0.00270	1	10/15/2019 02:18	WG1362726
Trichloroethene	U		0.000432	0.00108	1	10/15/2019 02:18	WG1362726
Trichlorofluoromethane	U		0.000540	0.00270	1	10/15/2019 02:18	WG1362726
1,2,3-Trichloropropane	U		0.00551	0.0135	1	10/15/2019 02:18	WG1362726
1,2,4-Trimethylbenzene	0.00144 U	~~B J~~	0.00125	0.00540	1	10/15/2019 02:18	WG1362726
1,2,3-Trimethylbenzene	U		0.00124	0.00540	1	10/15/2019 02:18	WG1362726
1,3,5-Trimethylbenzene	U		0.00117	0.00540	1	10/15/2019 02:18	WG1362726
Vinyl acetate	U UJ	J0	0.00380	0.0135	1	10/15/2019 02:18	WG1362726
Vinyl chloride	U		0.000738	0.00270	1	10/15/2019 02:18	WG1362726
Xylenes, Total	U		0.00516	0.00702	1	10/15/2019 02:18	WG1362726
(S) Toluene-d8	*105*			*75.0-131*		*10/15/2019 02:18*	WG1362726
(S) 4-Bromofluorobenzene	*97.6*			*67.0-138*		*10/15/2019 02:18*	WG1362726
(S) 1,2-Dichloroethane-d4	*93.5*			*70.0-130*		*10/15/2019 02:18*	WG1362726

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MEMORANDUM

TO: Project File **DATE:** November 27, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.02.501E

TASK: EIM Data Validation Level EPA2A for October 2019 – Groundwater Samples

LAB: Pace Sample Delivery Groups (SDGs): L1146788, L1147264, L1147791, and L1148422

Seventeen (17) groundwater samples including one (1) field duplicate sample and three (3) trip blanks were collected as part of the Remedial Investigation (RI) sampling event at the Former American Linen Supply Site, in Seattle, Washington, October 2-3, and 7-9, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B.

The RI sampling was conducted during the month of October and results are reported in multiple SDGs from Pace. Pace SDGs are reviewed in groups of approximately four per each data validation report. Group 1 analytical results are reported in SDGs L1146788, L1147264, L1147791 and L1148422. The quality assurance review of the laboratory data associated with Group 1 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested with the following discussions:

- SDG L1146788: Review of the chain of custody (COC) shows that TOC was not requested though it was analyzed on all samples. On October 7, 2019 PES contacted Pace by email to confirm the analysis request for TOC on all samples.
- SDG L1146788: Sample collected from monitoring well MW-316 was collected over a two-day period. Majority of sample (MW-316-100219 or Pace SDG L1146788-01) was collected on October 2, 2019 and additional volume was collected on October 3, 2019 for nitrate analysis (MW-316-100219 or Pace SDG L1146788-05).
- SDG L1146788: Review of the COC shows Trip Blank is listed in the remarks portion of the COC. No action was taken other than to note this.
- SDG L1147264: Notes on the COC indicate that containers were not provided for TOC analyses however TOC results are reported for all associated samples. On October 8, 2019 Pace, via email communication, indicated that the laboratory was switching TOC containers to 250 mL polyethylene instead of a 250 mL amber glass bottle. Review of EPA Method 9060A indicates that sampling and storage of samples in amber glass bottles is preferable however sampling and storage in plastic bottles is permissible if the containers do not contribute contaminating organics to the samples. Additionally, the method indicates that sample containers should not be exposed to sunlight and should be appropriately preserved.
- SDG L1147264: COC shows date received as 10/8 instead of 10/8/19. The COC was relinquished on 10/7/19 and sample acknowledgment/courier tracking data may be used to support receipt date of 10/8/2019. Pace's standard policy is to include the day, month, and year and indicated that the abbreviated date format was inadvertent.
- SDG L1147791: COC shows date received as 10/9 instead of 10/9/19. The COC was relinquished on 10/8/19 and sample acknowledgement/courier tracking data may be used to support receipt date of 10/9/2019. Pace's standard policy is to include the day, month, and year and indicated that the abbreviated date format was inadvertent.
- SDG L1148422: COC signature block is not legible since the lower portion of the page is cut-off. Pace rescanned an acceptable copy of the COC for PES's records.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:
All samples were analyzed within the USEPA recommended holding time for iron and manganese of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria are met with the following exceptions:

- SDG L1146788: Nitrate analysis for samples MW-324-100219, MW-328-100219, and MW-327-100219 were analyzed past the 48-hour holding time. **Nitrate results are estimated and qualified (UJ/J) due to holding time exceedance.**

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDGs L1146788 and L1147264 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for several compounds associated with the trip blanks. The compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. No action is taken other than to note this.

- SDGs L1146788 and L1147264 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for acetone associated with analytical batches in each SDG. These compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ) however trip blank contamination qualifiers supersede these qualifiers. Refer to Trip Blank section of this report for additional details.

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs).

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020B and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL. General chemistry and metal blank detections are shown below:

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1146788	WG1362246	SM2320B	Alkalinity as CaCO3, Total	3920	J	20000	ug/L	NO
L1146788	WG1357983	9056A	Chloride	52.6	J	1000	ug/L	NO
L1146788	WG1361291	9060A	TOC	726	J	1000	ug/L	NO
L1146788	WG1358528	6020B	Manganese	1.51	J	5.00	ug/L	NO
L1147264	WG1362246	SM2320B	Alkalinity as CaCO3, Total	3920	J	20000	ug/L	NO
L1147264	WG1361291	9060A	TOC	726	J	1000	ug/L	NO
L1147264	WG1358528	6020B	Manganese	1.03	J	5.00	ug/L	NO
L1147791	WG1362380	SM2320B	Alkalinity as CaCO3, Total	3660	J	20000	ug/L	NO
L1147791	WG1359667	9056A	Nitrate	26.7	J	100	ug/L	NO
L1147791	WG1361408	9060A	TOC	268	J	1000	ug/L	NO
L1147791	WG1362294	9060A	TOC	662	J	1000	ug/L	NO
L1148422	WG1363488	SM2320B	Alkalinity as CaCO3, Total	3770	J	20000	ug/L	NO
L1148422	WG1360711	9056A	Chloride	78.6	J	1000	ug/L	NO
L1148422	WG1362106	9060A	TOC	222	J	1000	ug/L	YES
L1148422	WG1362075	6020B	Manganese	0.308	J	5.00	ug/L	NO

The following blank was detected below the RDL:

- SDG 1148422: Sample MW-323-100919 TOC result was detected below the RDL and at a low level in the associated blank. **TOC result in sample MW-323-100919 is qualified (U) as not detected due to blank contamination.**

Trip Blank Results

USEPA Method 8260C:

Three trip blanks were collected and submitted for VOC analysis. The target analytes were not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1146788 – Analytical batch WG1362918: A low level of acetone and is detected in the trip blank. **Associated acetone detections, below the RDL, are qualified as not detected (U).**

- SDG L1147264 – Analytical batch WG1362918: A low level of acetone and is detected in the trip blank. **Associated acetone detections, below the RDL, are qualified as not detected (U).**

- SDG L1147791: Analytical batch WG1364657: A low level of acetone and is detected in the trip blank. **Associated acetone detections, below the RDL, are qualified as not detected (U).**

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:
Equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1146788: Samples MW-329-100319 and MW-915-100319.

Target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 1x RDL for groundwater results <5X the RDL) for the field duplicate pair.

Laboratory Duplicate Analyses

USEPA Method 8260C:
Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:
Laboratory duplicate samples were not analyzed. Refer to LCS/LCSD or MS/MSD results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260C:
Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions:

- SDGs L1147791 and L1148422 - Analytical batches WG1364657. An LCSD was not analyzed. Refer to the field duplicate data associated with SDG L1146788 for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD %Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:
The LCS/LCSD %Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on client and non-client samples. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
MS/MSD analyses were not performed. Refer to LCS/LCSD and laboratory duplicate results for accuracy and precision data.

USEPA Method 6020B:

MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDG L1146788 - Analytical batch WG1361291: The MS/MSDs were performed on a client and on a non-client sample. On the non-client sample results for TOC are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that client sample MW-329-100319 matrix spike results are within criteria.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

- Multiple SDGs: Selected sample narratives for alkalinity results indicate that several sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. No action is taken other than to note this.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	384000		2710	20000	1	10/13/2019 15:01	WG1362246

Sample Narrative:

L1146788-01 WG1362246: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	16900		51.9	1000	1	10/05/2019 16:50	WG1357983
Sulfate	41800		77.4	5000	1	10/05/2019 16:50	WG1357983

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3780	~~B~~	102	1000	1	10/11/2019 13:15	WG1361291

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2580		75.0	500	5	10/09/2019 10:59	WG1358528
Manganese	328		1.25	25.0	5	10/09/2019 10:59	WG1358528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	143		0.287	0.678	1	10/10/2019 14:27	WG1360431
Ethane	U		0.296	1.29	1	10/10/2019 14:27	WG1360431
Ethene	U		0.422	1.27	1	10/10/2019 14:27	WG1360431

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.73	U J J0	1.05	25.0	1	10/15/2019 02:55	WG1362918
Acrylonitrile	U		0.873	5.00	1	10/15/2019 02:55	WG1362918
Benzene	U		0.0896	0.500	1	10/15/2019 02:55	WG1362918
Bromobenzene	U		0.133	0.500	1	10/15/2019 02:55	WG1362918
Bromodichloromethane	U		0.0800	0.500	1	10/15/2019 02:55	WG1362918
Bromochloromethane	U		0.145	0.500	1	10/15/2019 02:55	WG1362918
Bromoform	U		0.186	0.500	1	10/15/2019 02:55	WG1362918
Bromomethane	U		0.157	2.50	1	10/15/2019 02:55	WG1362918
n-Butylbenzene	U		0.143	0.500	1	10/15/2019 02:55	WG1362918
sec-Butylbenzene	U		0.134	0.500	1	10/15/2019 02:55	WG1362918
tert-Butylbenzene	U		0.183	0.500	1	10/15/2019 02:55	WG1362918
Carbon disulfide	0.485	J	0.101	0.500	1	10/15/2019 02:55	WG1362918
Carbon tetrachloride	U		0.159	0.500	1	10/15/2019 02:55	WG1362918
Chlorobenzene	U		0.140	0.500	1	10/15/2019 02:55	WG1362918
Chlorodibromomethane	U		0.128	0.500	1	10/15/2019 02:55	WG1362918
Chloroethane	U		0.141	2.50	1	10/15/2019 02:55	WG1362918
Chloroform	U		0.0860	0.500	1	10/15/2019 02:55	WG1362918
Chloromethane	U		0.153	1.25	1	10/15/2019 02:55	WG1362918
2-Chlorotoluene	U		0.111	0.500	1	10/15/2019 02:55	WG1362918
4-Chlorotoluene	U		0.0972	0.500	1	10/15/2019 02:55	WG1362918
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/15/2019 02:55	WG1362918

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromoethane	U		0.193	0.500	1	10/15/2019 02:55	WG1362918
Dibromomethane	U		0.117	0.500	1	10/15/2019 02:55	WG1362918
1,2-Dichlorobenzene	U		0.101	0.500	1	10/15/2019 02:55	WG1362918
1,3-Dichlorobenzene	U		0.130	0.500	1	10/15/2019 02:55	WG1362918
1,4-Dichlorobenzene	U		0.121	0.500	1	10/15/2019 02:55	WG1362918
Dichlorodifluoromethane	U		0.127	2.50	1	10/15/2019 02:55	WG1362918
1,1-Dichloroethane	U		0.114	0.500	1	10/15/2019 02:55	WG1362918
1,2-Dichloroethane	U		0.108	0.500	1	10/15/2019 02:55	WG1362918
1,1-Dichloroethene	U		0.188	0.500	1	10/15/2019 02:55	WG1362918
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/15/2019 02:55	WG1362918
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/15/2019 02:55	WG1362918
1,2-Dichloropropane	U		0.190	0.500	1	10/15/2019 02:55	WG1362918
1,1-Dichloropropene	U		0.128	0.500	1	10/15/2019 02:55	WG1362918
1,3-Dichloropropane	U		0.147	1.00	1	10/15/2019 02:55	WG1362918
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/15/2019 02:55	WG1362918
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/15/2019 02:55	WG1362918
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/15/2019 02:55	WG1362918
2,2-Dichloropropane	U		0.0929	0.500	1	10/15/2019 02:55	WG1362918
Di-isopropyl ether	U		0.0924	0.500	1	10/15/2019 02:55	WG1362918
Ethylbenzene	U		0.158	0.500	1	10/15/2019 02:55	WG1362918
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/15/2019 02:55	WG1362918
2-Hexanone	U		0.757	5.00	1	10/15/2019 02:55	WG1362918
n-Hexane	U		0.305	5.00	1	10/15/2019 02:55	WG1362918
Iodomethane	U		0.377	10.0	1	10/15/2019 02:55	WG1362918
Isopropylbenzene	U		0.126	0.500	1	10/15/2019 02:55	WG1362918
p-Isopropyltoluene	U		0.138	0.500	1	10/15/2019 02:55	WG1362918
2-Butanone (MEK)	U		1.28	5.00	1	10/15/2019 02:55	WG1362918
Methylene Chloride	U		1.07	2.50	1	10/15/2019 02:55	WG1362918
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/15/2019 02:55	WG1362918
Methyl tert-butyl ether	U		0.102	0.500	1	10/15/2019 02:55	WG1362918
Naphthalene	U		0.174	2.50	1	10/15/2019 02:55	WG1362918
n-Propylbenzene	U		0.162	0.500	1	10/15/2019 02:55	WG1362918
Styrene	U		0.117	0.500	1	10/15/2019 02:55	WG1362918
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/15/2019 02:55	WG1362918
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/15/2019 02:55	WG1362918
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/15/2019 02:55	WG1362918
Tetrachloroethene	U		0.199	0.500	1	10/15/2019 02:55	WG1362918
Toluene	0.570		0.412	0.500	1	10/15/2019 02:55	WG1362918
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/15/2019 02:55	WG1362918
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/15/2019 02:55	WG1362918
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/15/2019 02:55	WG1362918
1,1,2-Trichloroethane	U		0.186	0.500	1	10/15/2019 02:55	WG1362918
Trichloroethene	U		0.153	0.500	1	10/15/2019 02:55	WG1362918
Trichlorofluoromethane	U		0.130	2.50	1	10/15/2019 02:55	WG1362918
1,2,3-Trichloropropane	U		0.247	2.50	1	10/15/2019 02:55	WG1362918
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/15/2019 02:55	WG1362918
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/15/2019 02:55	WG1362918
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/15/2019 02:55	WG1362918
Vinyl acetate	U		0.645	5.00	1	10/15/2019 02:55	WG1362918
Vinyl chloride	U		0.118	0.500	1	10/15/2019 02:55	WG1362918
Xylenes, Total	U		0.316	1.50	1	10/15/2019 02:55	WG1362918
(S) Toluene-d8	*102*			*80.0-120*		*10/15/2019 02:55*	WG1362918
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/15/2019 02:55*	WG1362918
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*10/15/2019 02:55*	WG1362918

JC 11/25/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	587000		2710	20000	1	10/13/2019 15:08	WG1362246

Sample Narrative:

L1146788-02 WG1362246: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	20100		51.9	1000	1	10/05/2019 18:29	WG1357983
Nitrate	U UJ	T8	22.7	100	1	10/05/2019 18:29	WG1357983
Sulfate	93100		77.4	5000	1	10/05/2019 18:29	WG1357983

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	13100		102	1000	1	10/11/2019 13:39	WG1361291

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	5740		75.0	500	5	10/09/2019 11:02	WG1358528
Manganese	374		1.25	25.0	5	10/09/2019 11:02	WG1358528

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	3340		0.287	0.678	1	10/10/2019 14:31	WG1360431
Ethane	13.4		0.296	1.29	1	10/10/2019 14:31	WG1360431
Ethene	22.4		0.422	1.27	1	10/10/2019 14:31	WG1360431

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	6.39 U	J J0	1.05	25.0	1	10/15/2019 03:16	WG1362918
Acrylonitrile	U		0.873	5.00	1	10/15/2019 03:16	WG1362918
Benzene	0.401	J	0.0896	0.500	1	10/15/2019 03:16	WG1362918
Bromobenzene	U		0.133	0.500	1	10/15/2019 03:16	WG1362918
Bromodichloromethane	U		0.0800	0.500	1	10/15/2019 03:16	WG1362918
Bromochloromethane	U		0.145	0.500	1	10/15/2019 03:16	WG1362918
Bromoform	U		0.186	0.500	1	10/15/2019 03:16	WG1362918
Bromomethane	U		0.157	2.50	1	10/15/2019 03:16	WG1362918
n-Butylbenzene	U		0.143	0.500	1	10/15/2019 03:16	WG1362918
sec-Butylbenzene	U		0.134	0.500	1	10/15/2019 03:16	WG1362918
tert-Butylbenzene	U		0.183	0.500	1	10/15/2019 03:16	WG1362918
Carbon disulfide	5.63		0.101	0.500	1	10/15/2019 03:16	WG1362918
Carbon tetrachloride	U		0.159	0.500	1	10/15/2019 03:16	WG1362918
Chlorobenzene	U		0.140	0.500	1	10/15/2019 03:16	WG1362918
Chlorodibromomethane	U		0.128	0.500	1	10/15/2019 03:16	WG1362918
Chloroethane	U		0.141	2.50	1	10/15/2019 03:16	WG1362918
Chloroform	U		0.0860	0.500	1	10/15/2019 03:16	WG1362918
Chloromethane	U		0.153	1.25	1	10/15/2019 03:16	WG1362918
2-Chlorotoluene	U		0.111	0.500	1	10/15/2019 03:16	WG1362918
4-Chlorotoluene	U		0.0972	0.500	1	10/15/2019 03:16	WG1362918

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/15/2019 03:16	WG1362918
1,2-Dibromoethane	U		0.193	0.500	1	10/15/2019 03:16	WG1362918
Dibromomethane	U		0.117	0.500	1	10/15/2019 03:16	WG1362918
1,2-Dichlorobenzene	U		0.101	0.500	1	10/15/2019 03:16	WG1362918
1,3-Dichlorobenzene	U		0.130	0.500	1	10/15/2019 03:16	WG1362918
1,4-Dichlorobenzene	U		0.121	0.500	1	10/15/2019 03:16	WG1362918
Dichlorodifluoromethane	U		0.127	2.50	1	10/15/2019 03:16	WG1362918
1,1-Dichloroethane	U		0.114	0.500	1	10/15/2019 03:16	WG1362918
1,2-Dichloroethane	U		0.108	0.500	1	10/15/2019 03:16	WG1362918
1,1-Dichloroethene	1.53		0.188	0.500	1	10/15/2019 03:16	WG1362918
cis-1,2-Dichloroethene	1550		4.67	25.0	50	10/15/2019 16:28	WG1363245
trans-1,2-Dichloroethene	3.21		0.152	0.500	1	10/15/2019 03:16	WG1362918
1,2-Dichloropropane	U		0.190	0.500	1	10/15/2019 03:16	WG1362918
1,1-Dichloropropene	U		0.128	0.500	1	10/15/2019 03:16	WG1362918
1,3-Dichloropropane	U		0.147	1.00	1	10/15/2019 03:16	WG1362918
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/15/2019 03:16	WG1362918
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/15/2019 03:16	WG1362918
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/15/2019 03:16	WG1362918
2,2-Dichloropropane	U		0.0929	0.500	1	10/15/2019 03:16	WG1362918
Di-isopropyl ether	U		0.0924	0.500	1	10/15/2019 03:16	WG1362918
Ethylbenzene	U		0.158	0.500	1	10/15/2019 03:16	WG1362918
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/15/2019 03:16	WG1362918
2-Hexanone	U		0.757	5.00	1	10/15/2019 03:16	WG1362918
n-Hexane	U		0.305	5.00	1	10/15/2019 03:16	WG1362918
Iodomethane	U		0.377	10.0	1	10/15/2019 03:16	WG1362918
Isopropylbenzene	U		0.126	0.500	1	10/15/2019 03:16	WG1362918
p-Isopropyltoluene	U		0.138	0.500	1	10/15/2019 03:16	WG1362918
2-Butanone (MEK)	U		1.28	5.00	1	10/15/2019 03:16	WG1362918
Methylene Chloride	U		1.07	2.50	1	10/15/2019 03:16	WG1362918
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/15/2019 03:16	WG1362918
Methyl tert-butyl ether	U		0.102	0.500	1	10/15/2019 03:16	WG1362918
Naphthalene	U		0.174	2.50	1	10/15/2019 03:16	WG1362918
n-Propylbenzene	U		0.162	0.500	1	10/15/2019 03:16	WG1362918
Styrene	U		0.117	0.500	1	10/15/2019 03:16	WG1362918
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/15/2019 03:16	WG1362918
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/15/2019 03:16	WG1362918
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/15/2019 03:16	WG1362918
Tetrachloroethene	U		0.199	0.500	1	10/15/2019 03:16	WG1362918
Toluene	5.45		0.412	0.500	1	10/15/2019 03:16	WG1362918
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/15/2019 03:16	WG1362918
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/15/2019 03:16	WG1362918
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/15/2019 03:16	WG1362918
1,1,2-Trichloroethane	U		0.186	0.500	1	10/15/2019 03:16	WG1362918
Trichloroethene	0.642		0.153	0.500	1	10/15/2019 03:16	WG1362918
Trichlorofluoromethane	U		0.130	2.50	1	10/15/2019 03:16	WG1362918
1,2,3-Trichloropropane	U		0.247	2.50	1	10/15/2019 03:16	WG1362918
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/15/2019 03:16	WG1362918
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/15/2019 03:16	WG1362918
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/15/2019 03:16	WG1362918
Vinyl acetate	U		0.645	5.00	1	10/15/2019 03:16	WG1362918
Vinyl chloride	61.9		0.118	0.500	1	10/15/2019 03:16	WG1362918
Xylenes, Total	U		0.316	1.50	1	10/15/2019 03:16	WG1362918
(S) Toluene-d8	*101*			*80.0-120*		*10/15/2019 03:16*	WG1362918
(S) Toluene-d8	*94.7*			*80.0-120*		*10/15/2019 16:28*	WG1363245
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*10/15/2019 03:16*	WG1362918
(S) 4-Bromofluorobenzene	*91.6*			*77.0-126*		*10/15/2019 16:28*	WG1363245

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/15/2019 03:16*	WG1362918
(S) 1,2-Dichloroethane-d4	*84.0*			*70.0-130*		*10/15/2019 16:28*	WG1363245

JC 11/25/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	683000		2710	20000	1	10/13/2019 15:16	WG1362246

Sample Narrative:

L1146788-03 WG1362246: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	17700		51.9	1000	1	10/05/2019 18:45	WG1357983
Nitrate	U UJ	T8	22.7	100	1	10/05/2019 18:45	WG1357983
Sulfate	787	J	77.4	5000	1	10/05/2019 18:45	WG1357983

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8750		102	1000	1	10/11/2019 14:02	WG1361291

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	20300		150	1000	10	10/09/2019 11:06	WG1358528
Manganese	755		2.50	50.0	10	10/09/2019 11:06	WG1358528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	23700		2.87	6.78	10	10/11/2019 09:50	WG1361193
Ethane	U		0.296	1.29	1	10/10/2019 14:33	WG1360431
Ethene	36.8		0.422	1.27	1	10/10/2019 14:33	WG1360431

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.16 U	J J0	1.05	25.0	1	10/15/2019 03:36	WG1362918
Acrylonitrile	U		0.873	5.00	1	10/15/2019 03:36	WG1362918
Benzene	17.0		0.0896	0.500	1	10/15/2019 03:36	WG1362918
Bromobenzene	U		0.133	0.500	1	10/15/2019 03:36	WG1362918
Bromodichloromethane	U		0.0800	0.500	1	10/15/2019 03:36	WG1362918
Bromochloromethane	U		0.145	0.500	1	10/15/2019 03:36	WG1362918
Bromoform	U		0.186	0.500	1	10/15/2019 03:36	WG1362918
Bromomethane	U		0.157	2.50	1	10/15/2019 03:36	WG1362918
n-Butylbenzene	U		0.143	0.500	1	10/15/2019 03:36	WG1362918
sec-Butylbenzene	U		0.134	0.500	1	10/15/2019 03:36	WG1362918
tert-Butylbenzene	U		0.183	0.500	1	10/15/2019 03:36	WG1362918
Carbon disulfide	U		0.101	0.500	1	10/15/2019 03:36	WG1362918
Carbon tetrachloride	U		0.159	0.500	1	10/15/2019 03:36	WG1362918
Chlorobenzene	U		0.140	0.500	1	10/15/2019 03:36	WG1362918
Chlorodibromomethane	U		0.128	0.500	1	10/15/2019 03:36	WG1362918
Chloroethane	U		0.141	2.50	1	10/15/2019 03:36	WG1362918
Chloroform	U		0.0860	0.500	1	10/15/2019 03:36	WG1362918
Chloromethane	U		0.153	1.25	1	10/15/2019 03:36	WG1362918
2-Chlorotoluene	U		0.111	0.500	1	10/15/2019 03:36	WG1362918
4-Chlorotoluene	U		0.0972	0.500	1	10/15/2019 03:36	WG1362918

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/15/2019 03:36	WG1362918
1,2-Dibromoethane	U		0.193	0.500	1	10/15/2019 03:36	WG1362918
Dibromomethane	U		0.117	0.500	1	10/15/2019 03:36	WG1362918
1,2-Dichlorobenzene	U		0.101	0.500	1	10/15/2019 03:36	WG1362918
1,3-Dichlorobenzene	U		0.130	0.500	1	10/15/2019 03:36	WG1362918
1,4-Dichlorobenzene	U		0.121	0.500	1	10/15/2019 03:36	WG1362918
Dichlorodifluoromethane	U		0.127	2.50	1	10/15/2019 03:36	WG1362918
1,1-Dichloroethane	U		0.114	0.500	1	10/15/2019 03:36	WG1362918
1,2-Dichloroethane	U		0.108	0.500	1	10/15/2019 03:36	WG1362918
1,1-Dichloroethene	U		0.188	0.500	1	10/15/2019 03:36	WG1362918
cis-1,2-Dichloroethene	1.26		0.0933	0.500	1	10/15/2019 16:48	WG1363245
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/15/2019 03:36	WG1362918
1,2-Dichloropropane	U		0.190	0.500	1	10/15/2019 03:36	WG1362918
1,1-Dichloropropene	U		0.128	0.500	1	10/15/2019 03:36	WG1362918
1,3-Dichloropropane	U		0.147	1.00	1	10/15/2019 03:36	WG1362918
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/15/2019 03:36	WG1362918
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/15/2019 03:36	WG1362918
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/15/2019 03:36	WG1362918
2,2-Dichloropropane	U		0.0929	0.500	1	10/15/2019 03:36	WG1362918
Di-isopropyl ether	U		0.0924	0.500	1	10/15/2019 03:36	WG1362918
Ethylbenzene	U		0.158	0.500	1	10/15/2019 03:36	WG1362918
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/15/2019 03:36	WG1362918
2-Hexanone	U		0.757	5.00	1	10/15/2019 03:36	WG1362918
n-Hexane	U		0.305	5.00	1	10/15/2019 03:36	WG1362918
Iodomethane	U		0.377	10.0	1	10/15/2019 03:36	WG1362918
Isopropylbenzene	U		0.126	0.500	1	10/15/2019 03:36	WG1362918
p-Isopropyltoluene	U		0.138	0.500	1	10/15/2019 03:36	WG1362918
2-Butanone (MEK)	U		1.28	5.00	1	10/15/2019 03:36	WG1362918
Methylene Chloride	U		1.07	2.50	1	10/15/2019 03:36	WG1362918
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/15/2019 03:36	WG1362918
Methyl tert-butyl ether	U		0.102	0.500	1	10/15/2019 03:36	WG1362918
Naphthalene	U		0.174	2.50	1	10/15/2019 03:36	WG1362918
n-Propylbenzene	U		0.162	0.500	1	10/15/2019 03:36	WG1362918
Styrene	U		0.117	0.500	1	10/15/2019 03:36	WG1362918
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/15/2019 03:36	WG1362918
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/15/2019 03:36	WG1362918
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/15/2019 03:36	WG1362918
Tetrachloroethene	U		0.199	0.500	1	10/15/2019 03:36	WG1362918
Toluene	0.535		0.412	0.500	1	10/15/2019 03:36	WG1362918
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/15/2019 03:36	WG1362918
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/15/2019 03:36	WG1362918
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/15/2019 03:36	WG1362918
1,1,2-Trichloroethane	U		0.186	0.500	1	10/15/2019 03:36	WG1362918
Trichloroethene	U		0.153	0.500	1	10/15/2019 03:36	WG1362918
Trichlorofluoromethane	U		0.130	2.50	1	10/15/2019 03:36	WG1362918
1,2,3-Trichloropropane	U		0.247	2.50	1	10/15/2019 03:36	WG1362918
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/15/2019 03:36	WG1362918
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/15/2019 03:36	WG1362918
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/15/2019 03:36	WG1362918
Vinyl acetate	U		0.645	5.00	1	10/15/2019 03:36	WG1362918
Vinyl chloride	23.3		0.118	0.500	1	10/15/2019 03:36	WG1362918
Xylenes, Total	U		0.316	1.50	1	10/15/2019 03:36	WG1362918
(S) Toluene-d8	*103*			*80.0-120*		*10/15/2019 03:36*	WG1362918
(S) Toluene-d8	*92.1*			*80.0-120*		*10/15/2019 16:48*	WG1363245
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*10/15/2019 03:36*	WG1362918
(S) 4-Bromofluorobenzene	*92.3*			*77.0-126*		*10/15/2019 16:48*	WG1363245

JC 11/25/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*10/15/2019 03:36*	WG1362918
(S) 1,2-Dichloroethane-d4	*81.8*			*70.0-130*		*10/15/2019 16:48*	WG1363245

JC 11/25/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	272000		2710	20000	1	10/13/2019 15:24	WG1362246

Sample Narrative:

L1146788-04 WG1362246: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	18400		51.9	1000	1	10/05/2019 19:01	WG1357983
Nitrate	U UJ	T8	22.7	100	1	10/05/2019 19:01	WG1357983
Sulfate	U		77.4	5000	1	10/05/2019 19:01	WG1357983

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4410	~~B~~	102	1000	1	10/11/2019 14:25	WG1361291

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	12400		150	1000	10	10/09/2019 11:09	WG1358528
Manganese	822		2.50	50.0	10	10/09/2019 11:09	WG1358528

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	18500		2.87	6.78	10	10/11/2019 09:56	WG1361193
Ethane	U		0.296	1.29	1	10/10/2019 14:37	WG1360431
Ethene	U		0.422	1.27	1	10/10/2019 14:37	WG1360431

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.99 U	J J0	1.05	25.0	1	10/15/2019 03:57	WG1362918
Acrylonitrile	U		0.873	5.00	1	10/15/2019 03:57	WG1362918
Benzene	U		0.0896	0.500	1	10/15/2019 03:57	WG1362918
Bromobenzene	U		0.133	0.500	1	10/15/2019 03:57	WG1362918
Bromodichloromethane	U		0.0800	0.500	1	10/15/2019 03:57	WG1362918
Bromochloromethane	U		0.145	0.500	1	10/15/2019 03:57	WG1362918
Bromoform	U		0.186	0.500	1	10/15/2019 03:57	WG1362918
Bromomethane	U		0.157	2.50	1	10/15/2019 03:57	WG1362918
n-Butylbenzene	U		0.143	0.500	1	10/15/2019 03:57	WG1362918
sec-Butylbenzene	U		0.134	0.500	1	10/15/2019 03:57	WG1362918
tert-Butylbenzene	U		0.183	0.500	1	10/15/2019 03:57	WG1362918
Carbon disulfide	U		0.101	0.500	1	10/15/2019 03:57	WG1362918
Carbon tetrachloride	U		0.159	0.500	1	10/15/2019 03:57	WG1362918
Chlorobenzene	U		0.140	0.500	1	10/15/2019 03:57	WG1362918
Chlorodibromomethane	U		0.128	0.500	1	10/15/2019 03:57	WG1362918
Chloroethane	U		0.141	2.50	1	10/15/2019 03:57	WG1362918
Chloroform	U		0.0860	0.500	1	10/15/2019 03:57	WG1362918
Chloromethane	U		0.153	1.25	1	10/15/2019 03:57	WG1362918
2-Chlorotoluene	U		0.111	0.500	1	10/15/2019 03:57	WG1362918
4-Chlorotoluene	U		0.0972	0.500	1	10/15/2019 03:57	WG1362918

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/15/2019 03:57	WG1362918	
1,2-Dibromoethane	U		0.193	0.500	1	10/15/2019 03:57	WG1362918	
Dibromomethane	U		0.117	0.500	1	10/15/2019 03:57	WG1362918	
1,2-Dichlorobenzene	U		0.101	0.500	1	10/15/2019 03:57	WG1362918	
1,3-Dichlorobenzene	U		0.130	0.500	1	10/15/2019 03:57	WG1362918	
1,4-Dichlorobenzene	U		0.121	0.500	1	10/15/2019 03:57	WG1362918	
Dichlorodifluoromethane	U		0.127	2.50	1	10/15/2019 03:57	WG1362918	
1,1-Dichloroethane	U		0.114	0.500	1	10/15/2019 03:57	WG1362918	
1,2-Dichloroethane	U		0.108	0.500	1	10/15/2019 03:57	WG1362918	
1,1-Dichloroethene	U		0.188	0.500	1	10/15/2019 03:57	WG1362918	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/15/2019 17:07	WG1363245	
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/15/2019 03:57	WG1362918	
1,2-Dichloropropane	U		0.190	0.500	1	10/15/2019 03:57	WG1362918	
1,1-Dichloropropene	U		0.128	0.500	1	10/15/2019 03:57	WG1362918	
1,3-Dichloropropane	U		0.147	1.00	1	10/15/2019 03:57	WG1362918	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/15/2019 03:57	WG1362918	
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/15/2019 03:57	WG1362918	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/15/2019 03:57	WG1362918	
2,2-Dichloropropane	U		0.0929	0.500	1	10/15/2019 03:57	WG1362918	
Di-isopropyl ether	U		0.0924	0.500	1	10/15/2019 03:57	WG1362918	
Ethylbenzene	U		0.158	0.500	1	10/15/2019 03:57	WG1362918	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/15/2019 03:57	WG1362918	
2-Hexanone	U		0.757	5.00	1	10/15/2019 03:57	WG1362918	
n-Hexane	U		0.305	5.00	1	10/15/2019 03:57	WG1362918	
Iodomethane	U		0.377	10.0	1	10/15/2019 03:57	WG1362918	
Isopropylbenzene	U		0.126	0.500	1	10/15/2019 03:57	WG1362918	
p-Isopropyltoluene	U		0.138	0.500	1	10/15/2019 03:57	WG1362918	
2-Butanone (MEK)	U		1.28	5.00	1	10/15/2019 03:57	WG1362918	
Methylene Chloride	U		1.07	2.50	1	10/15/2019 03:57	WG1362918	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/15/2019 03:57	WG1362918	
Methyl tert-butyl ether	U		0.102	0.500	1	10/15/2019 03:57	WG1362918	
Naphthalene	U		0.174	2.50	1	10/15/2019 03:57	WG1362918	
n-Propylbenzene	U		0.162	0.500	1	10/15/2019 03:57	WG1362918	
Styrene	U		0.117	0.500	1	10/15/2019 03:57	WG1362918	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/15/2019 03:57	WG1362918	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/15/2019 03:57	WG1362918	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/15/2019 03:57	WG1362918	
Tetrachloroethene	U		0.199	0.500	1	10/15/2019 03:57	WG1362918	
Toluene	U		0.412	0.500	1	10/15/2019 03:57	WG1362918	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/15/2019 03:57	WG1362918	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/15/2019 03:57	WG1362918	
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/15/2019 03:57	WG1362918	
1,1,2-Trichloroethane	U		0.186	0.500	1	10/15/2019 03:57	WG1362918	
Trichloroethene	U		0.153	0.500	1	10/15/2019 03:57	WG1362918	
Trichlorofluoromethane	U		0.130	2.50	1	10/15/2019 03:57	WG1362918	
1,2,3-Trichloropropane	U		0.247	2.50	1	10/15/2019 03:57	WG1362918	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/15/2019 03:57	WG1362918	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/15/2019 03:57	WG1362918	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/15/2019 03:57	WG1362918	
Vinyl acetate	U		0.645	5.00	1	10/15/2019 03:57	WG1362918	
Vinyl chloride	U		0.118	0.500	1	10/15/2019 03:57	WG1362918	
Xylenes, Total	U		0.316	1.50	1	10/15/2019 03:57	WG1362918	
(S) Toluene-d8	*100*			*80.0-120*		*10/15/2019 03:57*	WG1362918	
(S) Toluene-d8	*95.3*			*80.0-120*		*10/15/2019 17:07*	WG1363245	JC 11/25/19
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/15/2019 03:57*	WG1362918	
(S) 4-Bromofluorobenzene	*95.1*			*77.0-126*		*10/15/2019 17:07*	WG1363245	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/15/2019 03:57*	WG1362918
(S) 1,2-Dichloroethane-d4	*85.4*			*70.0-130*		*10/15/2019 17:07*	WG1363245

JC 11/25/19

Wet Chemistry by Method 9056A

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Nitrate	U	UJ	T8	22.7	100	1	10/05/2019 19:18	WG1357983

JC 11/25/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	325000		2710	20000	1	10/13/2019 15:30	WG1362246

Sample Narrative:

L1146788-06 WG1362246: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	11700		51.9	1000	1	10/05/2019 19:34	WG1357983
Nitrate	U UJ	T8	22.7	100	1	10/05/2019 19:34	WG1357983
Sulfate	35000		77.4	5000	1	10/05/2019 19:34	WG1357983

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3020	~~B~~	102	1000	1	10/11/2019 15:14	WG1361291

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	850		15.0	100	1	10/09/2019 00:25	WG1358528
Manganese	306		1.25	25.0	5	10/09/2019 11:13	WG1358528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	124		0.287	0.678	1	10/10/2019 14:40	WG1360431
Ethane	U		0.296	1.29	1	10/10/2019 14:40	WG1360431
Ethene	U		0.422	1.27	1	10/10/2019 14:40	WG1360431

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.36 U	J J0	1.05	25.0	1	10/15/2019 04:18	WG1362918
Acrylonitrile	U		0.873	5.00	1	10/15/2019 04:18	WG1362918
Benzene	U		0.0896	0.500	1	10/15/2019 04:18	WG1362918
Bromobenzene	U		0.133	0.500	1	10/15/2019 04:18	WG1362918
Bromodichloromethane	U		0.0800	0.500	1	10/15/2019 04:18	WG1362918
Bromochloromethane	U		0.145	0.500	1	10/15/2019 04:18	WG1362918
Bromoform	U		0.186	0.500	1	10/15/2019 04:18	WG1362918
Bromomethane	U		0.157	2.50	1	10/15/2019 04:18	WG1362918
n-Butylbenzene	U		0.143	0.500	1	10/15/2019 04:18	WG1362918
sec-Butylbenzene	U		0.134	0.500	1	10/15/2019 04:18	WG1362918
tert-Butylbenzene	U		0.183	0.500	1	10/15/2019 04:18	WG1362918
Carbon disulfide	U		0.101	0.500	1	10/15/2019 04:18	WG1362918
Carbon tetrachloride	U		0.159	0.500	1	10/15/2019 04:18	WG1362918
Chlorobenzene	U		0.140	0.500	1	10/15/2019 04:18	WG1362918
Chlorodibromomethane	U		0.128	0.500	1	10/15/2019 04:18	WG1362918
Chloroethane	U		0.141	2.50	1	10/15/2019 04:18	WG1362918
Chloroform	U		0.0860	0.500	1	10/15/2019 04:18	WG1362918
Chloromethane	U		0.153	1.25	1	10/15/2019 04:18	WG1362918
2-Chlorotoluene	U		0.111	0.500	1	10/15/2019 04:18	WG1362918
4-Chlorotoluene	U		0.0972	0.500	1	10/15/2019 04:18	WG1362918

JC 11/25/19

MW-315-100319
Collected date/time: 10/03/19 09:20

SAMPLE RESULTS - 06

L1146788

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/15/2019 04:18	WG1362918
1,2-Dibromoethane	U		0.193	0.500	1	10/15/2019 04:18	WG1362918
Dibromomethane	U		0.117	0.500	1	10/15/2019 04:18	WG1362918
1,2-Dichlorobenzene	U		0.101	0.500	1	10/15/2019 04:18	WG1362918
1,3-Dichlorobenzene	U		0.130	0.500	1	10/15/2019 04:18	WG1362918
1,4-Dichlorobenzene	U		0.121	0.500	1	10/15/2019 04:18	WG1362918
Dichlorodifluoromethane	U		0.127	2.50	1	10/15/2019 04:18	WG1362918
1,1-Dichloroethane	U		0.114	0.500	1	10/15/2019 04:18	WG1362918
1,2-Dichloroethane	U		0.108	0.500	1	10/15/2019 04:18	WG1362918
1,1-Dichloroethene	U		0.188	0.500	1	10/15/2019 04:18	WG1362918
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/15/2019 17:27	WG1363245
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/15/2019 04:18	WG1362918
1,2-Dichloropropane	U		0.190	0.500	1	10/15/2019 04:18	WG1362918
1,1-Dichloropropene	U		0.128	0.500	1	10/15/2019 04:18	WG1362918
1,3-Dichloropropane	U		0.147	1.00	1	10/15/2019 04:18	WG1362918
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/15/2019 04:18	WG1362918
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/15/2019 04:18	WG1362918
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/15/2019 04:18	WG1362918
2,2-Dichloropropane	U		0.0929	0.500	1	10/15/2019 04:18	WG1362918
Di-isopropyl ether	U		0.0924	0.500	1	10/15/2019 04:18	WG1362918
Ethylbenzene	U		0.158	0.500	1	10/15/2019 04:18	WG1362918
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/15/2019 04:18	WG1362918
2-Hexanone	U		0.757	5.00	1	10/15/2019 04:18	WG1362918
n-Hexane	U		0.305	5.00	1	10/15/2019 04:18	WG1362918
Iodomethane	U		0.377	10.0	1	10/15/2019 04:18	WG1362918
Isopropylbenzene	U		0.126	0.500	1	10/15/2019 04:18	WG1362918
p-Isopropyltoluene	U		0.138	0.500	1	10/15/2019 04:18	WG1362918
2-Butanone (MEK)	U		1.28	5.00	1	10/15/2019 04:18	WG1362918
Methylene Chloride	U		1.07	2.50	1	10/15/2019 04:18	WG1362918
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/15/2019 04:18	WG1362918
Methyl tert-butyl ether	U		0.102	0.500	1	10/15/2019 04:18	WG1362918
Naphthalene	U		0.174	2.50	1	10/15/2019 04:18	WG1362918
n-Propylbenzene	U		0.162	0.500	1	10/15/2019 04:18	WG1362918
Styrene	U		0.117	0.500	1	10/15/2019 04:18	WG1362918
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/15/2019 04:18	WG1362918
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/15/2019 04:18	WG1362918
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/15/2019 04:18	WG1362918
Tetrachloroethene	U		0.199	0.500	1	10/15/2019 04:18	WG1362918
Toluene	U		0.412	0.500	1	10/15/2019 04:18	WG1362918
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/15/2019 04:18	WG1362918
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/15/2019 04:18	WG1362918
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/15/2019 04:18	WG1362918
1,1,2-Trichloroethane	U		0.186	0.500	1	10/15/2019 04:18	WG1362918
Trichloroethene	U		0.153	0.500	1	10/15/2019 04:18	WG1362918
Trichlorofluoromethane	U		0.130	2.50	1	10/15/2019 04:18	WG1362918
1,2,3-Trichloropropane	U		0.247	2.50	1	10/15/2019 04:18	WG1362918
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/15/2019 04:18	WG1362918
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/15/2019 04:18	WG1362918
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/15/2019 04:18	WG1362918
Vinyl acetate	U		0.645	5.00	1	10/15/2019 04:18	WG1362918
Vinyl chloride	U		0.118	0.500	1	10/15/2019 04:18	WG1362918
Xylenes, Total	U		0.316	1.50	1	10/15/2019 04:18	WG1362918
(S) Toluene-d8	*101*			*80.0-120*		*10/15/2019 04:18*	WG1362918
(S) Toluene-d8	*95.9*			*80.0-120*		*10/15/2019 17:27*	WG1363245
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/15/2019 04:18*	WG1362918
(S) 4-Bromofluorobenzene	*94.3*			*77.0-126*		*10/15/2019 17:27*	WG1363245

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*10/15/2019 04:18*	WG1362918
(S) 1,2-Dichloroethane-d4	*83.9*			*70.0-130*		*10/15/2019 17:27*	WG1363245

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	589000		2710	20000	1	10/13/2019 15:38	WG1362246

Sample Narrative:

L1146788-07 WG1362246: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	56100		51.9	1000	1	10/05/2019 19:51	WG1357983
Nitrate	U UJ	T8	22.7	100	1	10/05/2019 19:51	WG1357983
Sulfate	11400		77.4	5000	1	10/05/2019 19:51	WG1357983

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5050	~~B~~	102	1000	1	10/11/2019 15:37	WG1361291

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	8060		300	2000	20	10/09/2019 11:17	WG1358528
Manganese	2260		5.00	100	20	10/09/2019 11:17	WG1358528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	716		0.287	0.678	1	10/10/2019 14:44	WG1360431
Ethane	23.4		0.296	1.29	1	10/10/2019 14:44	WG1360431
Ethene	U		0.422	1.27	1	10/10/2019 14:44	WG1360431

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.08 U	J J0	1.05	25.0	1	10/15/2019 04:39	WG1362918
Acrylonitrile	U		0.873	5.00	1	10/15/2019 04:39	WG1362918
Benzene	0.215	J	0.0896	0.500	1	10/15/2019 04:39	WG1362918
Bromobenzene	U		0.133	0.500	1	10/15/2019 04:39	WG1362918
Bromodichloromethane	U		0.0800	0.500	1	10/15/2019 04:39	WG1362918
Bromochloromethane	U		0.145	0.500	1	10/15/2019 04:39	WG1362918
Bromoform	U		0.186	0.500	1	10/15/2019 04:39	WG1362918
Bromomethane	U		0.157	2.50	1	10/15/2019 04:39	WG1362918
n-Butylbenzene	U		0.143	0.500	1	10/15/2019 04:39	WG1362918
sec-Butylbenzene	U		0.134	0.500	1	10/15/2019 04:39	WG1362918
tert-Butylbenzene	U		0.183	0.500	1	10/15/2019 04:39	WG1362918
Carbon disulfide	U		0.101	0.500	1	10/15/2019 04:39	WG1362918
Carbon tetrachloride	U		0.159	0.500	1	10/15/2019 04:39	WG1362918
Chlorobenzene	U		0.140	0.500	1	10/15/2019 04:39	WG1362918
Chlorodibromomethane	U		0.128	0.500	1	10/15/2019 04:39	WG1362918
Chloroethane	U		0.141	2.50	1	10/15/2019 04:39	WG1362918
Chloroform	U		0.0860	0.500	1	10/15/2019 04:39	WG1362918
Chloromethane	U		0.153	1.25	1	10/15/2019 04:39	WG1362918
2-Chlorotoluene	U		0.111	0.500	1	10/15/2019 04:39	WG1362918
4-Chlorotoluene	U		0.0972	0.500	1	10/15/2019 04:39	WG1362918

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/15/2019 04:39	WG1362918
1,2-Dibromoethane	U		0.193	0.500	1	10/15/2019 04:39	WG1362918
Dibromomethane	U		0.117	0.500	1	10/15/2019 04:39	WG1362918
1,2-Dichlorobenzene	U		0.101	0.500	1	10/15/2019 04:39	WG1362918
1,3-Dichlorobenzene	U		0.130	0.500	1	10/15/2019 04:39	WG1362918
1,4-Dichlorobenzene	U		0.121	0.500	1	10/15/2019 04:39	WG1362918
Dichlorodifluoromethane	U		0.127	2.50	1	10/15/2019 04:39	WG1362918
1,1-Dichloroethane	U		0.114	0.500	1	10/15/2019 04:39	WG1362918
1,2-Dichloroethane	U		0.108	0.500	1	10/15/2019 04:39	WG1362918
1,1-Dichloroethene	U		0.188	0.500	1	10/15/2019 04:39	WG1362918
cis-1,2-Dichloroethene	9.26		0.0933	0.500	1	10/15/2019 04:39	WG1362918
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/15/2019 04:39	WG1362918
1,2-Dichloropropane	U		0.190	0.500	1	10/15/2019 04:39	WG1362918
1,1-Dichloropropene	U		0.128	0.500	1	10/15/2019 04:39	WG1362918
1,3-Dichloropropane	U		0.147	1.00	1	10/15/2019 04:39	WG1362918
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/15/2019 04:39	WG1362918
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/15/2019 04:39	WG1362918
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/15/2019 04:39	WG1362918
2,2-Dichloropropane	U		0.0929	0.500	1	10/15/2019 04:39	WG1362918
Di-isopropyl ether	U		0.0924	0.500	1	10/15/2019 04:39	WG1362918
Ethylbenzene	U		0.158	0.500	1	10/15/2019 04:39	WG1362918
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/15/2019 04:39	WG1362918
2-Hexanone	U		0.757	5.00	1	10/15/2019 04:39	WG1362918
n-Hexane	U		0.305	5.00	1	10/15/2019 04:39	WG1362918
Iodomethane	U		0.377	10.0	1	10/15/2019 04:39	WG1362918
Isopropylbenzene	U		0.126	0.500	1	10/15/2019 04:39	WG1362918
p-Isopropyltoluene	U		0.138	0.500	1	10/15/2019 04:39	WG1362918
2-Butanone (MEK)	U		1.28	5.00	1	10/15/2019 04:39	WG1362918
Methylene Chloride	U		1.07	2.50	1	10/15/2019 04:39	WG1362918
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/15/2019 04:39	WG1362918
Methyl tert-butyl ether	U		0.102	0.500	1	10/15/2019 04:39	WG1362918
Naphthalene	U		0.174	2.50	1	10/15/2019 04:39	WG1362918
n-Propylbenzene	U		0.162	0.500	1	10/15/2019 04:39	WG1362918
Styrene	U		0.117	0.500	1	10/15/2019 04:39	WG1362918
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/15/2019 04:39	WG1362918
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/15/2019 04:39	WG1362918
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/15/2019 04:39	WG1362918
Tetrachloroethene	U		0.199	0.500	1	10/15/2019 04:39	WG1362918
Toluene	U		0.412	0.500	1	10/15/2019 04:39	WG1362918
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/15/2019 04:39	WG1362918
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/15/2019 04:39	WG1362918
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/15/2019 04:39	WG1362918
1,1,2-Trichloroethane	U		0.186	0.500	1	10/15/2019 04:39	WG1362918
Trichloroethene	U		0.153	0.500	1	10/15/2019 04:39	WG1362918
Trichlorofluoromethane	U		0.130	2.50	1	10/15/2019 04:39	WG1362918
1,2,3-Trichloropropane	U		0.247	2.50	1	10/15/2019 04:39	WG1362918
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/15/2019 04:39	WG1362918
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/15/2019 04:39	WG1362918
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/15/2019 04:39	WG1362918
Vinyl acetate	U		0.645	5.00	1	10/15/2019 04:39	WG1362918
Vinyl chloride	29.2		0.118	0.500	1	10/15/2019 04:39	WG1362918
Xylenes, Total	U		0.316	1.50	1	10/15/2019 04:39	WG1362918
(S) Toluene-d8	*102*			*80.0-120*		*10/15/2019 04:39*	WG1362918
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*10/15/2019 04:39*	WG1362918
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*10/15/2019 04:39*	WG1362918

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	235000		2710	20000	1	10/13/2019 15:53	WG1362246

Sample Narrative:

L1146788-08 WG1362246: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	21500		51.9	1000	1	10/05/2019 20:07	WG1357983
Nitrate	788	J T8	22.7	100	1	10/05/2019 20:07	WG1357983
Sulfate	112000		387	25000	5	10/07/2019 10:06	WG1357983

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3280	~~B~~	102	1000	1	10/11/2019 17:36	WG1361291

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	701		15.0	100	1	10/09/2019 00:43	WG1358528
Manganese	865		1.25	25.0	5	10/09/2019 11:20	WG1358528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	31.7		0.287	0.678	1	10/10/2019 14:46	WG1360431
Ethane	U		0.296	1.29	1	10/10/2019 14:46	WG1360431
Ethene	U		0.422	1.27	1	10/10/2019 14:46	WG1360431

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.57	U J J0	1.05	25.0	1	10/15/2019 04:59	WG1362918
Acrylonitrile	U		0.873	5.00	1	10/15/2019 04:59	WG1362918
Benzene	U		0.0896	0.500	1	10/15/2019 04:59	WG1362918
Bromobenzene	U		0.133	0.500	1	10/15/2019 04:59	WG1362918
Bromodichloromethane	U		0.0800	0.500	1	10/15/2019 04:59	WG1362918
Bromochloromethane	U		0.145	0.500	1	10/15/2019 04:59	WG1362918
Bromoform	U		0.186	0.500	1	10/15/2019 04:59	WG1362918
Bromomethane	U		0.157	2.50	1	10/15/2019 04:59	WG1362918
n-Butylbenzene	U		0.143	0.500	1	10/15/2019 04:59	WG1362918
sec-Butylbenzene	U		0.134	0.500	1	10/15/2019 04:59	WG1362918
tert-Butylbenzene	U		0.183	0.500	1	10/15/2019 04:59	WG1362918
Carbon disulfide	U		0.101	0.500	1	10/15/2019 04:59	WG1362918
Carbon tetrachloride	U		0.159	0.500	1	10/15/2019 04:59	WG1362918
Chlorobenzene	U		0.140	0.500	1	10/15/2019 04:59	WG1362918
Chlorodibromomethane	U		0.128	0.500	1	10/15/2019 04:59	WG1362918
Chloroethane	U		0.141	2.50	1	10/15/2019 04:59	WG1362918
Chloroform	U		0.0860	0.500	1	10/15/2019 04:59	WG1362918
Chloromethane	U		0.153	1.25	1	10/15/2019 04:59	WG1362918
2-Chlorotoluene	U		0.111	0.500	1	10/15/2019 04:59	WG1362918
4-Chlorotoluene	U		0.0972	0.500	1	10/15/2019 04:59	WG1362918

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/15/2019 04:59	WG1362918
1,2-Dibromoethane	U		0.193	0.500	1	10/15/2019 04:59	WG1362918
Dibromomethane	U		0.117	0.500	1	10/15/2019 04:59	WG1362918
1,2-Dichlorobenzene	U		0.101	0.500	1	10/15/2019 04:59	WG1362918
1,3-Dichlorobenzene	U		0.130	0.500	1	10/15/2019 04:59	WG1362918
1,4-Dichlorobenzene	U		0.121	0.500	1	10/15/2019 04:59	WG1362918
Dichlorodifluoromethane	U		0.127	2.50	1	10/15/2019 04:59	WG1362918
1,1-Dichloroethane	U		0.114	0.500	1	10/15/2019 04:59	WG1362918
1,2-Dichloroethane	U		0.108	0.500	1	10/15/2019 04:59	WG1362918
1,1-Dichloroethene	U		0.188	0.500	1	10/15/2019 04:59	WG1362918
cis-1,2-Dichloroethene	0.607		0.0933	0.500	1	10/15/2019 04:59	WG1362918
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/15/2019 04:59	WG1362918
1,2-Dichloropropane	U		0.190	0.500	1	10/15/2019 04:59	WG1362918
1,1-Dichloropropene	U		0.128	0.500	1	10/15/2019 04:59	WG1362918
1,3-Dichloropropane	U		0.147	1.00	1	10/15/2019 04:59	WG1362918
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/15/2019 04:59	WG1362918
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/15/2019 04:59	WG1362918
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/15/2019 04:59	WG1362918
2,2-Dichloropropane	U		0.0929	0.500	1	10/15/2019 04:59	WG1362918
Di-isopropyl ether	U		0.0924	0.500	1	10/15/2019 04:59	WG1362918
Ethylbenzene	U		0.158	0.500	1	10/15/2019 04:59	WG1362918
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/15/2019 04:59	WG1362918
2-Hexanone	U		0.757	5.00	1	10/15/2019 04:59	WG1362918
n-Hexane	U		0.305	5.00	1	10/15/2019 04:59	WG1362918
Iodomethane	U		0.377	10.0	1	10/15/2019 04:59	WG1362918
Isopropylbenzene	U		0.126	0.500	1	10/15/2019 04:59	WG1362918
p-Isopropyltoluene	U		0.138	0.500	1	10/15/2019 04:59	WG1362918
2-Butanone (MEK)	U		1.28	5.00	1	10/15/2019 04:59	WG1362918
Methylene Chloride	U		1.07	2.50	1	10/15/2019 04:59	WG1362918
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/15/2019 04:59	WG1362918
Methyl tert-butyl ether	U		0.102	0.500	1	10/15/2019 04:59	WG1362918
Naphthalene	U		0.174	2.50	1	10/15/2019 04:59	WG1362918
n-Propylbenzene	U		0.162	0.500	1	10/15/2019 04:59	WG1362918
Styrene	U		0.117	0.500	1	10/15/2019 04:59	WG1362918
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/15/2019 04:59	WG1362918
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/15/2019 04:59	WG1362918
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/15/2019 04:59	WG1362918
Tetrachloroethene	U		0.199	0.500	1	10/15/2019 04:59	WG1362918
Toluene	U		0.412	0.500	1	10/15/2019 04:59	WG1362918
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/15/2019 04:59	WG1362918
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/15/2019 04:59	WG1362918
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/15/2019 04:59	WG1362918
1,1,2-Trichloroethane	U		0.186	0.500	1	10/15/2019 04:59	WG1362918
Trichloroethene	U		0.153	0.500	1	10/15/2019 04:59	WG1362918
Trichlorofluoromethane	U		0.130	2.50	1	10/15/2019 04:59	WG1362918
1,2,3-Trichloropropane	U		0.247	2.50	1	10/15/2019 04:59	WG1362918
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/15/2019 04:59	WG1362918
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/15/2019 04:59	WG1362918
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/15/2019 04:59	WG1362918
Vinyl acetate	U		0.645	5.00	1	10/15/2019 04:59	WG1362918
Vinyl chloride	U		0.118	0.500	1	10/15/2019 04:59	WG1362918
Xylenes, Total	U		0.316	1.50	1	10/15/2019 04:59	WG1362918
(S) Toluene-d8	*102*			*80.0-120*		*10/15/2019 04:59*	WG1362918
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/15/2019 04:59*	WG1362918
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*10/15/2019 04:59*	WG1362918

JC 11/25/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	209000		2710	20000	1	10/13/2019 16:00	WG1362246

Sample Narrative:

L1146788-09 WG1362246: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	17100		51.9	1000	1	10/05/2019 20:56	WG1357983
Nitrate	U UJ	T8	22.7	100	1	10/05/2019 20:56	WG1357983
Sulfate	89700		77.4	5000	1	10/05/2019 20:56	WG1357983

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	12900		102	1000	1	10/11/2019 17:55	WG1361291

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2630		75.0	500	5	10/09/2019 11:24	WG1358528
Manganese	347		1.25	25.0	5	10/09/2019 11:24	WG1358528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	99.4		0.287	0.678	1	10/10/2019 14:49	WG1360431
Ethane	25.0		0.296	1.29	1	10/10/2019 14:49	WG1360431
Ethene	8.23		0.422	1.27	1	10/10/2019 14:49	WG1360431

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	4.34 U	J J0	1.05	25.0	1	10/15/2019 05:20	WG1362918
Acrylonitrile	U		0.873	5.00	1	10/15/2019 05:20	WG1362918
Benzene	U		0.0896	0.500	1	10/15/2019 05:20	WG1362918
Bromobenzene	U		0.133	0.500	1	10/15/2019 05:20	WG1362918
Bromodichloromethane	U		0.0800	0.500	1	10/15/2019 05:20	WG1362918
Bromochloromethane	U		0.145	0.500	1	10/15/2019 05:20	WG1362918
Bromoform	U		0.186	0.500	1	10/15/2019 05:20	WG1362918
Bromomethane	U		0.157	2.50	1	10/15/2019 05:20	WG1362918
n-Butylbenzene	U		0.143	0.500	1	10/15/2019 05:20	WG1362918
sec-Butylbenzene	U		0.134	0.500	1	10/15/2019 05:20	WG1362918
tert-Butylbenzene	U		0.183	0.500	1	10/15/2019 05:20	WG1362918
Carbon disulfide	4.09		0.101	0.500	1	10/15/2019 05:20	WG1362918
Carbon tetrachloride	U		0.159	0.500	1	10/15/2019 05:20	WG1362918
Chlorobenzene	U		0.140	0.500	1	10/15/2019 05:20	WG1362918
Chlorodibromomethane	U		0.128	0.500	1	10/15/2019 05:20	WG1362918
Chloroethane	U		0.141	2.50	1	10/15/2019 05:20	WG1362918
Chloroform	U		0.0860	0.500	1	10/15/2019 05:20	WG1362918
Chloromethane	U		0.153	1.25	1	10/15/2019 05:20	WG1362918
2-Chlorotoluene	U		0.111	0.500	1	10/15/2019 05:20	WG1362918
4-Chlorotoluene	U		0.0972	0.500	1	10/15/2019 05:20	WG1362918

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/15/2019 05:20	WG1362918
1,2-Dibromoethane	U		0.193	0.500	1	10/15/2019 05:20	WG1362918
Dibromomethane	U		0.117	0.500	1	10/15/2019 05:20	WG1362918
1,2-Dichlorobenzene	U		0.101	0.500	1	10/15/2019 05:20	WG1362918
1,3-Dichlorobenzene	U		0.130	0.500	1	10/15/2019 05:20	WG1362918
1,4-Dichlorobenzene	U		0.121	0.500	1	10/15/2019 05:20	WG1362918
Dichlorodifluoromethane	U		0.127	2.50	1	10/15/2019 05:20	WG1362918
1,1-Dichloroethane	U		0.114	0.500	1	10/15/2019 05:20	WG1362918
1,2-Dichloroethane	U		0.108	0.500	1	10/15/2019 05:20	WG1362918
1,1-Dichloroethene	U		0.188	0.500	1	10/15/2019 05:20	WG1362918
cis-1,2-Dichloroethene	6.87		0.0933	0.500	1	10/15/2019 05:20	WG1362918
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/15/2019 05:20	WG1362918
1,2-Dichloropropane	U		0.190	0.500	1	10/15/2019 05:20	WG1362918
1,1-Dichloropropene	U		0.128	0.500	1	10/15/2019 05:20	WG1362918
1,3-Dichloropropane	U		0.147	1.00	1	10/15/2019 05:20	WG1362918
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/15/2019 05:20	WG1362918
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/15/2019 05:20	WG1362918
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/15/2019 05:20	WG1362918
2,2-Dichloropropane	U		0.0929	0.500	1	10/15/2019 05:20	WG1362918
Di-isopropyl ether	U		0.0924	0.500	1	10/15/2019 05:20	WG1362918
Ethylbenzene	U		0.158	0.500	1	10/15/2019 05:20	WG1362918
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/15/2019 05:20	WG1362918
2-Hexanone	U		0.757	5.00	1	10/15/2019 05:20	WG1362918
n-Hexane	U		0.305	5.00	1	10/15/2019 05:20	WG1362918
Iodomethane	U		0.377	10.0	1	10/15/2019 05:20	WG1362918
Isopropylbenzene	U		0.126	0.500	1	10/15/2019 05:20	WG1362918
p-Isopropyltoluene	U		0.138	0.500	1	10/15/2019 05:20	WG1362918
2-Butanone (MEK)	U		1.28	5.00	1	10/15/2019 05:20	WG1362918
Methylene Chloride	U		1.07	2.50	1	10/15/2019 05:20	WG1362918
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/15/2019 05:20	WG1362918
Methyl tert-butyl ether	U		0.102	0.500	1	10/15/2019 05:20	WG1362918
Naphthalene	U		0.174	2.50	1	10/15/2019 05:20	WG1362918
n-Propylbenzene	U		0.162	0.500	1	10/15/2019 05:20	WG1362918
Styrene	U		0.117	0.500	1	10/15/2019 05:20	WG1362918
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/15/2019 05:20	WG1362918
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/15/2019 05:20	WG1362918
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/15/2019 05:20	WG1362918
Tetrachloroethene	0.769		0.199	0.500	1	10/15/2019 05:20	WG1362918
Toluene	1.31		0.412	0.500	1	10/15/2019 05:20	WG1362918
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/15/2019 05:20	WG1362918
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/15/2019 05:20	WG1362918
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/15/2019 05:20	WG1362918
1,1,2-Trichloroethane	U		0.186	0.500	1	10/15/2019 05:20	WG1362918
Trichloroethene	0.297	J	0.153	0.500	1	10/15/2019 05:20	WG1362918
Trichlorofluoromethane	U		0.130	2.50	1	10/15/2019 05:20	WG1362918
1,2,3-Trichloropropane	U		0.247	2.50	1	10/15/2019 05:20	WG1362918
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/15/2019 05:20	WG1362918
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/15/2019 05:20	WG1362918
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/15/2019 05:20	WG1362918
Vinyl acetate	U		0.645	5.00	1	10/15/2019 05:20	WG1362918
Vinyl chloride	U		0.118	0.500	1	10/15/2019 05:20	WG1362918
Xylenes, Total	U		0.316	1.50	1	10/15/2019 05:20	WG1362918
(S) Toluene-d8	*103*			*80.0-120*		*10/15/2019 05:20*	WG1362918
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/15/2019 05:20*	WG1362918
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*10/15/2019 05:20*	WG1362918

JC 11/25/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	581000		2710	20000	1	10/13/2019 16:07	WG1362246

Sample Narrative:

L1146788-10 WG1362246: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	56100		51.9	1000	1	10/05/2019 14:53	WG1357983
Nitrate	U UJ	T8	22.7	100	1	10/05/2019 14:53	WG1357983
Sulfate	11400		77.4	5000	1	10/05/2019 14:53	WG1357983

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4820	~~B~~	102	1000	1	10/11/2019 18:16	WG1361291

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	7710		300	2000	20	10/09/2019 11:28	WG1358528
Manganese	2210		5.00	100	20	10/09/2019 11:28	WG1358528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	591		0.287	0.678	1	10/10/2019 14:51	WG1360431
Ethane	19.9		0.296	1.29	1	10/10/2019 14:51	WG1360431
Ethene	U		0.422	1.27	1	10/10/2019 14:51	WG1360431

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.15 U	J J0	1.05	25.0	1	10/15/2019 05:41	WG1362918
Acrylonitrile	U		0.873	5.00	1	10/15/2019 05:41	WG1362918
Benzene	0.206	J	0.0896	0.500	1	10/15/2019 05:41	WG1362918
Bromobenzene	U		0.133	0.500	1	10/15/2019 05:41	WG1362918
Bromodichloromethane	U		0.0800	0.500	1	10/15/2019 05:41	WG1362918
Bromochloromethane	U		0.145	0.500	1	10/15/2019 05:41	WG1362918
Bromoform	U		0.186	0.500	1	10/15/2019 05:41	WG1362918
Bromomethane	U		0.157	2.50	1	10/15/2019 05:41	WG1362918
n-Butylbenzene	U		0.143	0.500	1	10/15/2019 05:41	WG1362918
sec-Butylbenzene	U		0.134	0.500	1	10/15/2019 05:41	WG1362918
tert-Butylbenzene	U		0.183	0.500	1	10/15/2019 05:41	WG1362918
Carbon disulfide	U		0.101	0.500	1	10/15/2019 05:41	WG1362918
Carbon tetrachloride	U		0.159	0.500	1	10/15/2019 05:41	WG1362918
Chlorobenzene	U		0.140	0.500	1	10/15/2019 05:41	WG1362918
Chlorodibromomethane	U		0.128	0.500	1	10/15/2019 05:41	WG1362918
Chloroethane	U		0.141	2.50	1	10/15/2019 05:41	WG1362918
Chloroform	U		0.0860	0.500	1	10/15/2019 05:41	WG1362918
Chloromethane	U		0.153	1.25	1	10/15/2019 05:41	WG1362918
2-Chlorotoluene	U		0.111	0.500	1	10/15/2019 05:41	WG1362918
4-Chlorotoluene	U		0.0972	0.500	1	10/15/2019 05:41	WG1362918

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/15/2019 05:41	WG1362918
1,2-Dibromoethane	U		0.193	0.500	1	10/15/2019 05:41	WG1362918
Dibromomethane	U		0.117	0.500	1	10/15/2019 05:41	WG1362918
1,2-Dichlorobenzene	U		0.101	0.500	1	10/15/2019 05:41	WG1362918
1,3-Dichlorobenzene	U		0.130	0.500	1	10/15/2019 05:41	WG1362918
1,4-Dichlorobenzene	U		0.121	0.500	1	10/15/2019 05:41	WG1362918
Dichlorodifluoromethane	U		0.127	2.50	1	10/15/2019 05:41	WG1362918
1,1-Dichloroethane	U		0.114	0.500	1	10/15/2019 05:41	WG1362918
1,2-Dichloroethane	U		0.108	0.500	1	10/15/2019 05:41	WG1362918
1,1-Dichloroethene	U		0.188	0.500	1	10/15/2019 05:41	WG1362918
cis-1,2-Dichloroethene	9.25		0.0933	0.500	1	10/15/2019 05:41	WG1362918
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/15/2019 05:41	WG1362918
1,2-Dichloropropane	U		0.190	0.500	1	10/15/2019 05:41	WG1362918
1,1-Dichloropropene	U		0.128	0.500	1	10/15/2019 05:41	WG1362918
1,3-Dichloropropane	U		0.147	1.00	1	10/15/2019 05:41	WG1362918
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/15/2019 05:41	WG1362918
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/15/2019 05:41	WG1362918
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/15/2019 05:41	WG1362918
2,2-Dichloropropane	U		0.0929	0.500	1	10/15/2019 05:41	WG1362918
Di-isopropyl ether	U		0.0924	0.500	1	10/15/2019 05:41	WG1362918
Ethylbenzene	U		0.158	0.500	1	10/15/2019 05:41	WG1362918
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/15/2019 05:41	WG1362918
2-Hexanone	U		0.757	5.00	1	10/15/2019 05:41	WG1362918
n-Hexane	U		0.305	5.00	1	10/15/2019 05:41	WG1362918
Iodomethane	U		0.377	10.0	1	10/15/2019 05:41	WG1362918
Isopropylbenzene	U		0.126	0.500	1	10/15/2019 05:41	WG1362918
p-Isopropyltoluene	U		0.138	0.500	1	10/15/2019 05:41	WG1362918
2-Butanone (MEK)	U		1.28	5.00	1	10/15/2019 05:41	WG1362918
Methylene Chloride	U		1.07	2.50	1	10/15/2019 05:41	WG1362918
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/15/2019 05:41	WG1362918
Methyl tert-butyl ether	U		0.102	0.500	1	10/15/2019 05:41	WG1362918
Naphthalene	U		0.174	2.50	1	10/15/2019 05:41	WG1362918
n-Propylbenzene	U		0.162	0.500	1	10/15/2019 05:41	WG1362918
Styrene	U		0.117	0.500	1	10/15/2019 05:41	WG1362918
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/15/2019 05:41	WG1362918
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/15/2019 05:41	WG1362918
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/15/2019 05:41	WG1362918
Tetrachloroethene	U		0.199	0.500	1	10/15/2019 05:41	WG1362918
Toluene	0.435	J	0.412	0.500	1	10/15/2019 05:41	WG1362918
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/15/2019 05:41	WG1362918
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/15/2019 05:41	WG1362918
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/15/2019 05:41	WG1362918
1,1,2-Trichloroethane	U		0.186	0.500	1	10/15/2019 05:41	WG1362918
Trichloroethene	U		0.153	0.500	1	10/15/2019 05:41	WG1362918
Trichlorofluoromethane	U		0.130	2.50	1	10/15/2019 05:41	WG1362918
1,2,3-Trichloropropane	U		0.247	2.50	1	10/15/2019 05:41	WG1362918
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/15/2019 05:41	WG1362918
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/15/2019 05:41	WG1362918
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/15/2019 05:41	WG1362918
Vinyl acetate	U		0.645	5.00	1	10/15/2019 05:41	WG1362918
Vinyl chloride	28.8		0.118	0.500	1	10/15/2019 05:41	WG1362918
Xylenes, Total	U		0.316	1.50	1	10/15/2019 05:41	WG1362918
(S) Toluene-d8	*102*			*80.0-120*		*10/15/2019 05:41*	WG1362918
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*10/15/2019 05:41*	WG1362918
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/15/2019 05:41*	WG1362918

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	1780000		13600	100000	5	10/13/2019 16:21	WG1362246

Sample Narrative:

L1147264-01 WG1362246: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	12700		51.9	1000	1	10/08/2019 13:48	WG1359094
Nitrate	U		22.7	100	1	10/08/2019 13:48	WG1359094
Sulfate	5080		77.4	5000	1	10/08/2019 13:48	WG1359094

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8510		102	1000	1	10/12/2019 12:37	WG1361291

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1600		15.0	100	1	10/11/2019 17:01	WG1360463
Manganese	2370		5.00	100	20	10/11/2019 18:28	WG1360463

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	264		0.287	0.678	1	10/09/2019 15:54	WG1359638
Ethane	U		0.296	1.29	1	10/09/2019 15:54	WG1359638
Ethene	U		0.422	1.27	1	10/09/2019 15:54	WG1359638

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.81 U	J J0	1.05	25.0	1	10/15/2019 06:42	WG1362918
Acrylonitrile	U		0.873	5.00	1	10/15/2019 06:42	WG1362918
Benzene	U		0.0896	0.500	1	10/15/2019 06:42	WG1362918
Bromobenzene	U		0.133	0.500	1	10/15/2019 06:42	WG1362918
Bromodichloromethane	U		0.0800	0.500	1	10/15/2019 06:42	WG1362918
Bromochloromethane	U		0.145	0.500	1	10/15/2019 06:42	WG1362918
Bromoform	U		0.186	0.500	1	10/15/2019 06:42	WG1362918
Bromomethane	U		0.157	2.50	1	10/15/2019 06:42	WG1362918
n-Butylbenzene	0.200	J	0.143	0.500	1	10/15/2019 06:42	WG1362918
sec-Butylbenzene	2.82		0.134	0.500	1	10/15/2019 06:42	WG1362918
tert-Butylbenzene	1.89		0.183	0.500	1	10/15/2019 06:42	WG1362918
Carbon disulfide	U		0.101	0.500	1	10/15/2019 06:42	WG1362918
Carbon tetrachloride	U		0.159	0.500	1	10/15/2019 06:42	WG1362918
Chlorobenzene	U		0.140	0.500	1	10/15/2019 06:42	WG1362918
Chlorodibromomethane	U		0.128	0.500	1	10/15/2019 06:42	WG1362918
Chloroethane	U		0.141	2.50	1	10/15/2019 06:42	WG1362918
Chloroform	U		0.0860	0.500	1	10/15/2019 06:42	WG1362918
Chloromethane	U		0.153	1.25	1	10/15/2019 06:42	WG1362918
2-Chlorotoluene	U		0.111	0.500	1	10/15/2019 06:42	WG1362918
4-Chlorotoluene	U		0.0972	0.500	1	10/15/2019 06:42	WG1362918

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/15/2019 06:42	WG1362918
1,2-Dibromoethane	U		0.193	0.500	1	10/15/2019 06:42	WG1362918
Dibromomethane	U		0.117	0.500	1	10/15/2019 06:42	WG1362918
1,2-Dichlorobenzene	U		0.101	0.500	1	10/15/2019 06:42	WG1362918
1,3-Dichlorobenzene	U		0.130	0.500	1	10/15/2019 06:42	WG1362918
1,4-Dichlorobenzene	U		0.121	0.500	1	10/15/2019 06:42	WG1362918
Dichlorodifluoromethane	U		0.127	2.50	1	10/15/2019 06:42	WG1362918
1,1-Dichloroethane	U		0.114	0.500	1	10/15/2019 06:42	WG1362918
1,2-Dichloroethane	U		0.108	0.500	1	10/15/2019 06:42	WG1362918
1,1-Dichloroethene	U		0.188	0.500	1	10/15/2019 06:42	WG1362918
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/15/2019 06:42	WG1362918
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/15/2019 06:42	WG1362918
1,2-Dichloropropane	U		0.190	0.500	1	10/15/2019 06:42	WG1362918
1,1-Dichloropropene	U		0.128	0.500	1	10/15/2019 06:42	WG1362918
1,3-Dichloropropane	U		0.147	1.00	1	10/15/2019 06:42	WG1362918
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/15/2019 06:42	WG1362918
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/15/2019 06:42	WG1362918
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/15/2019 06:42	WG1362918
2,2-Dichloropropane	U		0.0929	0.500	1	10/15/2019 06:42	WG1362918
Di-isopropyl ether	U		0.0924	0.500	1	10/15/2019 06:42	WG1362918
Ethylbenzene	U		0.158	0.500	1	10/15/2019 06:42	WG1362918
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/15/2019 06:42	WG1362918
2-Hexanone	U		0.757	5.00	1	10/15/2019 06:42	WG1362918
n-Hexane	U		0.305	5.00	1	10/15/2019 06:42	WG1362918
Iodomethane	U		0.377	10.0	1	10/15/2019 06:42	WG1362918
Isopropylbenzene	2.62		0.126	0.500	1	10/15/2019 06:42	WG1362918
p-Isopropyltoluene	U		0.138	0.500	1	10/15/2019 06:42	WG1362918
2-Butanone (MEK)	U		1.28	5.00	1	10/15/2019 06:42	WG1362918
Methylene Chloride	U		1.07	2.50	1	10/15/2019 06:42	WG1362918
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/15/2019 06:42	WG1362918
Methyl tert-butyl ether	U		0.102	0.500	1	10/15/2019 06:42	WG1362918
Naphthalene	U		0.174	2.50	1	10/15/2019 06:42	WG1362918
n-Propylbenzene	3.22		0.162	0.500	1	10/15/2019 06:42	WG1362918
Styrene	U		0.117	0.500	1	10/15/2019 06:42	WG1362918
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/15/2019 06:42	WG1362918
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/15/2019 06:42	WG1362918
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/15/2019 06:42	WG1362918
Tetrachloroethene	U		0.199	0.500	1	10/15/2019 06:42	WG1362918
Toluene	0.459	J	0.412	0.500	1	10/15/2019 06:42	WG1362918
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/15/2019 06:42	WG1362918
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/15/2019 06:42	WG1362918
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/15/2019 06:42	WG1362918
1,1,2-Trichloroethane	U		0.186	0.500	1	10/15/2019 06:42	WG1362918
Trichloroethene	U		0.153	0.500	1	10/15/2019 06:42	WG1362918
Trichlorofluoromethane	U		0.130	2.50	1	10/15/2019 06:42	WG1362918
1,2,3-Trichloropropane	U		0.247	2.50	1	10/15/2019 06:42	WG1362918
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/15/2019 06:42	WG1362918
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/15/2019 06:42	WG1362918
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/15/2019 06:42	WG1362918
Vinyl acetate	U		0.645	5.00	1	10/15/2019 06:42	WG1362918
Vinyl chloride	U		0.118	0.500	1	10/15/2019 06:42	WG1362918
Xylenes, Total	U		0.316	1.50	1	10/15/2019 06:42	WG1362918
(S) Toluene-d8	*80.5*			*80.0-120*		*10/15/2019 06:42*	WG1362918
(S) 4-Bromofluorobenzene	*89.1*			*77.0-126*		*10/15/2019 06:42*	WG1362918
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*10/15/2019 06:42*	WG1362918

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	841000		2710	20000	1	10/13/2019 16:28	WG1362246

Sample Narrative:

L1147264-02 WG1362246: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	30400		51.9	1000	1	10/08/2019 14:32	WG1359094
Nitrate	U		22.7	100	1	10/08/2019 14:32	WG1359094
Sulfate	21100		77.4	5000	1	10/08/2019 14:32	WG1359094

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	19400		102	1000	1	10/12/2019 13:02	WG1361291

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	43900		750	5000	50	10/11/2019 18:32	WG1360463
Manganese	4260		12.5	250	50	10/11/2019 18:32	WG1360463

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3090		0.287	0.678	1	10/09/2019 16:02	WG1359638
Ethane	59.1		0.296	1.29	1	10/09/2019 16:02	WG1359638
Ethene	20.8		0.422	1.27	1	10/09/2019 16:02	WG1359638

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.40 U	J J0	1.05	25.0	1	10/15/2019 07:03	WG1362918
Acrylonitrile	U		0.873	5.00	1	10/15/2019 07:03	WG1362918
Benzene	7.12		0.0896	0.500	1	10/15/2019 07:03	WG1362918
Bromobenzene	U		0.133	0.500	1	10/15/2019 07:03	WG1362918
Bromodichloromethane	U		0.0800	0.500	1	10/15/2019 07:03	WG1362918
Bromochloromethane	U		0.145	0.500	1	10/15/2019 07:03	WG1362918
Bromoform	U		0.186	0.500	1	10/15/2019 07:03	WG1362918
Bromomethane	U		0.157	2.50	1	10/15/2019 07:03	WG1362918
n-Butylbenzene	U		0.143	0.500	1	10/15/2019 07:03	WG1362918
sec-Butylbenzene	U		0.134	0.500	1	10/15/2019 07:03	WG1362918
tert-Butylbenzene	U		0.183	0.500	1	10/15/2019 07:03	WG1362918
Carbon disulfide	U		0.101	0.500	1	10/15/2019 07:03	WG1362918
Carbon tetrachloride	U		0.159	0.500	1	10/15/2019 07:03	WG1362918
Chlorobenzene	U		0.140	0.500	1	10/15/2019 07:03	WG1362918
Chlorodibromomethane	U		0.128	0.500	1	10/15/2019 07:03	WG1362918
Chloroethane	U		0.141	2.50	1	10/15/2019 07:03	WG1362918
Chloroform	U		0.0860	0.500	1	10/15/2019 07:03	WG1362918
Chloromethane	U		0.153	1.25	1	10/15/2019 07:03	WG1362918
2-Chlorotoluene	U		0.111	0.500	1	10/15/2019 07:03	WG1362918
4-Chlorotoluene	U		0.0972	0.500	1	10/15/2019 07:03	WG1362918

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/15/2019 07:03	WG1362918
1,2-Dibromoethane	U		0.193	0.500	1	10/15/2019 07:03	WG1362918
Dibromomethane	U		0.117	0.500	1	10/15/2019 07:03	WG1362918
1,2-Dichlorobenzene	U		0.101	0.500	1	10/15/2019 07:03	WG1362918
1,3-Dichlorobenzene	U		0.130	0.500	1	10/15/2019 07:03	WG1362918
1,4-Dichlorobenzene	U		0.121	0.500	1	10/15/2019 07:03	WG1362918
Dichlorodifluoromethane	U		0.127	2.50	1	10/15/2019 07:03	WG1362918
1,1-Dichloroethane	U		0.114	0.500	1	10/15/2019 07:03	WG1362918
1,2-Dichloroethane	U		0.108	0.500	1	10/15/2019 07:03	WG1362918
1,1-Dichloroethene	1.23		0.188	0.500	1	10/15/2019 07:03	WG1362918
cis-1,2-Dichloroethene	497		1.87	10.0	20	10/15/2019 17:47	WG1363245
trans-1,2-Dichloroethene	1.17		0.152	0.500	1	10/15/2019 07:03	WG1362918
1,2-Dichloropropane	U		0.190	0.500	1	10/15/2019 07:03	WG1362918
1,1-Dichloropropene	U		0.128	0.500	1	10/15/2019 07:03	WG1362918
1,3-Dichloropropane	U		0.147	1.00	1	10/15/2019 07:03	WG1362918
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/15/2019 07:03	WG1362918
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/15/2019 07:03	WG1362918
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/15/2019 07:03	WG1362918
2,2-Dichloropropane	U		0.0929	0.500	1	10/15/2019 07:03	WG1362918
Di-isopropyl ether	0.112	J	0.0924	0.500	1	10/15/2019 07:03	WG1362918
Ethylbenzene	U		0.158	0.500	1	10/15/2019 07:03	WG1362918
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/15/2019 07:03	WG1362918
2-Hexanone	U		0.757	5.00	1	10/15/2019 07:03	WG1362918
n-Hexane	U		0.305	5.00	1	10/15/2019 07:03	WG1362918
Iodomethane	U		0.377	10.0	1	10/15/2019 07:03	WG1362918
Isopropylbenzene	U		0.126	0.500	1	10/15/2019 07:03	WG1362918
p-Isopropyltoluene	U		0.138	0.500	1	10/15/2019 07:03	WG1362918
2-Butanone (MEK)	U		1.28	5.00	1	10/15/2019 07:03	WG1362918
Methylene Chloride	U		1.07	2.50	1	10/15/2019 07:03	WG1362918
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/15/2019 07:03	WG1362918
Methyl tert-butyl ether	U		0.102	0.500	1	10/15/2019 07:03	WG1362918
Naphthalene	U		0.174	2.50	1	10/15/2019 07:03	WG1362918
n-Propylbenzene	U		0.162	0.500	1	10/15/2019 07:03	WG1362918
Styrene	U		0.117	0.500	1	10/15/2019 07:03	WG1362918
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/15/2019 07:03	WG1362918
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/15/2019 07:03	WG1362918
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/15/2019 07:03	WG1362918
Tetrachloroethene	0.699		0.199	0.500	1	10/15/2019 07:03	WG1362918
Toluene	0.612		0.412	0.500	1	10/15/2019 07:03	WG1362918
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/15/2019 07:03	WG1362918
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/15/2019 07:03	WG1362918
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/15/2019 07:03	WG1362918
1,1,2-Trichloroethane	U		0.186	0.500	1	10/15/2019 07:03	WG1362918
Trichloroethene	21.0		0.153	0.500	1	10/15/2019 07:03	WG1362918
Trichlorofluoromethane	U		0.130	2.50	1	10/15/2019 07:03	WG1362918
1,2,3-Trichloropropane	U		0.247	2.50	1	10/15/2019 07:03	WG1362918
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/15/2019 07:03	WG1362918
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/15/2019 07:03	WG1362918
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/15/2019 07:03	WG1362918
Vinyl acetate	U		0.645	5.00	1	10/15/2019 07:03	WG1362918
Vinyl chloride	268		2.36	10.0	20	10/15/2019 17:47	WG1363245
Xylenes, Total	U		0.316	1.50	1	10/15/2019 07:03	WG1362918
(S) Toluene-d8	*103*			*80.0-120*		*10/15/2019 07:03*	WG1362918
(S) Toluene-d8	*96.5*			*80.0-120*		*10/15/2019 17:47*	WG1363245
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*10/15/2019 07:03*	WG1362918
(S) 4-Bromofluorobenzene	*94.9*			*77.0-126*		*10/15/2019 17:47*	WG1363245

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*10/15/2019 07:03*	WG1362918
(S) 1,2-Dichloroethane-d4	*86.3*			*70.0-130*		*10/15/2019 17:47*	WG1363245

JC 11/25/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	339000		2710	20000	1	10/15/2019 14:51	WG1362380

Sample Narrative:

L1147791-01 WG1362380: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	24100		51.9	1000	1	10/09/2019 17:14	WG1359667
Nitrate	U		22.7	100	1	10/09/2019 17:14	WG1359667
Sulfate	119000		387	25000	5	10/10/2019 09:51	WG1359667

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6730		102	1000	1	10/13/2019 18:41	WG1362294

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	11700		300	2000	20	10/13/2019 21:58	WG1360694
Manganese	2330		5.00	100	20	10/13/2019 21:58	WG1360694

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	355		0.287	0.678	1	10/12/2019 07:37	WG1361751
Ethane	12.8		0.296	1.29	1	10/12/2019 07:37	WG1361751
Ethene	U		0.422	1.27	1	10/12/2019 07:37	WG1361751

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.15 U	J	1.05	25.0	1	10/17/2019 17:04	WG1364657
Acrylonitrile	U		0.873	5.00	1	10/17/2019 17:04	WG1364657
Benzene	5.75		0.0896	0.500	1	10/17/2019 17:04	WG1364657
Bromobenzene	U		0.133	0.500	1	10/17/2019 17:04	WG1364657
Bromodichloromethane	U		0.0800	0.500	1	10/17/2019 17:04	WG1364657
Bromochloromethane	U		0.145	0.500	1	10/17/2019 17:04	WG1364657
Bromoform	U		0.186	0.500	1	10/17/2019 17:04	WG1364657
Bromomethane	U		0.157	2.50	1	10/17/2019 17:04	WG1364657
n-Butylbenzene	U		0.143	0.500	1	10/17/2019 17:04	WG1364657
sec-Butylbenzene	U		0.134	0.500	1	10/17/2019 17:04	WG1364657
tert-Butylbenzene	U		0.183	0.500	1	10/17/2019 17:04	WG1364657
Carbon disulfide	U		0.101	0.500	1	10/17/2019 17:04	WG1364657
Carbon tetrachloride	U		0.159	0.500	1	10/17/2019 17:04	WG1364657
Chlorobenzene	U		0.140	0.500	1	10/17/2019 17:04	WG1364657
Chlorodibromomethane	U		0.128	0.500	1	10/17/2019 17:04	WG1364657
Chloroethane	U		0.141	2.50	1	10/17/2019 17:04	WG1364657
Chloroform	U		0.0860	0.500	1	10/17/2019 17:04	WG1364657
Chloromethane	U		0.153	1.25	1	10/17/2019 17:04	WG1364657
2-Chlorotoluene	U		0.111	0.500	1	10/17/2019 17:04	WG1364657
4-Chlorotoluene	U		0.0972	0.500	1	10/17/2019 17:04	WG1364657

JC 11/25/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/17/2019 17:04	WG1364657
1,2-Dibromoethane	U		0.193	0.500	1	10/17/2019 17:04	WG1364657
Dibromomethane	U		0.117	0.500	1	10/17/2019 17:04	WG1364657
1,2-Dichlorobenzene	U		0.101	0.500	1	10/17/2019 17:04	WG1364657
1,3-Dichlorobenzene	U		0.130	0.500	1	10/17/2019 17:04	WG1364657
1,4-Dichlorobenzene	U		0.121	0.500	1	10/17/2019 17:04	WG1364657
Dichlorodifluoromethane	U		0.127	2.50	1	10/17/2019 17:04	WG1364657
1,1-Dichloroethane	0.490	J	0.114	0.500	1	10/17/2019 17:04	WG1364657
1,2-Dichloroethane	1.55		0.108	0.500	1	10/17/2019 17:04	WG1364657
1,1-Dichloroethene	U		0.188	0.500	1	10/17/2019 17:04	WG1364657
cis-1,2-Dichloroethene	6.52		0.0933	0.500	1	10/17/2019 17:04	WG1364657
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/17/2019 17:04	WG1364657
1,2-Dichloropropane	0.274	J	0.190	0.500	1	10/17/2019 17:04	WG1364657
1,1-Dichloropropene	U		0.128	0.500	1	10/17/2019 17:04	WG1364657
1,3-Dichloropropane	U		0.147	1.00	1	10/17/2019 17:04	WG1364657
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/17/2019 17:04	WG1364657
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/17/2019 17:04	WG1364657
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/17/2019 17:04	WG1364657
2,2-Dichloropropane	U		0.0929	0.500	1	10/17/2019 17:04	WG1364657
Di-isopropyl ether	U		0.0924	0.500	1	10/17/2019 17:04	WG1364657
Ethylbenzene	U		0.158	0.500	1	10/17/2019 17:04	WG1364657
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/17/2019 17:04	WG1364657
2-Hexanone	U		0.757	5.00	1	10/17/2019 17:04	WG1364657
n-Hexane	U		0.305	5.00	1	10/17/2019 17:04	WG1364657
Iodomethane	U		0.377	10.0	1	10/17/2019 17:04	WG1364657
Isopropylbenzene	U		0.126	0.500	1	10/17/2019 17:04	WG1364657
p-Isopropyltoluene	U		0.138	0.500	1	10/17/2019 17:04	WG1364657
2-Butanone (MEK)	U		1.28	5.00	1	10/17/2019 17:04	WG1364657
Methylene Chloride	U		1.07	2.50	1	10/17/2019 17:04	WG1364657
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/17/2019 17:04	WG1364657
Methyl tert-butyl ether	U		0.102	0.500	1	10/17/2019 17:04	WG1364657
Naphthalene	U		0.174	2.50	1	10/17/2019 17:04	WG1364657
n-Propylbenzene	U		0.162	0.500	1	10/17/2019 17:04	WG1364657
Styrene	U		0.117	0.500	1	10/17/2019 17:04	WG1364657
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/17/2019 17:04	WG1364657
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/17/2019 17:04	WG1364657
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/17/2019 17:04	WG1364657
Tetrachloroethene	U		0.199	0.500	1	10/17/2019 17:04	WG1364657
Toluene	0.495	J	0.412	0.500	1	10/17/2019 17:04	WG1364657
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/17/2019 17:04	WG1364657
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/17/2019 17:04	WG1364657
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/17/2019 17:04	WG1364657
1,1,2-Trichloroethane	U		0.186	0.500	1	10/17/2019 17:04	WG1364657
Trichloroethene	U		0.153	0.500	1	10/17/2019 17:04	WG1364657
Trichlorofluoromethane	U		0.130	2.50	1	10/17/2019 17:04	WG1364657
1,2,3-Trichloropropane	U		0.247	2.50	1	10/17/2019 17:04	WG1364657
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/17/2019 17:04	WG1364657
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/17/2019 17:04	WG1364657
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/17/2019 17:04	WG1364657
Vinyl acetate	U		0.645	5.00	1	10/17/2019 17:04	WG1364657
Vinyl chloride	8.65		0.118	0.500	1	10/17/2019 17:04	WG1364657
Xylenes, Total	U		0.316	1.50	1	10/17/2019 17:04	WG1364657
(S) Toluene-d8	*112*			*80.0-120*		*10/17/2019 17:04*	WG1364657
(S) 4-Bromofluorobenzene	*115*			*77.0-126*		*10/17/2019 17:04*	WG1364657
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*10/17/2019 17:04*	WG1364657

JC 11/25/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	234000		2710	20000	1	10/15/2019 14:58	WG1362380

Sample Narrative:

L1147791-02 WG1362380: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	16500		51.9	1000	1	10/09/2019 16:21	WG1359967
Nitrate	U		22.7	100	1	10/09/2019 16:21	WG1359967
Sulfate	85000		77.4	5000	1	10/09/2019 16:21	WG1359967

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1680	~~B~~	102	1000	1	10/12/2019 14:04	WG1361408

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	4300		75.0	500	5	10/13/2019 22:03	WG1360694
Manganese	854		1.25	25.0	5	10/13/2019 22:03	WG1360694

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	152		0.287	0.678	1	10/12/2019 07:40	WG1361751
Ethane	U		0.296	1.29	1	10/12/2019 07:40	WG1361751
Ethene	U		0.422	1.27	1	10/12/2019 07:40	WG1361751

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	10/17/2019 17:24	WG1364657
Acrylonitrile	U		0.873	5.00	1	10/17/2019 17:24	WG1364657
Benzene	U		0.0896	0.500	1	10/17/2019 17:24	WG1364657
Bromobenzene	U		0.133	0.500	1	10/17/2019 17:24	WG1364657
Bromodichloromethane	U		0.0800	0.500	1	10/17/2019 17:24	WG1364657
Bromochloromethane	U		0.145	0.500	1	10/17/2019 17:24	WG1364657
Bromoform	U		0.186	0.500	1	10/17/2019 17:24	WG1364657
Bromomethane	U		0.157	2.50	1	10/17/2019 17:24	WG1364657
n-Butylbenzene	U		0.143	0.500	1	10/17/2019 17:24	WG1364657
sec-Butylbenzene	U		0.134	0.500	1	10/17/2019 17:24	WG1364657
tert-Butylbenzene	U		0.183	0.500	1	10/17/2019 17:24	WG1364657
Carbon disulfide	0.505		0.101	0.500	1	10/17/2019 17:24	WG1364657
Carbon tetrachloride	U		0.159	0.500	1	10/17/2019 17:24	WG1364657
Chlorobenzene	U		0.140	0.500	1	10/17/2019 17:24	WG1364657
Chlorodibromomethane	U		0.128	0.500	1	10/17/2019 17:24	WG1364657
Chloroethane	U		0.141	2.50	1	10/17/2019 17:24	WG1364657
Chloroform	U		0.0860	0.500	1	10/17/2019 17:24	WG1364657
Chloromethane	U		0.153	1.25	1	10/17/2019 17:24	WG1364657
2-Chlorotoluene	U		0.111	0.500	1	10/17/2019 17:24	WG1364657
4-Chlorotoluene	U		0.0972	0.500	1	10/17/2019 17:24	WG1364657

JC 11/25/19

MW-319-100819

Collected date/time: 10/08/19 12:50

SAMPLE RESULTS - 02

L1147791

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/17/2019 17:24	WG1364657
1,2-Dibromoethane	U		0.193	0.500	1	10/17/2019 17:24	WG1364657
Dibromomethane	U		0.117	0.500	1	10/17/2019 17:24	WG1364657
1,2-Dichlorobenzene	U		0.101	0.500	1	10/17/2019 17:24	WG1364657
1,3-Dichlorobenzene	U		0.130	0.500	1	10/17/2019 17:24	WG1364657
1,4-Dichlorobenzene	U		0.121	0.500	1	10/17/2019 17:24	WG1364657
Dichlorodifluoromethane	U		0.127	2.50	1	10/17/2019 17:24	WG1364657
1,1-Dichloroethane	0.641		0.114	0.500	1	10/17/2019 17:24	WG1364657
1,2-Dichloroethane	0.140	J	0.108	0.500	1	10/17/2019 17:24	WG1364657
1,1-Dichloroethene	0.292	J	0.188	0.500	1	10/17/2019 17:24	WG1364657
cis-1,2-Dichloroethene	53.4		0.0933	0.500	1	10/17/2019 17:24	WG1364657
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/17/2019 17:24	WG1364657
1,2-Dichloropropane	U		0.190	0.500	1	10/17/2019 17:24	WG1364657
1,1-Dichloropropene	U		0.128	0.500	1	10/17/2019 17:24	WG1364657
1,3-Dichloropropane	U		0.147	1.00	1	10/17/2019 17:24	WG1364657
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/17/2019 17:24	WG1364657
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/17/2019 17:24	WG1364657
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/17/2019 17:24	WG1364657
2,2-Dichloropropane	U		0.0929	0.500	1	10/17/2019 17:24	WG1364657
Di-isopropyl ether	U		0.0924	0.500	1	10/17/2019 17:24	WG1364657
Ethylbenzene	U		0.158	0.500	1	10/17/2019 17:24	WG1364657
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/17/2019 17:24	WG1364657
2-Hexanone	U		0.757	5.00	1	10/17/2019 17:24	WG1364657
n-Hexane	U		0.305	5.00	1	10/17/2019 17:24	WG1364657
Iodomethane	U		0.377	10.0	1	10/17/2019 17:24	WG1364657
Isopropylbenzene	U		0.126	0.500	1	10/17/2019 17:24	WG1364657
p-Isopropyltoluene	U		0.138	0.500	1	10/17/2019 17:24	WG1364657
2-Butanone (MEK)	U		1.28	5.00	1	10/17/2019 17:24	WG1364657
Methylene Chloride	U		1.07	2.50	1	10/17/2019 17:24	WG1364657
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/17/2019 17:24	WG1364657
Methyl tert-butyl ether	U		0.102	0.500	1	10/17/2019 17:24	WG1364657
Naphthalene	U		0.174	2.50	1	10/17/2019 17:24	WG1364657
n-Propylbenzene	U		0.162	0.500	1	10/17/2019 17:24	WG1364657
Styrene	U		0.117	0.500	1	10/17/2019 17:24	WG1364657
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/17/2019 17:24	WG1364657
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/17/2019 17:24	WG1364657
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/17/2019 17:24	WG1364657
Tetrachloroethene	0.609		0.199	0.500	1	10/17/2019 17:24	WG1364657
Toluene	U		0.412	0.500	1	10/17/2019 17:24	WG1364657
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/17/2019 17:24	WG1364657
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/17/2019 17:24	WG1364657
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/17/2019 17:24	WG1364657
1,1,2-Trichloroethane	U		0.186	0.500	1	10/17/2019 17:24	WG1364657
Trichloroethene	8.12		0.153	0.500	1	10/17/2019 17:24	WG1364657
Trichlorofluoromethane	U		0.130	2.50	1	10/17/2019 17:24	WG1364657
1,2,3-Trichloropropane	U		0.247	2.50	1	10/17/2019 17:24	WG1364657
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/17/2019 17:24	WG1364657
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/17/2019 17:24	WG1364657
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/17/2019 17:24	WG1364657
Vinyl acetate	U		0.645	5.00	1	10/17/2019 17:24	WG1364657
Vinyl chloride	5.76		0.118	0.500	1	10/17/2019 17:24	WG1364657
Xylenes, Total	U		0.316	1.50	1	10/17/2019 17:24	WG1364657
(S) Toluene-d8	*112*			*80.0-120*		*10/17/2019 17:24*	WG1364657
(S) 4-Bromofluorobenzene	*113*			*77.0-126*		*10/17/2019 17:24*	WG1364657
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/17/2019 17:24*	WG1364657

JC 11/25/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	135000		2710	20000	1	10/16/2019 00:31	WG1363488

Sample Narrative:

L1148422-01 WG1363488: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	11500		51.9	1000	1	10/11/2019 01:18	WG1360711
Nitrate	1610		22.7	100	1	10/11/2019 01:18	WG1360711
Sulfate	13800		77.4	5000	1	10/11/2019 01:18	WG1360711

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	964 U	B J	102	1000	1	10/12/2019 20:56	WG1362106

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	273		15.0	100	1	10/15/2019 16:50	WG1362075
Manganese	160		0.250	5.00	1	10/15/2019 16:50	WG1362075

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	75.5		0.287	0.678	1	10/14/2019 15:10	WG1362474
Ethane	12.3		0.296	1.29	1	10/14/2019 15:10	WG1362474
Ethene	3.27		0.422	1.27	1	10/14/2019 15:10	WG1362474

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.67	J	1.05	25.0	1	10/17/2019 18:46	WG1364657
Acrylonitrile	U		0.873	5.00	1	10/17/2019 18:46	WG1364657
Benzene	U		0.0896	0.500	1	10/17/2019 18:46	WG1364657
Bromobenzene	U		0.133	0.500	1	10/17/2019 18:46	WG1364657
Bromodichloromethane	U		0.0800	0.500	1	10/17/2019 18:46	WG1364657
Bromochloromethane	U		0.145	0.500	1	10/17/2019 18:46	WG1364657
Bromoform	U		0.186	0.500	1	10/17/2019 18:46	WG1364657
Bromomethane	U		0.157	2.50	1	10/17/2019 18:46	WG1364657
n-Butylbenzene	U		0.143	0.500	1	10/17/2019 18:46	WG1364657
sec-Butylbenzene	U		0.134	0.500	1	10/17/2019 18:46	WG1364657
tert-Butylbenzene	U		0.183	0.500	1	10/17/2019 18:46	WG1364657
Carbon disulfide	U		0.101	0.500	1	10/17/2019 18:46	WG1364657
Carbon tetrachloride	U		0.159	0.500	1	10/17/2019 18:46	WG1364657
Chlorobenzene	U		0.140	0.500	1	10/17/2019 18:46	WG1364657
Chlorodibromomethane	U		0.128	0.500	1	10/17/2019 18:46	WG1364657
Chloroethane	U		0.141	2.50	1	10/17/2019 18:46	WG1364657
Chloroform	U		0.0860	0.500	1	10/17/2019 18:46	WG1364657
Chloromethane	U		0.153	1.25	1	10/17/2019 18:46	WG1364657
2-Chlorotoluene	U		0.111	0.500	1	10/17/2019 18:46	WG1364657
4-Chlorotoluene	U		0.0972	0.500	1	10/17/2019 18:46	WG1364657

JC 11/25/19

MW-323-100919

Collected date/time: 10/09/19 11:35

SAMPLE RESULTS - 01

L1148422

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/17/2019 18:46	WG1364657
1,2-Dibromoethane	U		0.193	0.500	1	10/17/2019 18:46	WG1364657
Dibromomethane	U		0.117	0.500	1	10/17/2019 18:46	WG1364657
1,2-Dichlorobenzene	U		0.101	0.500	1	10/17/2019 18:46	WG1364657
1,3-Dichlorobenzene	U		0.130	0.500	1	10/17/2019 18:46	WG1364657
1,4-Dichlorobenzene	U		0.121	0.500	1	10/17/2019 18:46	WG1364657
Dichlorodifluoromethane	U		0.127	2.50	1	10/17/2019 18:46	WG1364657
1,1-Dichloroethane	U		0.114	0.500	1	10/17/2019 18:46	WG1364657
1,2-Dichloroethane	U		0.108	0.500	1	10/17/2019 18:46	WG1364657
1,1-Dichloroethene	0.276	J	0.188	0.500	1	10/17/2019 18:46	WG1364657
cis-1,2-Dichloroethene	66.5		0.0933	0.500	1	10/17/2019 18:46	WG1364657
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/17/2019 18:46	WG1364657
1,2-Dichloropropane	U		0.190	0.500	1	10/17/2019 18:46	WG1364657
1,1-Dichloropropene	U		0.128	0.500	1	10/17/2019 18:46	WG1364657
1,3-Dichloropropane	U		0.147	1.00	1	10/17/2019 18:46	WG1364657
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/17/2019 18:46	WG1364657
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/17/2019 18:46	WG1364657
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/17/2019 18:46	WG1364657
2,2-Dichloropropane	U		0.0929	0.500	1	10/17/2019 18:46	WG1364657
Di-isopropyl ether	U		0.0924	0.500	1	10/17/2019 18:46	WG1364657
Ethylbenzene	U		0.158	0.500	1	10/17/2019 18:46	WG1364657
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/17/2019 18:46	WG1364657
2-Hexanone	U		0.757	5.00	1	10/17/2019 18:46	WG1364657
n-Hexane	U		0.305	5.00	1	10/17/2019 18:46	WG1364657
Iodomethane	U		0.377	10.0	1	10/17/2019 18:46	WG1364657
Isopropylbenzene	0.308	J	0.126	0.500	1	10/17/2019 18:46	WG1364657
p-Isopropyltoluene	U		0.138	0.500	1	10/17/2019 18:46	WG1364657
2-Butanone (MEK)	U		1.28	5.00	1	10/17/2019 18:46	WG1364657
Methylene Chloride	U		1.07	2.50	1	10/17/2019 18:46	WG1364657
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/17/2019 18:46	WG1364657
Methyl tert-butyl ether	U		0.102	0.500	1	10/17/2019 18:46	WG1364657
Naphthalene	U		0.174	2.50	1	10/17/2019 18:46	WG1364657
n-Propylbenzene	U		0.162	0.500	1	10/17/2019 18:46	WG1364657
Styrene	U		0.117	0.500	1	10/17/2019 18:46	WG1364657
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/17/2019 18:46	WG1364657
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/17/2019 18:46	WG1364657
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/17/2019 18:46	WG1364657
Tetrachloroethene	U		0.199	0.500	1	10/17/2019 18:46	WG1364657
Toluene	4.97		0.412	0.500	1	10/17/2019 18:46	WG1364657
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/17/2019 18:46	WG1364657
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/17/2019 18:46	WG1364657
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/17/2019 18:46	WG1364657
1,1,2-Trichloroethane	U		0.186	0.500	1	10/17/2019 18:46	WG1364657
Trichloroethene	0.891		0.153	0.500	1	10/17/2019 18:46	WG1364657
Trichlorofluoromethane	U		0.130	2.50	1	10/17/2019 18:46	WG1364657
1,2,3-Trichloropropane	U		0.247	2.50	1	10/17/2019 18:46	WG1364657
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/17/2019 18:46	WG1364657
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/17/2019 18:46	WG1364657
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/17/2019 18:46	WG1364657
Vinyl acetate	U		0.645	5.00	1	10/17/2019 18:46	WG1364657
Vinyl chloride	13.4		0.118	0.500	1	10/17/2019 18:46	WG1364657
Xylenes, Total	U		0.316	1.50	1	10/17/2019 18:46	WG1364657
(S) Toluene-d8	*113*			*80.0-120*		*10/17/2019 18:46*	WG1364657
(S) 4-Bromofluorobenzene	*114*			*77.0-126*		*10/17/2019 18:46*	WG1364657
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/17/2019 18:46*	WG1364657

JC 11/25/19

MW-317-100919

Collected date/time: 10/09/19 13:15

SAMPLE RESULTS - 02

L1148422

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	404000		2710	20000	1	10/16/2019 00:39	WG1363488

Sample Narrative:

L1148422-02 WG1363488: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	18500		51.9	1000	1	10/11/2019 02:01	WG1360711
Nitrate	U		22.7	100	1	10/11/2019 02:01	WG1360711
Sulfate	U		77.4	5000	1	10/11/2019 02:01	WG1360711

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	12000		102	1000	1	10/12/2019 21:11	WG1362106

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	12500		300	2000	20	10/15/2019 17:29	WG1362075
Manganese	3570		5.00	100	20	10/15/2019 17:29	WG1362075

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	11000		2.87	6.78	10	10/15/2019 11:14	WG1362983
Ethane	U		0.296	1.29	1	10/14/2019 15:12	WG1362474
Ethene	U		0.422	1.27	1	10/14/2019 15:12	WG1362474

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.66	J	1.05	25.0	1	10/17/2019 19:06	WG1364657
Acrylonitrile	U		0.873	5.00	1	10/17/2019 19:06	WG1364657
Benzene	U		0.0896	0.500	1	10/17/2019 19:06	WG1364657
Bromobenzene	U		0.133	0.500	1	10/17/2019 19:06	WG1364657
Bromodichloromethane	U		0.0800	0.500	1	10/17/2019 19:06	WG1364657
Bromochloromethane	U		0.145	0.500	1	10/17/2019 19:06	WG1364657
Bromoform	U		0.186	0.500	1	10/17/2019 19:06	WG1364657
Bromomethane	U		0.157	2.50	1	10/17/2019 19:06	WG1364657
n-Butylbenzene	U		0.143	0.500	1	10/17/2019 19:06	WG1364657
sec-Butylbenzene	U		0.134	0.500	1	10/17/2019 19:06	WG1364657
tert-Butylbenzene	U		0.183	0.500	1	10/17/2019 19:06	WG1364657
Carbon disulfide	U		0.101	0.500	1	10/17/2019 19:06	WG1364657
Carbon tetrachloride	U		0.159	0.500	1	10/17/2019 19:06	WG1364657
Chlorobenzene	U		0.140	0.500	1	10/17/2019 19:06	WG1364657
Chlorodibromomethane	U		0.128	0.500	1	10/17/2019 19:06	WG1364657
Chloroethane	U		0.141	2.50	1	10/17/2019 19:06	WG1364657
Chloroform	U		0.0860	0.500	1	10/17/2019 19:06	WG1364657
Chloromethane	U		0.153	1.25	1	10/17/2019 19:06	WG1364657
2-Chlorotoluene	U		0.111	0.500	1	10/17/2019 19:06	WG1364657
4-Chlorotoluene	U		0.0972	0.500	1	10/17/2019 19:06	WG1364657

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/17/2019 19:06	WG1364657
1,2-Dibromoethane	U		0.193	0.500	1	10/17/2019 19:06	WG1364657
Dibromomethane	U		0.117	0.500	1	10/17/2019 19:06	WG1364657
1,2-Dichlorobenzene	U		0.101	0.500	1	10/17/2019 19:06	WG1364657
1,3-Dichlorobenzene	U		0.130	0.500	1	10/17/2019 19:06	WG1364657
1,4-Dichlorobenzene	U		0.121	0.500	1	10/17/2019 19:06	WG1364657
Dichlorodifluoromethane	U		0.127	2.50	1	10/17/2019 19:06	WG1364657
1,1-Dichloroethane	U		0.114	0.500	1	10/17/2019 19:06	WG1364657
1,2-Dichloroethane	U		0.108	0.500	1	10/17/2019 19:06	WG1364657
1,1-Dichloroethene	U		0.188	0.500	1	10/17/2019 19:06	WG1364657
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/17/2019 19:06	WG1364657
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/17/2019 19:06	WG1364657
1,2-Dichloropropane	U		0.190	0.500	1	10/17/2019 19:06	WG1364657
1,1-Dichloropropene	U		0.128	0.500	1	10/17/2019 19:06	WG1364657
1,3-Dichloropropane	U		0.147	1.00	1	10/17/2019 19:06	WG1364657
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/17/2019 19:06	WG1364657
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/17/2019 19:06	WG1364657
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/17/2019 19:06	WG1364657
2,2-Dichloropropane	U		0.0929	0.500	1	10/17/2019 19:06	WG1364657
Di-isopropyl ether	U		0.0924	0.500	1	10/17/2019 19:06	WG1364657
Ethylbenzene	U		0.158	0.500	1	10/17/2019 19:06	WG1364657
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/17/2019 19:06	WG1364657
2-Hexanone	U		0.757	5.00	1	10/17/2019 19:06	WG1364657
n-Hexane	U		0.305	5.00	1	10/17/2019 19:06	WG1364657
Iodomethane	U		0.377	10.0	1	10/17/2019 19:06	WG1364657
Isopropylbenzene	U		0.126	0.500	1	10/17/2019 19:06	WG1364657
p-Isopropyltoluene	U		0.138	0.500	1	10/17/2019 19:06	WG1364657
2-Butanone (MEK)	U		1.28	5.00	1	10/17/2019 19:06	WG1364657
Methylene Chloride	U		1.07	2.50	1	10/17/2019 19:06	WG1364657
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/17/2019 19:06	WG1364657
Methyl tert-butyl ether	U		0.102	0.500	1	10/17/2019 19:06	WG1364657
Naphthalene	U		0.174	2.50	1	10/17/2019 19:06	WG1364657
n-Propylbenzene	U		0.162	0.500	1	10/17/2019 19:06	WG1364657
Styrene	U		0.117	0.500	1	10/17/2019 19:06	WG1364657
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/17/2019 19:06	WG1364657
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/17/2019 19:06	WG1364657
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/17/2019 19:06	WG1364657
Tetrachloroethene	U		0.199	0.500	1	10/17/2019 19:06	WG1364657
Toluene	U		0.412	0.500	1	10/17/2019 19:06	WG1364657
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/17/2019 19:06	WG1364657
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/17/2019 19:06	WG1364657
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/17/2019 19:06	WG1364657
1,1,2-Trichloroethane	U		0.186	0.500	1	10/17/2019 19:06	WG1364657
Trichloroethene	U		0.153	0.500	1	10/17/2019 19:06	WG1364657
Trichlorofluoromethane	U		0.130	2.50	1	10/17/2019 19:06	WG1364657
1,2,3-Trichloropropane	U		0.247	2.50	1	10/17/2019 19:06	WG1364657
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/17/2019 19:06	WG1364657
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/17/2019 19:06	WG1364657
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/17/2019 19:06	WG1364657
Vinyl acetate	U		0.645	5.00	1	10/17/2019 19:06	WG1364657
Vinyl chloride	U		0.118	0.500	1	10/17/2019 19:06	WG1364657
Xylenes, Total	U		0.316	1.50	1	10/17/2019 19:06	WG1364657
(S) Toluene-d8	*110*			*80.0-120*		*10/17/2019 19:06*	WG1364657
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*10/17/2019 19:06*	WG1364657
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/17/2019 19:06*	WG1364657

JC 11/25/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	10/17/2019 19:26	WG1364657	
Acrylonitrile	U		0.873	5.00	1	10/17/2019 19:26	WG1364657	
Benzene	11.2		0.0896	0.500	1	10/17/2019 19:26	WG1364657	
Bromobenzene	U		0.133	0.500	1	10/17/2019 19:26	WG1364657	
Bromodichloromethane	U		0.0800	0.500	1	10/17/2019 19:26	WG1364657	
Bromochloromethane	U		0.145	0.500	1	10/17/2019 19:26	WG1364657	
Bromoform	U		0.186	0.500	1	10/17/2019 19:26	WG1364657	
Bromomethane	U		0.157	2.50	1	10/17/2019 19:26	WG1364657	
n-Butylbenzene	8.26		0.143	0.500	1	10/17/2019 19:26	WG1364657	
sec-Butylbenzene	14.4		0.134	0.500	1	10/17/2019 19:26	WG1364657	
tert-Butylbenzene	0.365	J	0.183	0.500	1	10/17/2019 19:26	WG1364657	
Carbon disulfide	U		0.101	0.500	1	10/17/2019 19:26	WG1364657	
Carbon tetrachloride	U		0.159	0.500	1	10/17/2019 19:26	WG1364657	
Chlorobenzene	U		0.140	0.500	1	10/17/2019 19:26	WG1364657	
Chlorodibromomethane	U		0.128	0.500	1	10/17/2019 19:26	WG1364657	
Chloroethane	U		0.141	2.50	1	10/17/2019 19:26	WG1364657	
Chloroform	U		0.0860	0.500	1	10/17/2019 19:26	WG1364657	
Chloromethane	U		0.153	1.25	1	10/17/2019 19:26	WG1364657	
2-Chlorotoluene	U		0.111	0.500	1	10/17/2019 19:26	WG1364657	
4-Chlorotoluene	U		0.0972	0.500	1	10/17/2019 19:26	WG1364657	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/17/2019 19:26	WG1364657	
1,2-Dibromoethane	U		0.193	0.500	1	10/17/2019 19:26	WG1364657	
Dibromomethane	U		0.117	0.500	1	10/17/2019 19:26	WG1364657	
1,2-Dichlorobenzene	U		0.101	0.500	1	10/17/2019 19:26	WG1364657	
1,3-Dichlorobenzene	U		0.130	0.500	1	10/17/2019 19:26	WG1364657	
1,4-Dichlorobenzene	U		0.121	0.500	1	10/17/2019 19:26	WG1364657	
Dichlorodifluoromethane	U		0.127	2.50	1	10/17/2019 19:26	WG1364657	
1,1-Dichloroethane	U		0.114	0.500	1	10/17/2019 19:26	WG1364657	
1,2-Dichloroethane	U		0.108	0.500	1	10/17/2019 19:26	WG1364657	
1,1-Dichloroethene	U		0.188	0.500	1	10/17/2019 19:26	WG1364657	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/17/2019 19:26	WG1364657	
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/17/2019 19:26	WG1364657	
1,2-Dichloropropane	U		0.190	0.500	1	10/17/2019 19:26	WG1364657	
1,1-Dichloropropene	U		0.128	0.500	1	10/17/2019 19:26	WG1364657	
1,3-Dichloropropane	U		0.147	1.00	1	10/17/2019 19:26	WG1364657	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/17/2019 19:26	WG1364657	
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/17/2019 19:26	WG1364657	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/17/2019 19:26	WG1364657	
2,2-Dichloropropane	U		0.0929	0.500	1	10/17/2019 19:26	WG1364657	
Di-isopropyl ether	U		0.0924	0.500	1	10/17/2019 19:26	WG1364657	
Ethylbenzene	16.6		0.158	0.500	1	10/17/2019 19:26	WG1364657	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/17/2019 19:26	WG1364657	
2-Hexanone	U		0.757	5.00	1	10/17/2019 19:26	WG1364657	
n-Hexane	4.81	J	0.305	5.00	1	10/17/2019 19:26	WG1364657	
Iodomethane	U		0.377	10.0	1	10/17/2019 19:26	WG1364657	
Isopropylbenzene	49.9		0.126	0.500	1	10/17/2019 19:26	WG1364657	
p-Isopropyltoluene	0.312	J	0.138	0.500	1	10/17/2019 19:26	WG1364657	JC 11/25/19
2-Butanone (MEK)	U		1.28	5.00	1	10/17/2019 19:26	WG1364657	
Methylene Chloride	U		1.07	2.50	1	10/17/2019 19:26	WG1364657	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/17/2019 19:26	WG1364657	
Methyl tert-butyl ether	U		0.102	0.500	1	10/17/2019 19:26	WG1364657	
Naphthalene	36.7		0.174	2.50	1	10/17/2019 19:26	WG1364657	
n-Propylbenzene	152		0.162	0.500	1	10/17/2019 19:26	WG1364657	
Styrene	U		0.117	0.500	1	10/17/2019 19:26	WG1364657	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/17/2019 19:26	WG1364657	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/17/2019 19:26	WG1364657	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/17/2019 19:26	WG1364657
Tetrachloroethene	U		0.199	0.500	1	10/17/2019 19:26	WG1364657
Toluene	2.39		0.412	0.500	1	10/17/2019 19:26	WG1364657
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/17/2019 19:26	WG1364657
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/17/2019 19:26	WG1364657
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/17/2019 19:26	WG1364657
1,1,2-Trichloroethane	U		0.186	0.500	1	10/17/2019 19:26	WG1364657
Trichloroethene	U		0.153	0.500	1	10/17/2019 19:26	WG1364657
Trichlorofluoromethane	U		0.130	2.50	1	10/17/2019 19:26	WG1364657
1,2,3-Trichloropropane	U		0.247	2.50	1	10/17/2019 19:26	WG1364657
1,2,4-Trimethylbenzene	4.11		0.123	0.500	1	10/17/2019 19:26	WG1364657
1,2,3-Trimethylbenzene	7.95		0.0739	0.500	1	10/17/2019 19:26	WG1364657
1,3,5-Trimethylbenzene	0.379	J	0.124	0.500	1	10/17/2019 19:26	WG1364657
Vinyl acetate	U		0.645	5.00	1	10/17/2019 19:26	WG1364657
Vinyl chloride	U		0.118	0.500	1	10/17/2019 19:26	WG1364657
Xylenes, Total	3.77		0.316	1.50	1	10/17/2019 19:26	WG1364657
(S) Toluene-d8	*107*			*80.0-120*		*10/17/2019 19:26*	WG1364657
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*10/17/2019 19:26*	WG1364657
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*10/17/2019 19:26*	WG1364657

JC 11/25/19

MEMORANDUM

TO: Project File **DATE:** December 2, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.02.501E

TASK: EIM Data Validation Level EPA2A for October 2019 – Groundwater Samples

LAB: Pace Sample Delivery Groups (SDGs): L1148900, L1149387, L1149851, and L1150336

Thirty-six (36) groundwater samples (including two field duplicates), one (1) equipment blank, and four (4) trip blanks were collected as part of the Remedial Investigation (RI) sampling event at the Former American Linen Supply Site, in Seattle, Washington, October 10, 11, 14, and 15, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B.

The RI sampling was conducted during the month of October and results are reported in multiple SDGs from Pace. Pace SDGs are reviewed in groups of approximately 2-4 per each data validation report. Group 2 analytical results are reported in SDGs L1148900, L1149387, L1149851, and L1150336. The quality assurance review of the laboratory data associated with Group 2 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory

Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested with the following discussions:

- SDG L1148900: Review of the chain of custody (COC) shows that sample MW108-101019 was reported as MW-108-101019.

- SDGs L1148900 and L1150336: Dates of sample collection are listed on the first and last row of the laboratory provided COCs only. Sample collection dates may be confirmed using sample identification and field notes. Date of collection should be indicated on the COC for each sample via drop arrow or date per sample.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

NWTPH-Gx Method:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:
All samples were analyzed within the USEPA recommended holding time for iron and manganese of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDGs L1148900, L1149387, L1149851, and L1150336 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for compounds associated with the trip blanks. The compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. No action is taken other than to note this.

- SDGs L1148900, L1149387, L1149851, and L1150336 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ) however in some cases blank contamination qualifiers may supersede these qualifiers. Refer to Method Blank and/or Trip Blank sections of this report for additional details.

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1148900 – Analytical batch WG1366289: A low level of naphthalene and is detected in the method blank. **Sample MW-108-101019 naphthalene detection is below the RDL and qualified as not detected (U).**

- SDG L1148900 – Analytical batch WG1366370: Low levels of hexachloro-1,3-butadiene, iodomethane, naphthalene, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene are detected in the method blank. No action is taken for these compounds as they are not detected in associated with one exception; naphthalene. **Naphthalene detection in sample MW-8-101019 is below the RDL and qualified as not detected (U).**

- SDG L1149851 – Analytical batch WG1368672: Low levels of tetrachloroethene and trichloroethene are detected in the method blank. No action is taken for as these compounds are not detected in the associated trip blank sample TB-101419.

- SDG L1150336 – Analytical batch WG1368527: A low level of hexachloro-1,3-butadiene, naphthalene, and 1,2,3-trichlorobenzene are detected in the method blank. No action is taken for these compounds as they are not detected in the associated samples.

- SDG L1150336 – Analytical batch WG1369955: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action is taken since this compound is not detected in the associated samples.

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1149851– Analytical batch WG1367521: A low level of gasoline is detected in the method blank. **Associated gasoline detection in sample MW-161-101419 is below the RDL and qualified as not detected (U).**

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020B and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL. General chemistry and metal blank detections are shown below:

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1148900	WG1364209	SM2320B	Alkalinity as CaCO3, Total	5440	J	20000	ug/L	NO
L1148900	WG1364211	SM2320B	Alkalinity as CaCO3, Total	5510	J	20000	ug/L	NO
L1148900	WG1361291	9060A	TOC	662	J	1000	ug/L	NO
L1148900	WG1363727	6020B	Manganese	0.691	J	5.00	ug/L	NO
L1149387	WG1365100	SM2320B	Alkalinity as CaCO3, Total	4330	J	20000	ug/L	NO
L1149387	WG1361957	9056A	Chloride	79.3	J	1000	ug/L	NO
L1149387	WG1361957	9056A	Sulfate	1390	J	5000	ug/L	NO
L1149387	WG1364227	9060A	TOC	416	J	1000	ug/L	NO
L1149387	WG1364591	6020B	Manganese	1.01	J	5.00	ug/L	NO
L1149851	WG1365104	SM2320B	Alkalinity as CaCO3, Total	3710	J	20000	ug/L	NO
L1147791	WG1363090	9056A	Chloride	61.6	J	1000	ug/L	NO
L1147791	WG1363090	9056A	Sulfate	107	J	5000	ug/L	NO
L1147791	WG1364227	9060A	TOC	416	J	1000	ug/L	NO
L1147791	WG1364260	9060A	TOC	422	J	1000	ug/L	NO
L1147791	WG1364629	6020B	Manganese	0.540	J	5.00	ug/L	NO
L1147791	WG1362294	9060A	TOC	662	J	1000	ug/L	NO
L1150336	WG1366027	SM2320B	Alkalinity as CaCO3, Total	3910	J	20000	ug/L	NO
L1150336	WG1366029	SM2320B	Alkalinity as CaCO3, Total	4460	J	20000	ug/L	NO
L1150336	WG1363847	9056A	Sulfate	86.7	J	5000	ug/L	NO
L1150336	WG1365601	9060A	TOC	581	J	1000	ug/L	NO
L1150336	WG1364631	6020B	Manganese	0.261	J	5.00	ug/L	NO

Trip Blank Results

USEPA Method 8260C and NWTPH-Gx:
Four trip blanks were collected and submitted for analysis. The target analytes were not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1149851 – Analytical batch WG1369459: A low level of acetone and is detected in the trip blank. **Acetone is detected below the RDL in sample MW-111-101419 and is qualified as not detected (U).**

- SDG L1150336 – Analytical batch WG1368527: Low levels of carbon disulfide, trans-1,2-dichloroethene, and naphthalene are detected in the trip blank. **Carbon disulfide is detected below the RDL in sample MW-107-101519 and is qualified as not detected (U).** No action is taken for compounds detected above the RDL.

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:
One equipment blank (EQ-101119 from SDG L1149387) was collected and analyzed for VOCs, gasoline, dissolved gases (methane, ethane, and ethene), metals (iron and manganese), wet chemistry parameters (alkalinity, chloride, nitrate, sulfate, and TOC). Review of the equipment blank results are as follows:

- SDG L1149387: An equipment blank sample (EQ-101119) was collected on October 11, 2019 from the bladder pump associated with samples MW124-101119 and MW-307-101119. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

  - Low levels of chloroform, alkalinity, chloride, TOC, iron, and manganese are detected in the equipment blank. No action was taken on this basis since associated detections are either above the RDL or are not detected.

  - Methane is detected in the equipment blank and associated samples as shown below:

Sample ID	**Methane (0.678 ug/L RDL)**
EQ-101119	24.2
MW124-101119	12.3
MW-307-101119	26.6

- SDG L1149387: Methane qualifiers are assigned as follows:
  - **Sample MW-307-101119 methane detection is slightly greater than the equipment blank concentration and is estimated with high bias (J+).**
  - **Sample MW124-101119 methane detection is less than the equipment blank concentration and qualified as not detected (U).**

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1149387: Samples MW-128-101119 and MW-916-101119; and
- SDG L1150336: Samples MW-126-101519 and MW-917-101519.

Target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 1x RDL for groundwater results <5X the RDL) for the field duplicate pair with the following exceptions:

- SDG L1149387: **Samples MW-128-101119 and MW-916-101119 sulfate, ethane, ethene, and VOC compound vinyl chloride RPD results are greater than 30% and qualified as estimated (J/UJ).**

Laboratory Duplicate Analyses

USEPA Method 8260C:
Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

NWTPH-Gx Method:
A laboratory duplicate sample was not analyzed. Refer to LCS/LCSD or MS/MSDs results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:
Laboratory duplicate samples were not analyzed. Refer to LCS/LCSD or MS/MSD results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits with the following discussion:

- SDG L1149387: Anion (chloride, sulfate and nitrate) laboratory duplicate was performed on the equipment blank with elevated RPDs on chloride and nitrate. No action is taken since the results are less than 5X the RDL and absolute differences are <1X the RDL.

- SDG L1149851: Sulfate laboratory duplicate was performed on a non-client sample within the analytical batch. RPD result is qualified by the laboratory to indicate that the sample result exceeds the upper limit of the calibration curve. No action is taken other than to note that the laboratory performed more than one laboratory duplicate and precision results are acceptable.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, and the method blanks are within the laboratory surrogate control limits for all the analyses.

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all analyses.

Laboratory Control Samples

USEPA Method 8260C:
Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD % Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions:

- SDG L1148900 - Analytical batch WG1366370. LCS hexachloro-1,3-butadiene recovery is above laboratory acceptance criteria and laboratory qualified (J4). No action is taken on this basis since hexachloro-1,3-butadiene was not detected in sample MW-8-101019.

- SDG L1148900 - LCSDs were not analyzed. Refer to the matrix spike data or field duplicate data for precision data.

- SDG L1149851 - Analytical batch WG1368672. LCS vinyl acetate recovery is above laboratory acceptance criteria and laboratory qualified (J4). No action is taken on this basis vinyl acetate was not detected in the associated trip blank.

- SDG L1150336 - Analytical batch WG1368527. LCS 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,3-dichloropropene and 1,1,2-trichloroethane recoveries are below laboratory acceptance criteria and laboratory qualified (J4). No action is taken on this basis for 1,4-dichlorobenzene since recovery is 78.8% and just below the control limit criteria of 79 – 120%. **All associated 1,3-dichlorobenzene, 1,3-dichloropropene, and 1,1,2-trichloroethane results are estimated and qualified (UJ/J).** Refer to initial and continuing calibration section for additional information.

NWTPH-Gx Method:
The LCS % Rs for the target compound (gasoline) are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:
The LCS/LCSD % Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on sample MW-8-101019 (SDG L1148900). The MS/MSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters. In cases where matrix spike analyses were not performed refer to LCS results and field duplicate samples for accuracy and precision data.

NWTPH-Gx Method:
MS/MSD analyses were not performed. Refer to LCS results and field duplicate samples for accuracy and precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
MS/MSD analyses were not performed. Refer to LCS/LCSD and laboratory duplicate results for accuracy and precision data.

- SDG L1149851: MS analysis was performed on a non-client sample. MS non-client sample results for methane is qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. Refer to LCS/LCSD and laboratory duplicate results for accuracy and precision data.

- SDG L1150336: MS/MSD analyses was performed on a non-client sample. MS non-client sample results for methane is qualified (V) by the laboratory to indicate that the sample amount is greater than 4X the spike amount. In addition, ethene result is laboratory qualified (J5) due to matrix interference. Refer to LCS/LCSD and laboratory duplicate results for accuracy and precision data.

USEPA Method 6020B:
MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are

acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDGs L1148900 and L1149851: The MS and MS/MSD analyses were performed on two non-client samples. MS/MSD non-client sample results for chloride are qualified (EV) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range and sample amount was greater than 4X the spike amount. Refer to LCS and laboratory duplicate results for accuracy and precision data.

- SDG L1149851: MS analysis was performed on a non-client sample. MS non-client sample results for nitrate is qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. Refer to LCS and laboratory duplicate results for accuracy and precision data.

- SDG L1150336: The MS/MSD analyses were performed on a non-client sample. MS/MSD non-client sample results for chloride are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. Refer to LCS and laboratory duplicate results for accuracy and precision data.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

- Multiple SDGs: Selected sample narratives for alkalinity results indicate that several sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. No action is taken other than to note this.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	253000		2710	20000	1	10/18/2019 00:08	WG1364209

Sample Narrative:

L1148900-01 WG1364209: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	24400		51.9	1000	1	10/11/2019 19:57	WG1361340
Nitrate	U		22.7	100	1	10/11/2019 19:57	WG1361340
Sulfate	264000		774	50000	10	10/12/2019 10:42	WG1361340

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2840	~~B~~	102	1000	1	10/14/2019 02:49	WG1362294

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2420		150	1000	10	10/17/2019 00:17	WG1363727
Manganese	1110		2.50	50.0	10	10/17/2019 00:17	WG1363727

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	377		0.287	0.678	1	10/14/2019 16:16	WG1362474
Ethane	18.6		0.296	1.29	1	10/14/2019 16:16	WG1362474
Ethene	U		0.422	1.27	1	10/14/2019 16:16	WG1362474

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	10/19/2019 18:28	WG1365855
Acrylonitrile	U		0.873	5.00	1	10/19/2019 18:28	WG1365855
Benzene	U		0.0896	0.500	1	10/19/2019 18:28	WG1365855
Bromobenzene	U		0.133	0.500	1	10/19/2019 18:28	WG1365855
Bromodichloromethane	U		0.0800	0.500	1	10/19/2019 18:28	WG1365855
Bromochloromethane	U		0.145	0.500	1	10/19/2019 18:28	WG1365855
Bromoform	U		0.186	0.500	1	10/19/2019 18:28	WG1365855
Bromomethane	U		0.157	2.50	1	10/19/2019 18:28	WG1365855
n-Butylbenzene	U		0.143	0.500	1	10/19/2019 18:28	WG1365855
sec-Butylbenzene	U		0.134	0.500	1	10/19/2019 18:28	WG1365855
tert-Butylbenzene	U		0.183	0.500	1	10/19/2019 18:28	WG1365855
Carbon disulfide	U		0.101	0.500	1	10/19/2019 18:28	WG1365855
Carbon tetrachloride	U		0.159	0.500	1	10/19/2019 18:28	WG1365855
Chlorobenzene	U		0.140	0.500	1	10/19/2019 18:28	WG1365855
Chlorodibromomethane	U		0.128	0.500	1	10/19/2019 18:28	WG1365855
Chloroethane	U		0.141	2.50	1	10/19/2019 18:28	WG1365855
Chloroform	U		0.0860	0.500	1	10/19/2019 18:28	WG1365855
Chloromethane	U		0.153	1.25	1	10/19/2019 18:28	WG1365855
2-Chlorotoluene	U		0.111	0.500	1	10/19/2019 18:28	WG1365855
4-Chlorotoluene	U		0.0972	0.500	1	10/19/2019 18:28	WG1365855

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/19/2019 18:28	WG1365855
1,2-Dibromoethane	U		0.193	0.500	1	10/19/2019 18:28	WG1365855
Dibromomethane	U		0.117	0.500	1	10/19/2019 18:28	WG1365855
1,2-Dichlorobenzene	U		0.101	0.500	1	10/19/2019 18:28	WG1365855
1,3-Dichlorobenzene	U		0.130	0.500	1	10/19/2019 18:28	WG1365855
1,4-Dichlorobenzene	U		0.121	0.500	1	10/19/2019 18:28	WG1365855
Dichlorodifluoromethane	U		0.127	2.50	1	10/19/2019 18:28	WG1365855
1,1-Dichloroethane	U		0.114	0.500	1	10/19/2019 18:28	WG1365855
1,2-Dichloroethane	U		0.108	0.500	1	10/19/2019 18:28	WG1365855
1,1-Dichloroethene	3.21		0.188	0.500	1	10/19/2019 18:28	WG1365855
cis-1,2-Dichloroethene	491		0.933	5.00	10	10/21/2019 14:12	WG1366289
trans-1,2-Dichloroethene	1.63		0.152	0.500	1	10/19/2019 18:28	WG1365855
1,2-Dichloropropane	U		0.190	0.500	1	10/19/2019 18:28	WG1365855
1,1-Dichloropropene	U		0.128	0.500	1	10/19/2019 18:28	WG1365855
1,3-Dichloropropane	U		0.147	1.00	1	10/19/2019 18:28	WG1365855
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/19/2019 18:28	WG1365855
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/19/2019 18:28	WG1365855
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/19/2019 18:28	WG1365855
2,2-Dichloropropane	U		0.0929	0.500	1	10/19/2019 18:28	WG1365855
Di-isopropyl ether	U		0.0924	0.500	1	10/19/2019 18:28	WG1365855
Ethylbenzene	U		0.158	0.500	1	10/19/2019 18:28	WG1365855
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/19/2019 18:28	WG1365855
2-Hexanone	U		0.757	5.00	1	10/19/2019 18:28	WG1365855
n-Hexane	U		0.305	5.00	1	10/19/2019 18:28	WG1365855
Iodomethane	U		0.377	10.0	1	10/19/2019 18:28	WG1365855
Isopropylbenzene	U		0.126	0.500	1	10/19/2019 18:28	WG1365855
p-Isopropyltoluene	U		0.138	0.500	1	10/19/2019 18:28	WG1365855
2-Butanone (MEK)	U		1.28	5.00	1	10/19/2019 18:28	WG1365855
Methylene Chloride	U		1.07	2.50	1	10/19/2019 18:28	WG1365855
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/19/2019 18:28	WG1365855
Methyl tert-butyl ether	U		0.102	0.500	1	10/19/2019 18:28	WG1365855
Naphthalene	U		0.174	2.50	1	10/19/2019 18:28	WG1365855
n-Propylbenzene	U		0.162	0.500	1	10/19/2019 18:28	WG1365855
Styrene	U		0.117	0.500	1	10/19/2019 18:28	WG1365855
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/19/2019 18:28	WG1365855
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/19/2019 18:28	WG1365855
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/19/2019 18:28	WG1365855
Tetrachloroethene	26.1		0.199	0.500	1	10/19/2019 18:28	WG1365855
Toluene	U		0.412	0.500	1	10/19/2019 18:28	WG1365855
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/19/2019 18:28	WG1365855
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/19/2019 18:28	WG1365855
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/19/2019 18:28	WG1365855
1,1,2-Trichloroethane	U		0.186	0.500	1	10/19/2019 18:28	WG1365855
Trichloroethene	106		0.153	0.500	1	10/19/2019 18:28	WG1365855
Trichlorofluoromethane	U		0.130	2.50	1	10/19/2019 18:28	WG1365855
1,2,3-Trichloropropane	U		0.247	2.50	1	10/19/2019 18:28	WG1365855
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/19/2019 18:28	WG1365855
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/19/2019 18:28	WG1365855
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/19/2019 18:28	WG1365855
Vinyl acetate	U		0.645	5.00	1	10/19/2019 18:28	WG1365855
Vinyl chloride	43.6		0.118	0.500	1	10/19/2019 18:28	WG1365855
Xylenes, Total	U		0.316	1.50	1	10/19/2019 18:28	WG1365855
(S) Toluene-d8	*117*			*80.0-120*		*10/19/2019 18:28*	WG1365855
(S) Toluene-d8	*115*			*80.0-120*		*10/21/2019 14:12*	WG1366289
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*10/19/2019 18:28*	WG1365855
(S) 4-Bromofluorobenzene	*92.4*			*77.0-126*		*10/21/2019 14:12*	WG1366289

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*10/19/2019 18:28*	WG1365855
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*10/21/2019 14:12*	WG1366289

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	10/19/2019 18:48	WG1365855
Acrylonitrile	U		0.873	5.00	1	10/19/2019 18:48	WG1365855
Benzene	133		0.0896	0.500	1	10/19/2019 18:48	WG1365855
Bromobenzene	U		0.133	0.500	1	10/19/2019 18:48	WG1365855
Bromodichloromethane	U		0.0800	0.500	1	10/19/2019 18:48	WG1365855
Bromochloromethane	U		0.145	0.500	1	10/19/2019 18:48	WG1365855
Bromoform	U		0.186	0.500	1	10/19/2019 18:48	WG1365855
Bromomethane	U		0.157	2.50	1	10/19/2019 18:48	WG1365855
n-Butylbenzene	U		0.143	0.500	1	10/19/2019 18:48	WG1365855
sec-Butylbenzene	8.08		0.134	0.500	1	10/19/2019 18:48	WG1365855
tert-Butylbenzene	0.260	J	0.183	0.500	1	10/19/2019 18:48	WG1365855
Carbon disulfide	U		0.101	0.500	1	10/19/2019 18:48	WG1365855
Carbon tetrachloride	U		0.159	0.500	1	10/19/2019 18:48	WG1365855
Chlorobenzene	U		0.140	0.500	1	10/19/2019 18:48	WG1365855
Chlorodibromomethane	U		0.128	0.500	1	10/19/2019 18:48	WG1365855
Chloroethane	U		0.141	2.50	1	10/19/2019 18:48	WG1365855
Chloroform	U		0.0860	0.500	1	10/19/2019 18:48	WG1365855
Chloromethane	U		0.153	1.25	1	10/19/2019 18:48	WG1365855
2-Chlorotoluene	U		0.111	0.500	1	10/19/2019 18:48	WG1365855
4-Chlorotoluene	U		0.0972	0.500	1	10/19/2019 18:48	WG1365855
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/19/2019 18:48	WG1365855
1,2-Dibromoethane	U		0.193	0.500	1	10/19/2019 18:48	WG1365855
Dibromomethane	U		0.117	0.500	1	10/19/2019 18:48	WG1365855
1,2-Dichlorobenzene	U		0.101	0.500	1	10/19/2019 18:48	WG1365855
1,3-Dichlorobenzene	U		0.130	0.500	1	10/19/2019 18:48	WG1365855
1,4-Dichlorobenzene	U		0.121	0.500	1	10/19/2019 18:48	WG1365855
Dichlorodifluoromethane	U		0.127	2.50	1	10/19/2019 18:48	WG1365855
1,1-Dichloroethane	U		0.114	0.500	1	10/19/2019 18:48	WG1365855
1,2-Dichloroethane	U		0.108	0.500	1	10/19/2019 18:48	WG1365855
1,1-Dichloroethene	U		0.188	0.500	1	10/19/2019 18:48	WG1365855
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/19/2019 18:48	WG1365855
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/19/2019 18:48	WG1365855
1,2-Dichloropropane	U		0.190	0.500	1	10/19/2019 18:48	WG1365855
1,1-Dichloropropene	U		0.128	0.500	1	10/19/2019 18:48	WG1365855
1,3-Dichloropropane	U		0.147	1.00	1	10/19/2019 18:48	WG1365855
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/19/2019 18:48	WG1365855
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/19/2019 18:48	WG1365855
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/19/2019 18:48	WG1365855
2,2-Dichloropropane	U		0.0929	0.500	1	10/19/2019 18:48	WG1365855
Di-isopropyl ether	U		0.0924	0.500	1	10/19/2019 18:48	WG1365855
Ethylbenzene	41.0		0.158	0.500	1	10/19/2019 18:48	WG1365855
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/19/2019 18:48	WG1365855
2-Hexanone	U		0.757	5.00	1	10/19/2019 18:48	WG1365855
n-Hexane	55.0		0.305	5.00	1	10/19/2019 18:48	WG1365855
Iodomethane	U		0.377	10.0	1	10/19/2019 18:48	WG1365855
Isopropylbenzene	149		0.126	0.500	1	10/19/2019 18:48	WG1365855
p-Isopropyltoluene	1.96		0.138	0.500	1	10/19/2019 18:48	WG1365855
2-Butanone (MEK)	U		1.28	5.00	1	10/19/2019 18:48	WG1365855
Methylene Chloride	U		1.07	2.50	1	10/19/2019 18:48	WG1365855
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/19/2019 18:48	WG1365855
Methyl tert-butyl ether	U		0.102	0.500	1	10/19/2019 18:48	WG1365855
Naphthalene	4.44		0.174	2.50	1	10/19/2019 18:48	WG1365855
n-Propylbenzene	359 J	J0	1.62	5.00	10	10/21/2019 14:32	WG1366289
Styrene	U		0.117	0.500	1	10/19/2019 18:48	WG1365855
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/19/2019 18:48	WG1365855
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/19/2019 18:48	WG1365855

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/19/2019 18:48	WG1365855
Tetrachloroethene	U		0.199	0.500	1	10/19/2019 18:48	WG1365855
Toluene	15.5		0.412	0.500	1	10/19/2019 18:48	WG1365855
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/19/2019 18:48	WG1365855
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/19/2019 18:48	WG1365855
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/19/2019 18:48	WG1365855
1,1,2-Trichloroethane	U		0.186	0.500	1	10/19/2019 18:48	WG1365855
Trichloroethene	U		0.153	0.500	1	10/19/2019 18:48	WG1365855
Trichlorofluoromethane	U		0.130	2.50	1	10/19/2019 18:48	WG1365855
1,2,3-Trichloropropane	U		0.247	2.50	1	10/19/2019 18:48	WG1365855
1,2,4-Trimethylbenzene	0.510		0.123	0.500	1	10/19/2019 18:48	WG1365855
1,2,3-Trimethylbenzene	14.4		0.0739	0.500	1	10/19/2019 18:48	WG1365855
1,3,5-Trimethylbenzene	5.00		0.124	0.500	1	10/19/2019 18:48	WG1365855
Vinyl acetate	U		0.645	5.00	1	10/19/2019 18:48	WG1365855
Vinyl chloride	U		0.118	0.500	1	10/19/2019 18:48	WG1365855
Xylenes, Total	34.6		0.316	1.50	1	10/19/2019 18:48	WG1365855
(S) Toluene-d8	*105*			*80.0-120*		*10/19/2019 18:48*	WG1365855
(S) Toluene-d8	*112*			*80.0-120*		*10/21/2019 14:32*	WG1366289
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*10/19/2019 18:48*	WG1365855
(S) 4-Bromofluorobenzene	*94.5*			*77.0-126*		*10/21/2019 14:32*	WG1366289
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/19/2019 18:48*	WG1365855
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*		*10/21/2019 14:32*	WG1366289

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ	J0	1.05	25.0	1	10/20/2019 23:18	WG1366370
Acrylonitrile	U			0.873	5.00	1	10/20/2019 23:18	WG1366370
Benzene	U			0.0896	0.500	1	10/20/2019 23:18	WG1366370
Bromobenzene	U			0.133	0.500	1	10/20/2019 23:18	WG1366370
Bromodichloromethane	U			0.0800	0.500	1	10/20/2019 23:18	WG1366370
Bromochloromethane	U			0.145	0.500	1	10/20/2019 23:18	WG1366370
Bromoform	U			0.186	0.500	1	10/20/2019 23:18	WG1366370
Bromomethane	U			0.157	2.50	1	10/20/2019 23:18	WG1366370
n-Butylbenzene	U			0.143	0.500	1	10/20/2019 23:18	WG1366370
sec-Butylbenzene	U			0.134	0.500	1	10/20/2019 23:18	WG1366370
tert-Butylbenzene	U			0.183	0.500	1	10/20/2019 23:18	WG1366370
Carbon disulfide	U			0.101	0.500	1	10/20/2019 23:18	WG1366370
Carbon tetrachloride	U			0.159	0.500	1	10/20/2019 23:18	WG1366370
Chlorobenzene	U			0.140	0.500	1	10/20/2019 23:18	WG1366370
Chlorodibromomethane	U			0.128	0.500	1	10/20/2019 23:18	WG1366370
Chloroethane	U			0.141	2.50	1	10/20/2019 23:18	WG1366370
Chloroform	U			0.0860	0.500	1	10/20/2019 23:18	WG1366370
Chloromethane	U			0.153	1.25	1	10/20/2019 23:18	WG1366370
2-Chlorotoluene	U			0.111	0.500	1	10/20/2019 23:18	WG1366370
4-Chlorotoluene	U			0.0972	0.500	1	10/20/2019 23:18	WG1366370
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	10/20/2019 23:18	WG1366370
1,2-Dibromoethane	U			0.193	0.500	1	10/20/2019 23:18	WG1366370
Dibromomethane	U			0.117	0.500	1	10/20/2019 23:18	WG1366370
1,2-Dichlorobenzene	U			0.101	0.500	1	10/20/2019 23:18	WG1366370
1,3-Dichlorobenzene	U			0.130	0.500	1	10/20/2019 23:18	WG1366370
1,4-Dichlorobenzene	U			0.121	0.500	1	10/20/2019 23:18	WG1366370
Dichlorodifluoromethane	U			0.127	2.50	1	10/20/2019 23:18	WG1366370
1,1-Dichloroethane	U			0.114	0.500	1	10/20/2019 23:18	WG1366370
1,2-Dichloroethane	U			0.108	0.500	1	10/20/2019 23:18	WG1366370
1,1-Dichloroethene	U			0.188	0.500	1	10/20/2019 23:18	WG1366370
cis-1,2-Dichloroethene	U			0.0933	0.500	1	10/20/2019 23:18	WG1366370
trans-1,2-Dichloroethene	U			0.152	0.500	1	10/20/2019 23:18	WG1366370
1,2-Dichloropropane	0.253		J	0.190	0.500	1	10/20/2019 23:18	WG1366370
1,1-Dichloropropene	U			0.128	0.500	1	10/20/2019 23:18	WG1366370
1,3-Dichloropropane	U			0.147	1.00	1	10/20/2019 23:18	WG1366370
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/20/2019 23:18	WG1366370
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/20/2019 23:18	WG1366370
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.257	5.00	1	10/20/2019 23:18	WG1366370
2,2-Dichloropropane	U			0.0929	0.500	1	10/20/2019 23:18	WG1366370
Di-isopropyl ether	U			0.0924	0.500	1	10/20/2019 23:18	WG1366370
Ethylbenzene	U			0.158	0.500	1	10/20/2019 23:18	WG1366370
Hexachloro-1,3-butadiene	U		~~J4~~	0.157	1.00	1	10/20/2019 23:18	WG1366370
2-Hexanone	U			0.757	5.00	1	10/20/2019 23:18	WG1366370
n-Hexane	U			0.305	5.00	1	10/20/2019 23:18	WG1366370
Iodomethane	U	UJ	J0	0.377	10.0	1	10/20/2019 23:18	WG1366370
Isopropylbenzene	U			0.126	0.500	1	10/20/2019 23:18	WG1366370
p-Isopropyltoluene	U			0.138	0.500	1	10/20/2019 23:18	WG1366370
2-Butanone (MEK)	U	UJ	J0	1.28	5.00	1	10/20/2019 23:18	WG1366370
Methylene Chloride	U			1.07	2.50	1	10/20/2019 23:18	WG1366370
4-Methyl-2-pentanone (MIBK)	U	UJ	J0	0.823	5.00	1	10/20/2019 23:18	WG1366370
Methyl tert-butyl ether	U			0.102	0.500	1	10/20/2019 23:18	WG1366370
Naphthalene	0.886	U	~~B J J0~~	0.174	2.50	1	10/20/2019 23:18	WG1366370
n-Propylbenzene	U			0.162	0.500	1	10/20/2019 23:18	WG1366370
Styrene	U			0.117	0.500	1	10/20/2019 23:18	WG1366370
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	10/20/2019 23:18	WG1366370
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	10/20/2019 23:18	WG1366370

JC 12/2/19

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/20/2019 23:18	WG1366370
Tetrachloroethene	U		0.199	0.500	1	10/20/2019 23:18	WG1366370
Toluene	U		0.412	0.500	1	10/20/2019 23:18	WG1366370
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/20/2019 23:18	WG1366370
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/20/2019 23:18	WG1366370
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/20/2019 23:18	WG1366370
1,1,2-Trichloroethane	U		0.186	0.500	1	10/20/2019 23:18	WG1366370
Trichloroethene	0.167	J	0.153	0.500	1	10/20/2019 23:18	WG1366370
Trichlorofluoromethane	U		0.130	2.50	1	10/20/2019 23:18	WG1366370
1,2,3-Trichloropropane	U		0.247	2.50	1	10/20/2019 23:18	WG1366370
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/20/2019 23:18	WG1366370
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/20/2019 23:18	WG1366370
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/20/2019 23:18	WG1366370
Vinyl acetate	U		0.645	5.00	1	10/20/2019 23:18	WG1366370
Vinyl chloride	U		0.118	0.500	1	10/20/2019 23:18	WG1366370
Xylenes, Total	U		0.316	1.50	1	10/20/2019 23:18	WG1366370
(S) Toluene-d8	*95.6*			*80.0-120*		*10/20/2019 23:18*	WG1366370
(S) 4-Bromofluorobenzene	*89.6*			*77.0-126*		*10/20/2019 23:18*	WG1366370
(S) 1,2-Dichloroethane-d4	*81.3*			*70.0-130*		*10/20/2019 23:18*	WG1366370

JC 12/2/19

MW-311-101019
Collected date/time: 10/10/19 11:20

SAMPLE RESULTS - 04

L1148900

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	394000		2710	20000	1	10/18/2019 00:15	WG1364209

Sample Narrative:

L1148900-04 WG1364209: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	45900		51.9	1000	1	10/11/2019 20:14	WG1361340
Nitrate	U		22.7	100	1	10/11/2019 20:14	WG1361340
Sulfate	35000		77.4	5000	1	10/11/2019 20:14	WG1361340

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5310	~~B~~	102	1000	1	10/14/2019 03:05	WG1362294

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	349		15.0	100	1	10/16/2019 22:45	WG1363727
Manganese	738		1.25	25.0	5	10/17/2019 00:21	WG1363727

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	856		0.287	0.678	1	10/14/2019 16:19	WG1362474
Ethane	40.8		0.296	1.29	1	10/14/2019 16:19	WG1362474
Ethene	10.4		0.422	1.27	1	10/14/2019 16:19	WG1362474

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.51	J	1.05	25.0	1	10/19/2019 19:29	WG1365855
Acrylonitrile	U		0.873	5.00	1	10/19/2019 19:29	WG1365855
Benzene	U		0.0896	0.500	1	10/19/2019 19:29	WG1365855
Bromobenzene	U		0.133	0.500	1	10/19/2019 19:29	WG1365855
Bromodichloromethane	U		0.0800	0.500	1	10/19/2019 19:29	WG1365855
Bromochloromethane	U		0.145	0.500	1	10/19/2019 19:29	WG1365855
Bromoform	U		0.186	0.500	1	10/19/2019 19:29	WG1365855
Bromomethane	U		0.157	2.50	1	10/19/2019 19:29	WG1365855
n-Butylbenzene	U		0.143	0.500	1	10/19/2019 19:29	WG1365855
sec-Butylbenzene	U		0.134	0.500	1	10/19/2019 19:29	WG1365855
tert-Butylbenzene	U		0.183	0.500	1	10/19/2019 19:29	WG1365855
Carbon disulfide	0.343	J	0.101	0.500	1	10/19/2019 19:29	WG1365855
Carbon tetrachloride	U		0.159	0.500	1	10/19/2019 19:29	WG1365855
Chlorobenzene	U		0.140	0.500	1	10/19/2019 19:29	WG1365855
Chlorodibromomethane	U		0.128	0.500	1	10/19/2019 19:29	WG1365855
Chloroethane	U		0.141	2.50	1	10/19/2019 19:29	WG1365855
Chloroform	U		0.0860	0.500	1	10/19/2019 19:29	WG1365855
Chloromethane	U		0.153	1.25	1	10/19/2019 19:29	WG1365855
2-Chlorotoluene	U		0.111	0.500	1	10/19/2019 19:29	WG1365855
4-Chlorotoluene	U		0.0972	0.500	1	10/19/2019 19:29	WG1365855

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/19/2019 19:29	WG1365855
1,2-Dibromoethane	U		0.193	0.500	1	10/19/2019 19:29	WG1365855
Dibromomethane	U		0.117	0.500	1	10/19/2019 19:29	WG1365855
1,2-Dichlorobenzene	U		0.101	0.500	1	10/19/2019 19:29	WG1365855
1,3-Dichlorobenzene	U		0.130	0.500	1	10/19/2019 19:29	WG1365855
1,4-Dichlorobenzene	U		0.121	0.500	1	10/19/2019 19:29	WG1365855
Dichlorodifluoromethane	U		0.127	2.50	1	10/19/2019 19:29	WG1365855
1,1-Dichloroethane	U		0.114	0.500	1	10/19/2019 19:29	WG1365855
1,2-Dichloroethane	U		0.108	0.500	1	10/19/2019 19:29	WG1365855
1,1-Dichloroethene	0.665		0.188	0.500	1	10/19/2019 19:29	WG1365855
cis-1,2-Dichloroethene	173		0.0933	0.500	1	10/19/2019 19:29	WG1365855
trans-1,2-Dichloroethene	0.221	J	0.152	0.500	1	10/19/2019 19:29	WG1365855
1,2-Dichloropropane	U		0.190	0.500	1	10/19/2019 19:29	WG1365855
1,1-Dichloropropene	U		0.128	0.500	1	10/19/2019 19:29	WG1365855
1,3-Dichloropropane	U		0.147	1.00	1	10/19/2019 19:29	WG1365855
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/19/2019 19:29	WG1365855
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/19/2019 19:29	WG1365855
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/19/2019 19:29	WG1365855
2,2-Dichloropropane	U		0.0929	0.500	1	10/19/2019 19:29	WG1365855
Di-isopropyl ether	U		0.0924	0.500	1	10/19/2019 19:29	WG1365855
Ethylbenzene	U		0.158	0.500	1	10/19/2019 19:29	WG1365855
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/19/2019 19:29	WG1365855
2-Hexanone	U		0.757	5.00	1	10/19/2019 19:29	WG1365855
n-Hexane	U		0.305	5.00	1	10/19/2019 19:29	WG1365855
Iodomethane	U		0.377	10.0	1	10/19/2019 19:29	WG1365855
Isopropylbenzene	U		0.126	0.500	1	10/19/2019 19:29	WG1365855
p-Isopropyltoluene	U		0.138	0.500	1	10/19/2019 19:29	WG1365855
2-Butanone (MEK)	2.39	J	1.28	5.00	1	10/19/2019 19:29	WG1365855
Methylene Chloride	U		1.07	2.50	1	10/19/2019 19:29	WG1365855
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/19/2019 19:29	WG1365855
Methyl tert-butyl ether	U		0.102	0.500	1	10/19/2019 19:29	WG1365855
Naphthalene	U		0.174	2.50	1	10/19/2019 19:29	WG1365855
n-Propylbenzene	U		0.162	0.500	1	10/19/2019 19:29	WG1365855
Styrene	U		0.117	0.500	1	10/19/2019 19:29	WG1365855
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/19/2019 19:29	WG1365855
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/19/2019 19:29	WG1365855
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/19/2019 19:29	WG1365855
Tetrachloroethene	20.4		0.199	0.500	1	10/19/2019 19:29	WG1365855
Toluene	U		0.412	0.500	1	10/19/2019 19:29	WG1365855
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/19/2019 19:29	WG1365855
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/19/2019 19:29	WG1365855
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/19/2019 19:29	WG1365855
1,1,2-Trichloroethane	U		0.186	0.500	1	10/19/2019 19:29	WG1365855
Trichloroethene	46.1		0.153	0.500	1	10/19/2019 19:29	WG1365855
Trichlorofluoromethane	U		0.130	2.50	1	10/19/2019 19:29	WG1365855
1,2,3-Trichloropropane	U		0.247	2.50	1	10/19/2019 19:29	WG1365855
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/19/2019 19:29	WG1365855
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/19/2019 19:29	WG1365855
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/19/2019 19:29	WG1365855
Vinyl acetate	U		0.645	5.00	1	10/19/2019 19:29	WG1365855
Vinyl chloride	25.1		0.118	0.500	1	10/19/2019 19:29	WG1365855
Xylenes, Total	U		0.316	1.50	1	10/19/2019 19:29	WG1365855
(S) Toluene-d8	*114*			*80.0-120*		*10/19/2019 19:29*	WG1365855
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*10/19/2019 19:29*	WG1365855
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*10/19/2019 19:29*	WG1365855

JC 12/2/19

SCS-2-101019

Collected date/time: 10/10/19 11:35

SAMPLE RESULTS - 05

L1148900

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	10/19/2019 19:49	WG1365855
Acrylonitrile	U		0.873	5.00	1	10/19/2019 19:49	WG1365855
Benzene	20.3		0.0896	0.500	1	10/19/2019 19:49	WG1365855
Bromobenzene	U		0.133	0.500	1	10/19/2019 19:49	WG1365855
Bromodichloromethane	U		0.0800	0.500	1	10/19/2019 19:49	WG1365855
Bromochloromethane	U		0.145	0.500	1	10/19/2019 19:49	WG1365855
Bromoform	U		0.186	0.500	1	10/19/2019 19:49	WG1365855
Bromomethane	U		0.157	2.50	1	10/19/2019 19:49	WG1365855
n-Butylbenzene	U		0.143	0.500	1	10/19/2019 19:49	WG1365855
sec-Butylbenzene	2.75		0.134	0.500	1	10/19/2019 19:49	WG1365855
tert-Butylbenzene	U		0.183	0.500	1	10/19/2019 19:49	WG1365855
Carbon disulfide	U		0.101	0.500	1	10/19/2019 19:49	WG1365855
Carbon tetrachloride	U		0.159	0.500	1	10/19/2019 19:49	WG1365855
Chlorobenzene	U		0.140	0.500	1	10/19/2019 19:49	WG1365855
Chlorodibromomethane	U		0.128	0.500	1	10/19/2019 19:49	WG1365855
Chloroethane	U		0.141	2.50	1	10/19/2019 19:49	WG1365855
Chloroform	U		0.0860	0.500	1	10/19/2019 19:49	WG1365855
Chloromethane	U		0.153	1.25	1	10/19/2019 19:49	WG1365855
2-Chlorotoluene	U		0.111	0.500	1	10/19/2019 19:49	WG1365855
4-Chlorotoluene	U		0.0972	0.500	1	10/19/2019 19:49	WG1365855
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/19/2019 19:49	WG1365855
1,2-Dibromoethane	U		0.193	0.500	1	10/19/2019 19:49	WG1365855
Dibromomethane	U		0.117	0.500	1	10/19/2019 19:49	WG1365855
1,2-Dichlorobenzene	U		0.101	0.500	1	10/19/2019 19:49	WG1365855
1,3-Dichlorobenzene	U		0.130	0.500	1	10/19/2019 19:49	WG1365855
1,4-Dichlorobenzene	U		0.121	0.500	1	10/19/2019 19:49	WG1365855
Dichlorodifluoromethane	U		0.127	2.50	1	10/19/2019 19:49	WG1365855
1,1-Dichloroethane	U		0.114	0.500	1	10/19/2019 19:49	WG1365855
1,2-Dichloroethane	U		0.108	0.500	1	10/19/2019 19:49	WG1365855
1,1-Dichloroethene	U		0.188	0.500	1	10/19/2019 19:49	WG1365855
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/19/2019 19:49	WG1365855
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/19/2019 19:49	WG1365855
1,2-Dichloropropane	U		0.190	0.500	1	10/19/2019 19:49	WG1365855
1,1-Dichloropropene	U		0.128	0.500	1	10/19/2019 19:49	WG1365855
1,3-Dichloropropane	U		0.147	1.00	1	10/19/2019 19:49	WG1365855
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/19/2019 19:49	WG1365855
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/19/2019 19:49	WG1365855
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/19/2019 19:49	WG1365855
2,2-Dichloropropane	U		0.0929	0.500	1	10/19/2019 19:49	WG1365855
Di-isopropyl ether	0.813		0.0924	0.500	1	10/19/2019 19:49	WG1365855
Ethylbenzene	307		1.58	5.00	10	10/21/2019 14:53	WG1366289
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/19/2019 19:49	WG1365855
2-Hexanone	U		0.757	5.00	1	10/19/2019 19:49	WG1365855
n-Hexane	14.1		0.305	5.00	1	10/19/2019 19:49	WG1365855
Iodomethane	U		0.377	10.0	1	10/19/2019 19:49	WG1365855
Isopropylbenzene	28.7		0.126	0.500	1	10/19/2019 19:49	WG1365855
p-Isopropyltoluene	0.676		0.138	0.500	1	10/19/2019 19:49	WG1365855
2-Butanone (MEK)	U		1.28	5.00	1	10/19/2019 19:49	WG1365855
Methylene Chloride	U		1.07	2.50	1	10/19/2019 19:49	WG1365855
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/19/2019 19:49	WG1365855
Methyl tert-butyl ether	U		0.102	0.500	1	10/19/2019 19:49	WG1365855
Naphthalene	89.5 J	J0	1.74	25.0	10	10/21/2019 14:53	WG1366289
n-Propylbenzene	58.4		0.162	0.500	1	10/19/2019 19:49	WG1365855
Styrene	U		0.117	0.500	1	10/19/2019 19:49	WG1365855
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/19/2019 19:49	WG1365855
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/19/2019 19:49	WG1365855

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/19/2019 19:49	WG1365855
Tetrachloroethene	U		0.199	0.500	1	10/19/2019 19:49	WG1365855
Toluene	6.00		0.412	0.500	1	10/19/2019 19:49	WG1365855
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/19/2019 19:49	WG1365855
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/19/2019 19:49	WG1365855
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/19/2019 19:49	WG1365855
1,1,2-Trichloroethane	U		0.186	0.500	1	10/19/2019 19:49	WG1365855
Trichloroethene	U		0.153	0.500	1	10/19/2019 19:49	WG1365855
Trichlorofluoromethane	U		0.130	2.50	1	10/19/2019 19:49	WG1365855
1,2,3-Trichloropropane	U		0.247	2.50	1	10/19/2019 19:49	WG1365855
1,2,4-Trimethylbenzene	130		0.123	0.500	1	10/19/2019 19:49	WG1365855
1,2,3-Trimethylbenzene	119		0.0739	0.500	1	10/19/2019 19:49	WG1365855
1,3,5-Trimethylbenzene	8.19		0.124	0.500	1	10/19/2019 19:49	WG1365855
Vinyl acetate	U		0.645	5.00	1	10/19/2019 19:49	WG1365855
Vinyl chloride	U		0.118	0.500	1	10/19/2019 19:49	WG1365855
Xylenes, Total	123		0.316	1.50	1	10/19/2019 19:49	WG1365855
(S) Toluene-d8	*106*			*80.0-120*		*10/19/2019 19:49*	WG1365855
(S) Toluene-d8	*109*			*80.0-120*		*10/21/2019 14:53*	WG1366289
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*10/19/2019 19:49*	WG1365855
(S) 4-Bromofluorobenzene	*89.8*			*77.0-126*		*10/21/2019 14:53*	WG1366289
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*10/19/2019 19:49*	WG1365855
(S) 1,2-Dichloroethane-d4	*95.0*			*70.0-130*		*10/21/2019 14:53*	WG1366289

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 12/2/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	570000		2710	20000	1	10/18/2019 00:22	WG1364209

Sample Narrative:

L1148900-06 WG1364209: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	26100		51.9	1000	1	10/11/2019 21:07	WG1361340
Nitrate	U		22.7	100	1	10/11/2019 21:07	WG1361340
Sulfate	43700		77.4	5000	1	10/11/2019 21:07	WG1361340

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5830	~~B~~	102	1000	1	10/14/2019 04:05	WG1362294

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	13500		150	1000	10	10/17/2019 00:24	WG1363727
Manganese	1760		2.50	50.0	10	10/17/2019 00:24	WG1363727

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3650		0.287	0.678	1	10/14/2019 16:23	WG1362474
Ethane	70.7		0.296	1.29	1	10/14/2019 16:23	WG1362474
Ethene	6.24		0.422	1.27	1	10/14/2019 16:23	WG1362474

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.73	J	1.05	25.0	1	10/19/2019 20:09	WG1365855
Acrylonitrile	U		0.873	5.00	1	10/19/2019 20:09	WG1365855
Benzene	3.16		0.0896	0.500	1	10/19/2019 20:09	WG1365855
Bromobenzene	U		0.133	0.500	1	10/19/2019 20:09	WG1365855
Bromodichloromethane	U		0.0800	0.500	1	10/19/2019 20:09	WG1365855
Bromochloromethane	U		0.145	0.500	1	10/19/2019 20:09	WG1365855
Bromoform	U		0.186	0.500	1	10/19/2019 20:09	WG1365855
Bromomethane	U		0.157	2.50	1	10/19/2019 20:09	WG1365855
n-Butylbenzene	U		0.143	0.500	1	10/19/2019 20:09	WG1365855
sec-Butylbenzene	U		0.134	0.500	1	10/19/2019 20:09	WG1365855
tert-Butylbenzene	U		0.183	0.500	1	10/19/2019 20:09	WG1365855
Carbon disulfide	U		0.101	0.500	1	10/19/2019 20:09	WG1365855
Carbon tetrachloride	U		0.159	0.500	1	10/19/2019 20:09	WG1365855
Chlorobenzene	U		0.140	0.500	1	10/19/2019 20:09	WG1365855
Chlorodibromomethane	U		0.128	0.500	1	10/19/2019 20:09	WG1365855
Chloroethane	U		0.141	2.50	1	10/19/2019 20:09	WG1365855
Chloroform	U		0.0860	0.500	1	10/19/2019 20:09	WG1365855
Chloromethane	U		0.153	1.25	1	10/19/2019 20:09	WG1365855
2-Chlorotoluene	U		0.111	0.500	1	10/19/2019 20:09	WG1365855
4-Chlorotoluene	U		0.0972	0.500	1	10/19/2019 20:09	WG1365855

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/19/2019 20:09	WG1365855
1,2-Dibromoethane	U		0.193	0.500	1	10/19/2019 20:09	WG1365855
Dibromomethane	U		0.117	0.500	1	10/19/2019 20:09	WG1365855
1,2-Dichlorobenzene	U		0.101	0.500	1	10/19/2019 20:09	WG1365855
1,3-Dichlorobenzene	U		0.130	0.500	1	10/19/2019 20:09	WG1365855
1,4-Dichlorobenzene	U		0.121	0.500	1	10/19/2019 20:09	WG1365855
Dichlorodifluoromethane	U		0.127	2.50	1	10/19/2019 20:09	WG1365855
1,1-Dichloroethane	U		0.114	0.500	1	10/19/2019 20:09	WG1365855
1,2-Dichloroethane	U		0.108	0.500	1	10/19/2019 20:09	WG1365855
1,1-Dichloroethene	9.11		0.188	0.500	1	10/19/2019 20:09	WG1365855
cis-1,2-Dichloroethene	1080		2.33	12.5	25	10/21/2019 15:13	WG1366289
trans-1,2-Dichloroethene	5.55		0.152	0.500	1	10/19/2019 20:09	WG1365855
1,2-Dichloropropane	U		0.190	0.500	1	10/19/2019 20:09	WG1365855
1,1-Dichloropropene	U		0.128	0.500	1	10/19/2019 20:09	WG1365855
1,3-Dichloropropane	U		0.147	1.00	1	10/19/2019 20:09	WG1365855
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/19/2019 20:09	WG1365855
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/19/2019 20:09	WG1365855
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/19/2019 20:09	WG1365855
2,2-Dichloropropane	U		0.0929	0.500	1	10/19/2019 20:09	WG1365855
Di-isopropyl ether	U		0.0924	0.500	1	10/19/2019 20:09	WG1365855
Ethylbenzene	0.327	J	0.158	0.500	1	10/19/2019 20:09	WG1365855
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/19/2019 20:09	WG1365855
2-Hexanone	U		0.757	5.00	1	10/19/2019 20:09	WG1365855
n-Hexane	U		0.305	5.00	1	10/19/2019 20:09	WG1365855
Iodomethane	U		0.377	10.0	1	10/19/2019 20:09	WG1365855
Isopropylbenzene	U		0.126	0.500	1	10/19/2019 20:09	WG1365855
p-Isopropyltoluene	U		0.138	0.500	1	10/19/2019 20:09	WG1365855
2-Butanone (MEK)	U		1.28	5.00	1	10/19/2019 20:09	WG1365855
Methylene Chloride	U		1.07	2.50	1	10/19/2019 20:09	WG1365855
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/19/2019 20:09	WG1365855
Methyl tert-butyl ether	U		0.102	0.500	1	10/19/2019 20:09	WG1365855
Naphthalene	23.8 U	~~B J J0~~	4.35	62.5	25	10/21/2019 15:13	WG1366289
n-Propylbenzene	0.177	J	0.162	0.500	1	10/19/2019 20:09	WG1365855
Styrene	U		0.117	0.500	1	10/19/2019 20:09	WG1365855
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/19/2019 20:09	WG1365855
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/19/2019 20:09	WG1365855
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/19/2019 20:09	WG1365855
Tetrachloroethene	524		4.98	12.5	25	10/21/2019 15:13	WG1366289
Toluene	U		0.412	0.500	1	10/19/2019 20:09	WG1365855
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/19/2019 20:09	WG1365855
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/19/2019 20:09	WG1365855
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/19/2019 20:09	WG1365855
1,1,2-Trichloroethane	U		0.186	0.500	1	10/19/2019 20:09	WG1365855
Trichloroethene	483		3.83	12.5	25	10/21/2019 15:13	WG1366289
Trichlorofluoromethane	U		0.130	2.50	1	10/19/2019 20:09	WG1365855
1,2,3-Trichloropropane	U		0.247	2.50	1	10/19/2019 20:09	WG1365855
1,2,4-Trimethylbenzene	0.392	J	0.123	0.500	1	10/19/2019 20:09	WG1365855
1,2,3-Trimethylbenzene	0.556		0.0739	0.500	1	10/19/2019 20:09	WG1365855
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/19/2019 20:09	WG1365855
Vinyl acetate	U		0.645	5.00	1	10/19/2019 20:09	WG1365855
Vinyl chloride	194		0.118	0.500	1	10/19/2019 20:09	WG1365855
Xylenes, Total	U		0.316	1.50	1	10/19/2019 20:09	WG1365855
(S) Toluene-d8	*115*			*80.0-120*		*10/19/2019 20:09*	WG1365855
(S) Toluene-d8	*111*			*80.0-120*		*10/21/2019 15:13*	WG1366289
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*10/19/2019 20:09*	WG1365855
(S) 4-Bromofluorobenzene	*92.6*			*77.0-126*		*10/21/2019 15:13*	WG1366289

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*		*10/19/2019 20:09*	WG1365855
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*10/21/2019 15:13*	WG1366289

JC 12/2/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	378000		2710	20000	1	10/18/2019 00:28	WG1364209

Sample Narrative:

L1148900-07 WG1364209: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	11600		51.9	1000	1	10/11/2019 21:42	WG1361340
Nitrate	199		22.7	100	1	10/11/2019 21:42	WG1361340
Sulfate	66300		77.4	5000	1	10/11/2019 21:42	WG1361340

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4390	~~B~~	102	1000	1	10/14/2019 04:27	WG1362294

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2150		15.0	100	1	10/16/2019 23:05	WG1363727
Manganese	1590		2.50	50.0	10	10/17/2019 00:48	WG1363727

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	76.2		0.287	0.678	1	10/14/2019 16:28	WG1362474
Ethane	U		0.296	1.29	1	10/14/2019 16:28	WG1362474
Ethene	U		0.422	1.27	1	10/14/2019 16:28	WG1362474

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	10/19/2019 20:30	WG1365855
Acrylonitrile	U		0.873	5.00	1	10/19/2019 20:30	WG1365855
Benzene	U		0.0896	0.500	1	10/19/2019 20:30	WG1365855
Bromobenzene	U		0.133	0.500	1	10/19/2019 20:30	WG1365855
Bromodichloromethane	U		0.0800	0.500	1	10/19/2019 20:30	WG1365855
Bromochloromethane	U		0.145	0.500	1	10/19/2019 20:30	WG1365855
Bromoform	U		0.186	0.500	1	10/19/2019 20:30	WG1365855
Bromomethane	U		0.157	2.50	1	10/19/2019 20:30	WG1365855
n-Butylbenzene	U		0.143	0.500	1	10/19/2019 20:30	WG1365855
sec-Butylbenzene	U		0.134	0.500	1	10/19/2019 20:30	WG1365855
tert-Butylbenzene	U		0.183	0.500	1	10/19/2019 20:30	WG1365855
Carbon disulfide	U		0.101	0.500	1	10/19/2019 20:30	WG1365855
Carbon tetrachloride	U		0.159	0.500	1	10/19/2019 20:30	WG1365855
Chlorobenzene	U		0.140	0.500	1	10/19/2019 20:30	WG1365855
Chlorodibromomethane	U		0.128	0.500	1	10/19/2019 20:30	WG1365855
Chloroethane	U		0.141	2.50	1	10/19/2019 20:30	WG1365855
Chloroform	U		0.0860	0.500	1	10/19/2019 20:30	WG1365855
Chloromethane	U		0.153	1.25	1	10/19/2019 20:30	WG1365855
2-Chlorotoluene	U		0.111	0.500	1	10/19/2019 20:30	WG1365855
4-Chlorotoluene	U		0.0972	0.500	1	10/19/2019 20:30	WG1365855

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/19/2019 20:30	WG1365855
1,2-Dibromoethane	U		0.193	0.500	1	10/19/2019 20:30	WG1365855
Dibromomethane	U		0.117	0.500	1	10/19/2019 20:30	WG1365855
1,2-Dichlorobenzene	U		0.101	0.500	1	10/19/2019 20:30	WG1365855
1,3-Dichlorobenzene	U		0.130	0.500	1	10/19/2019 20:30	WG1365855
1,4-Dichlorobenzene	U		0.121	0.500	1	10/19/2019 20:30	WG1365855
Dichlorodifluoromethane	U		0.127	2.50	1	10/19/2019 20:30	WG1365855
1,1-Dichloroethane	U		0.114	0.500	1	10/19/2019 20:30	WG1365855
1,2-Dichloroethane	U		0.108	0.500	1	10/19/2019 20:30	WG1365855
1,1-Dichloroethene	U		0.188	0.500	1	10/19/2019 20:30	WG1365855
cis-1,2-Dichloroethene	7.34		0.0933	0.500	1	10/21/2019 15:33	WG1366289
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/19/2019 20:30	WG1365855
1,2-Dichloropropane	U		0.190	0.500	1	10/19/2019 20:30	WG1365855
1,1-Dichloropropene	U		0.128	0.500	1	10/19/2019 20:30	WG1365855
1,3-Dichloropropane	U		0.147	1.00	1	10/19/2019 20:30	WG1365855
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/19/2019 20:30	WG1365855
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/19/2019 20:30	WG1365855
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/19/2019 20:30	WG1365855
2,2-Dichloropropane	U		0.0929	0.500	1	10/19/2019 20:30	WG1365855
Di-isopropyl ether	U		0.0924	0.500	1	10/19/2019 20:30	WG1365855
Ethylbenzene	U		0.158	0.500	1	10/19/2019 20:30	WG1365855
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/19/2019 20:30	WG1365855
2-Hexanone	U		0.757	5.00	1	10/19/2019 20:30	WG1365855
n-Hexane	U		0.305	5.00	1	10/19/2019 20:30	WG1365855
Iodomethane	U		0.377	10.0	1	10/19/2019 20:30	WG1365855
Isopropylbenzene	U		0.126	0.500	1	10/19/2019 20:30	WG1365855
p-Isopropyltoluene	U		0.138	0.500	1	10/19/2019 20:30	WG1365855
2-Butanone (MEK)	U		1.28	5.00	1	10/19/2019 20:30	WG1365855
Methylene Chloride	U		1.07	2.50	1	10/19/2019 20:30	WG1365855
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/19/2019 20:30	WG1365855
Methyl tert-butyl ether	U		0.102	0.500	1	10/19/2019 20:30	WG1365855
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 15:33	WG1366289
n-Propylbenzene	U		0.162	0.500	1	10/19/2019 20:30	WG1365855
Styrene	U		0.117	0.500	1	10/19/2019 20:30	WG1365855
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/19/2019 20:30	WG1365855
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/19/2019 20:30	WG1365855
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/19/2019 20:30	WG1365855
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 15:33	WG1366289
Toluene	U		0.412	0.500	1	10/19/2019 20:30	WG1365855
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/19/2019 20:30	WG1365855
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/19/2019 20:30	WG1365855
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/19/2019 20:30	WG1365855
1,1,2-Trichloroethane	U		0.186	0.500	1	10/19/2019 20:30	WG1365855
Trichloroethene	U		0.153	0.500	1	10/21/2019 15:33	WG1366289
Trichlorofluoromethane	U		0.130	2.50	1	10/19/2019 20:30	WG1365855
1,2,3-Trichloropropane	U		0.247	2.50	1	10/19/2019 20:30	WG1365855
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/19/2019 20:30	WG1365855
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/19/2019 20:30	WG1365855
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/19/2019 20:30	WG1365855
Vinyl acetate	U		0.645	5.00	1	10/19/2019 20:30	WG1365855
Vinyl chloride	1.09		0.118	0.500	1	10/19/2019 20:30	WG1365855
Xylenes, Total	U		0.316	1.50	1	10/19/2019 20:30	WG1365855
(S) Toluene-d8	*112*			*80.0-120*		*10/19/2019 20:30*	WG1365855
(S) Toluene-d8	*113*			*80.0-120*		*10/21/2019 15:33*	WG1366289
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*10/19/2019 20:30*	WG1365855
(S) 4-Bromofluorobenzene	*94.9*			*77.0-126*		*10/21/2019 15:33*	WG1366289

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*10/19/2019 20:30*	WG1365855
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*		*10/21/2019 15:33*	WG1366289

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	786000		2710	20000	1	10/17/2019 16:38	WG1364211

Sample Narrative:

L1148900-08 WG1364211: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	10700		51.9	1000	1	10/11/2019 22:00	WG1361340
Nitrate	U		22.7	100	1	10/11/2019 22:00	WG1361340
Sulfate	88000		77.4	5000	1	10/11/2019 22:00	WG1361340

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	8930		102	1000	1	10/14/2019 04:49	WG1362294

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	11200		300	2000	20	10/17/2019 00:37	WG1363727
Manganese	3010		5.00	100	20	10/17/2019 00:37	WG1363727

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	558		0.287	0.678	1	10/14/2019 16:32	WG1362474
Ethane	U		0.296	1.29	1	10/14/2019 16:32	WG1362474
Ethene	U		0.422	1.27	1	10/14/2019 16:32	WG1362474

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.91	J	1.05	25.0	1	10/19/2019 20:50	WG1365855
Acrylonitrile	U		0.873	5.00	1	10/19/2019 20:50	WG1365855
Benzene	U		0.0896	0.500	1	10/19/2019 20:50	WG1365855
Bromobenzene	U		0.133	0.500	1	10/19/2019 20:50	WG1365855
Bromodichloromethane	U		0.0800	0.500	1	10/19/2019 20:50	WG1365855
Bromochloromethane	U		0.145	0.500	1	10/19/2019 20:50	WG1365855
Bromoform	U		0.186	0.500	1	10/19/2019 20:50	WG1365855
Bromomethane	U		0.157	2.50	1	10/19/2019 20:50	WG1365855
n-Butylbenzene	U		0.143	0.500	1	10/19/2019 20:50	WG1365855
sec-Butylbenzene	U		0.134	0.500	1	10/19/2019 20:50	WG1365855
tert-Butylbenzene	U		0.183	0.500	1	10/19/2019 20:50	WG1365855
Carbon disulfide	U		0.101	0.500	1	10/19/2019 20:50	WG1365855
Carbon tetrachloride	U		0.159	0.500	1	10/19/2019 20:50	WG1365855
Chlorobenzene	U		0.140	0.500	1	10/19/2019 20:50	WG1365855
Chlorodibromomethane	U		0.128	0.500	1	10/19/2019 20:50	WG1365855
Chloroethane	U		0.141	2.50	1	10/19/2019 20:50	WG1365855
Chloroform	U		0.0860	0.500	1	10/19/2019 20:50	WG1365855
Chloromethane	U		0.153	1.25	1	10/19/2019 20:50	WG1365855
2-Chlorotoluene	U		0.111	0.500	1	10/19/2019 20:50	WG1365855
4-Chlorotoluene	U		0.0972	0.500	1	10/19/2019 20:50	WG1365855

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/19/2019 20:50	WG1365855
1,2-Dibromoethane	U		0.193	0.500	1	10/19/2019 20:50	WG1365855
Dibromomethane	U		0.117	0.500	1	10/19/2019 20:50	WG1365855
1,2-Dichlorobenzene	U		0.101	0.500	1	10/19/2019 20:50	WG1365855
1,3-Dichlorobenzene	U		0.130	0.500	1	10/19/2019 20:50	WG1365855
1,4-Dichlorobenzene	U		0.121	0.500	1	10/19/2019 20:50	WG1365855
Dichlorodifluoromethane	U		0.127	2.50	1	10/19/2019 20:50	WG1365855
1,1-Dichloroethane	U		0.114	0.500	1	10/19/2019 20:50	WG1365855
1,2-Dichloroethane	U		0.108	0.500	1	10/19/2019 20:50	WG1365855
1,1-Dichloroethene	U		0.188	0.500	1	10/19/2019 20:50	WG1365855
cis-1,2-Dichloroethene	0.148	J	0.0933	0.500	1	10/21/2019 16:18	WG1366289
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/19/2019 20:50	WG1365855
1,2-Dichloropropane	U		0.190	0.500	1	10/19/2019 20:50	WG1365855
1,1-Dichloropropene	U		0.128	0.500	1	10/19/2019 20:50	WG1365855
1,3-Dichloropropane	U		0.147	1.00	1	10/19/2019 20:50	WG1365855
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/19/2019 20:50	WG1365855
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/19/2019 20:50	WG1365855
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/19/2019 20:50	WG1365855
2,2-Dichloropropane	U		0.0929	0.500	1	10/19/2019 20:50	WG1365855
Di-isopropyl ether	U		0.0924	0.500	1	10/19/2019 20:50	WG1365855
Ethylbenzene	U		0.158	0.500	1	10/19/2019 20:50	WG1365855
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/19/2019 20:50	WG1365855
2-Hexanone	U		0.757	5.00	1	10/19/2019 20:50	WG1365855
n-Hexane	U		0.305	5.00	1	10/19/2019 20:50	WG1365855
Iodomethane	U		0.377	10.0	1	10/19/2019 20:50	WG1365855
Isopropylbenzene	0.352	J	0.126	0.500	1	10/19/2019 20:50	WG1365855
p-Isopropyltoluene	U		0.138	0.500	1	10/19/2019 20:50	WG1365855
2-Butanone (MEK)	U		1.28	5.00	1	10/19/2019 20:50	WG1365855
Methylene Chloride	U		1.07	2.50	1	10/19/2019 20:50	WG1365855
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/19/2019 20:50	WG1365855
Methyl tert-butyl ether	U		0.102	0.500	1	10/19/2019 20:50	WG1365855
Naphthalene	U		0.174	2.50	1	10/21/2019 16:18	WG1366289
n-Propylbenzene	U		0.162	0.500	1	10/19/2019 20:50	WG1365855
Styrene	U		0.117	0.500	1	10/19/2019 20:50	WG1365855
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/19/2019 20:50	WG1365855
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/19/2019 20:50	WG1365855
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/19/2019 20:50	WG1365855
Tetrachloroethene	U		0.199	0.500	1	10/19/2019 20:50	WG1365855
Toluene	U		0.412	0.500	1	10/19/2019 20:50	WG1365855
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/19/2019 20:50	WG1365855
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/19/2019 20:50	WG1365855
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/19/2019 20:50	WG1365855
1,1,2-Trichloroethane	U		0.186	0.500	1	10/19/2019 20:50	WG1365855
Trichloroethene	U		0.153	0.500	1	10/21/2019 16:18	WG1366289
Trichlorofluoromethane	U		0.130	2.50	1	10/19/2019 20:50	WG1365855
1,2,3-Trichloropropane	U		0.247	2.50	1	10/19/2019 20:50	WG1365855
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/19/2019 20:50	WG1365855
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/19/2019 20:50	WG1365855
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/19/2019 20:50	WG1365855
Vinyl acetate	U		0.645	5.00	1	10/19/2019 20:50	WG1365855
Vinyl chloride	U		0.118	0.500	1	10/19/2019 20:50	WG1365855
Xylenes, Total	U		0.316	1.50	1	10/19/2019 20:50	WG1365855
(S) Toluene-d8	*111*			*80.0-120*		*10/19/2019 20:50*	WG1365855
(S) Toluene-d8	*112*			*80.0-120*		*10/21/2019 16:18*	WG1366289
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*10/19/2019 20:50*	WG1365855
(S) 4-Bromofluorobenzene	*93.8*			*77.0-126*		*10/21/2019 16:18*	WG1366289

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*		*10/19/2019 20:50*	WG1365855
(S) 1,2-Dichloroethane-d4	*94.3*			*70.0-130*		*10/21/2019 16:18*	WG1366289

JC 12/2/19

MW-119-101019
Collected date/time: 10/10/19 15:35

SAMPLE RESULTS - 09

L1148900

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	226000		2710	20000	1	10/17/2019 16:44	WG1364211

Sample Narrative:

L1148900-09 WG1364211: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	18600		51.9	1000	1	10/11/2019 22:18	WG1361340
Nitrate	U		22.7	100	1	10/11/2019 22:18	WG1361340
Sulfate	26400		77.4	5000	1	10/11/2019 22:18	WG1361340

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4980	~~B~~	102	1000	1	10/14/2019 05:09	WG1362294

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	10700		300	2000	20	10/17/2019 00:40	WG1363727
Manganese	2630		5.00	100	20	10/17/2019 00:40	WG1363727

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	289		0.287	0.678	1	10/14/2019 16:35	WG1362474
Ethane	U		0.296	1.29	1	10/14/2019 16:35	WG1362474
Ethene	U		0.422	1.27	1	10/14/2019 16:35	WG1362474

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.20	J	1.05	25.0	1	10/19/2019 21:10	WG1365855
Acrylonitrile	U		0.873	5.00	1	10/19/2019 21:10	WG1365855
Benzene	U		0.0896	0.500	1	10/19/2019 21:10	WG1365855
Bromobenzene	U		0.133	0.500	1	10/19/2019 21:10	WG1365855
Bromodichloromethane	U		0.0800	0.500	1	10/19/2019 21:10	WG1365855
Bromochloromethane	U		0.145	0.500	1	10/19/2019 21:10	WG1365855
Bromoform	U		0.186	0.500	1	10/19/2019 21:10	WG1365855
Bromomethane	U		0.157	2.50	1	10/19/2019 21:10	WG1365855
n-Butylbenzene	U		0.143	0.500	1	10/19/2019 21:10	WG1365855
sec-Butylbenzene	U		0.134	0.500	1	10/19/2019 21:10	WG1365855
tert-Butylbenzene	U		0.183	0.500	1	10/19/2019 21:10	WG1365855
Carbon disulfide	U		0.101	0.500	1	10/19/2019 21:10	WG1365855
Carbon tetrachloride	U		0.159	0.500	1	10/19/2019 21:10	WG1365855
Chlorobenzene	U		0.140	0.500	1	10/19/2019 21:10	WG1365855
Chlorodibromomethane	U		0.128	0.500	1	10/19/2019 21:10	WG1365855
Chloroethane	U		0.141	2.50	1	10/19/2019 21:10	WG1365855
Chloroform	U		0.0860	0.500	1	10/19/2019 21:10	WG1365855
Chloromethane	U		0.153	1.25	1	10/19/2019 21:10	WG1365855
2-Chlorotoluene	U		0.111	0.500	1	10/19/2019 21:10	WG1365855
4-Chlorotoluene	U		0.0972	0.500	1	10/19/2019 21:10	WG1365855

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/19/2019 21:10	WG1365855
1,2-Dibromoethane	U		0.193	0.500	1	10/19/2019 21:10	WG1365855
Dibromomethane	U		0.117	0.500	1	10/19/2019 21:10	WG1365855
1,2-Dichlorobenzene	U		0.101	0.500	1	10/19/2019 21:10	WG1365855
1,3-Dichlorobenzene	U		0.130	0.500	1	10/19/2019 21:10	WG1365855
1,4-Dichlorobenzene	U		0.121	0.500	1	10/19/2019 21:10	WG1365855
Dichlorodifluoromethane	U		0.127	2.50	1	10/19/2019 21:10	WG1365855
1,1-Dichloroethane	U		0.114	0.500	1	10/19/2019 21:10	WG1365855
1,2-Dichloroethane	U		0.108	0.500	1	10/19/2019 21:10	WG1365855
1,1-Dichloroethene	U		0.188	0.500	1	10/19/2019 21:10	WG1365855
cis-1,2-Dichloroethene	12.6		0.0933	0.500	1	10/19/2019 21:10	WG1365855
trans-1,2-Dichloroethene	0.159	J	0.152	0.500	1	10/19/2019 21:10	WG1365855
1,2-Dichloropropane	U		0.190	0.500	1	10/19/2019 21:10	WG1365855
1,1-Dichloropropene	U		0.128	0.500	1	10/19/2019 21:10	WG1365855
1,3-Dichloropropane	U		0.147	1.00	1	10/19/2019 21:10	WG1365855
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/19/2019 21:10	WG1365855
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/19/2019 21:10	WG1365855
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/19/2019 21:10	WG1365855
2,2-Dichloropropane	U		0.0929	0.500	1	10/19/2019 21:10	WG1365855
Di-isopropyl ether	U		0.0924	0.500	1	10/19/2019 21:10	WG1365855
Ethylbenzene	U		0.158	0.500	1	10/19/2019 21:10	WG1365855
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/19/2019 21:10	WG1365855
2-Hexanone	U		0.757	5.00	1	10/19/2019 21:10	WG1365855
n-Hexane	U		0.305	5.00	1	10/19/2019 21:10	WG1365855
Iodomethane	U		0.377	10.0	1	10/19/2019 21:10	WG1365855
Isopropylbenzene	U		0.126	0.500	1	10/19/2019 21:10	WG1365855
p-Isopropyltoluene	U		0.138	0.500	1	10/19/2019 21:10	WG1365855
2-Butanone (MEK)	U		1.28	5.00	1	10/19/2019 21:10	WG1365855
Methylene Chloride	U		1.07	2.50	1	10/19/2019 21:10	WG1365855
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/19/2019 21:10	WG1365855
Methyl tert-butyl ether	U		0.102	0.500	1	10/19/2019 21:10	WG1365855
Naphthalene	U		0.174	2.50	1	10/19/2019 21:10	WG1365855
n-Propylbenzene	U		0.162	0.500	1	10/19/2019 21:10	WG1365855
Styrene	U		0.117	0.500	1	10/19/2019 21:10	WG1365855
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/19/2019 21:10	WG1365855
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/19/2019 21:10	WG1365855
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/19/2019 21:10	WG1365855
Tetrachloroethene	0.876		0.199	0.500	1	10/19/2019 21:10	WG1365855
Toluene	U		0.412	0.500	1	10/19/2019 21:10	WG1365855
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/19/2019 21:10	WG1365855
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/19/2019 21:10	WG1365855
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/19/2019 21:10	WG1365855
1,1,2-Trichloroethane	U		0.186	0.500	1	10/19/2019 21:10	WG1365855
Trichloroethene	7.54		0.153	0.500	1	10/19/2019 21:10	WG1365855
Trichlorofluoromethane	U		0.130	2.50	1	10/19/2019 21:10	WG1365855
1,2,3-Trichloropropane	U		0.247	2.50	1	10/19/2019 21:10	WG1365855
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/19/2019 21:10	WG1365855
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/19/2019 21:10	WG1365855
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/19/2019 21:10	WG1365855
Vinyl acetate	U		0.645	5.00	1	10/19/2019 21:10	WG1365855
Vinyl chloride	U		0.118	0.500	1	10/19/2019 21:10	WG1365855
Xylenes, Total	U		0.316	1.50	1	10/19/2019 21:10	WG1365855
(S) Toluene-d8	*115*			*80.0-120*		*10/19/2019 21:10*	WG1365855
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*10/19/2019 21:10*	WG1365855
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*10/19/2019 21:10*	WG1365855

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	828000		6780	50000	2.5	10/19/2019 16:55	WG1365100

Sample Narrative:

L1149387-01 WG1365100: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	21400		51.9	1000	1	10/12/2019 19:01	WG1361957
Nitrate	U		22.7	100	1	10/12/2019 19:01	WG1361957
Sulfate	14000 J		77.4	5000	1	10/12/2019 19:01	WG1361957

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4420		102	1000	1	10/16/2019 19:57	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	8740		15.0	100	1	10/18/2019 13:17	WG1364591
Manganese	218		0.250	5.00	1	10/18/2019 13:17	WG1364591

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	10100		2.87	6.78	10	10/16/2019 11:54	WG1363432
Ethane	U UJ		2.96	12.9	10	10/16/2019 11:54	WG1363432
Ethene	U UJ		4.22	12.7	10	10/16/2019 11:54	WG1363432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U UJ	J0	1.05	25.0	1	10/21/2019 08:47	WG1366365
Acrylonitrile	U UJ	J0	0.873	5.00	1	10/21/2019 08:47	WG1366365
Benzene	1.34		0.0896	0.500	1	10/21/2019 08:47	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 08:47	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 08:47	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 08:47	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 08:47	WG1366365
Bromomethane	U UJ	J0	0.157	2.50	1	10/21/2019 08:47	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 08:47	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 08:47	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 08:47	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 08:47	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 08:47	WG1366365
Chlorobenzene	U		0.140	0.500	1	10/21/2019 08:47	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 08:47	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 08:47	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 08:47	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 08:47	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 08:47	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 08:47	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 08:47	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 08:47	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 08:47	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 08:47	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 08:47	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 08:47	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 08:47	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 08:47	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 08:47	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 08:47	WG1366365
cis-1,2-Dichloroethene	0.841		0.0933	0.500	1	10/21/2019 08:47	WG1366365
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 08:47	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 08:47	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 08:47	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 08:47	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 08:47	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 08:47	WG1366365
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/21/2019 08:47	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 08:47	WG1366365
Di-isopropyl ether	0.137	J	0.0924	0.500	1	10/21/2019 08:47	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 08:47	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 08:47	WG1366365
2-Hexanone	U UJ	J0	0.757	5.00	1	10/21/2019 08:47	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 08:47	WG1366365
Iodomethane	U UJ	J0	0.377	10.0	1	10/21/2019 08:47	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 08:47	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 08:47	WG1366365
2-Butanone (MEK)	U UJ	J0	1.28	5.00	1	10/21/2019 08:47	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 08:47	WG1366365
4-Methyl-2-pentanone (MIBK)	U UJ	J0	0.823	5.00	1	10/21/2019 08:47	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 08:47	WG1366365
Naphthalene	U UJ	J0	0.174	2.50	1	10/21/2019 08:47	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 08:47	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 08:47	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 08:47	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 08:47	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 08:47	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 08:47	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 08:47	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 08:47	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 08:47	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 08:47	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 08:47	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 08:47	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 08:47	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 08:47	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 08:47	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 08:47	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 08:47	WG1366365
Vinyl acetate	U UJ	J0	0.645	5.00	1	10/21/2019 08:47	WG1366365
Vinyl chloride	24.1 J		0.118	0.500	1	10/21/2019 08:47	WG1366365
Xylenes, Total	U		0.316	1.50	1	10/21/2019 08:47	WG1366365
(S) Toluene-d8	*95.6*			*80.0-120*		*10/21/2019 08:47*	WG1366365
(S) 4-Bromofluorobenzene	*88.4*			*77.0-126*		*10/21/2019 08:47*	WG1366365
(S) 1,2-Dichloroethane-d4	*83.8*			*70.0-130*		*10/21/2019 08:47*	WG1366365

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/21/2019 09:06	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 09:06	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 09:06	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 09:06	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 09:06	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 09:06	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 09:06	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 09:06	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 09:06	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 09:06	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 09:06	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 09:06	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 09:06	WG1366365
Chlorobenzene	U		0.140	0.500	1	10/21/2019 09:06	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 09:06	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 09:06	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 09:06	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 09:06	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 09:06	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 09:06	WG1366365
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 09:06	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 09:06	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 09:06	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 09:06	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 09:06	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 09:06	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 09:06	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 09:06	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 09:06	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 09:06	WG1366365
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/21/2019 09:06	WG1366365
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 09:06	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 09:06	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 09:06	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 09:06	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 09:06	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 09:06	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 09:06	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 09:06	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 09:06	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 09:06	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 09:06	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 09:06	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 09:06	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 09:06	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 09:06	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 09:06	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 09:06	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 09:06	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 09:06	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 09:06	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 09:06	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 09:06	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 09:06	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 09:06	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 09:06	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	10/21/2019 09:06	WG1366365
Tetrachloroethene	U			0.199	0.500	1	10/21/2019 09:06	WG1366365
Toluene	U			0.412	0.500	1	10/21/2019 09:06	WG1366365
1,2,3-Trichlorobenzene	U			0.164	0.500	1	10/21/2019 09:06	WG1366365
1,2,4-Trichlorobenzene	U			0.355	0.500	1	10/21/2019 09:06	WG1366365
1,1,1-Trichloroethane	U			0.0940	0.500	1	10/21/2019 09:06	WG1366365
1,1,2-Trichloroethane	U			0.186	0.500	1	10/21/2019 09:06	WG1366365
Trichloroethene	U			0.153	0.500	1	10/21/2019 09:06	WG1366365
Trichlorofluoromethane	U			0.130	2.50	1	10/21/2019 09:06	WG1366365
1,2,3-Trichloropropane	U			0.247	2.50	1	10/21/2019 09:06	WG1366365
1,2,4-Trimethylbenzene	U			0.123	0.500	1	10/21/2019 09:06	WG1366365
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	10/21/2019 09:06	WG1366365
1,3,5-Trimethylbenzene	U			0.124	0.500	1	10/21/2019 09:06	WG1366365
Vinyl acetate	U	UJ	J0	0.645	5.00	1	10/21/2019 09:06	WG1366365
Vinyl chloride	U			0.118	0.500	1	10/21/2019 09:06	WG1366365
Xylenes, Total	U			0.316	1.50	1	10/21/2019 09:06	WG1366365
(S) Toluene-d8	*98.3*				*80.0-120*		*10/21/2019 09:06*	WG1366365
(S) 4-Bromofluorobenzene	*91.1*				*77.0-126*		*10/21/2019 09:06*	WG1366365
(S) 1,2-Dichloroethane-d4	*82.2*				*70.0-130*		*10/21/2019 09:06*	WG1366365

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	746000		6780	50000	2.5	10/19/2019 17:05	WG1365100

Sample Narrative:

L1149387-03 WG1365100: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	22600		51.9	1000	1	10/12/2019 19:18	WG1361957
Nitrate	U		22.7	100	1	10/12/2019 19:18	WG1361957
Sulfate	20900 J		77.4	5000	1	10/12/2019 19:18	WG1361957

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4200		102	1000	1	10/16/2019 20:15	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	7950		15.0	100	1	10/18/2019 13:20	WG1364591
Manganese	207		0.250	5.00	1	10/18/2019 13:20	WG1364591

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	13100		2.87	6.78	10	10/16/2019 14:53	WG1363429
Ethane	8.49 J		0.296	1.29	1	10/16/2019 12:05	WG1363432
Ethene	23.5 J		0.422	1.27	1	10/16/2019 12:05	WG1363432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U UJ	J0	1.05	25.0	1	10/21/2019 09:26	WG1366365
Acrylonitrile	U UJ	J0	0.873	5.00	1	10/21/2019 09:26	WG1366365
Benzene	0.984		0.0896	0.500	1	10/21/2019 09:26	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 09:26	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 09:26	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 09:26	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 09:26	WG1366365
Bromomethane	U UJ	J0	0.157	2.50	1	10/21/2019 09:26	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 09:26	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 09:26	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 09:26	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 09:26	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 09:26	WG1366365
Chlorobenzene	U		0.140	0.500	1	10/21/2019 09:26	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 09:26	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 09:26	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 09:26	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 09:26	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 09:26	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 09:26	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 09:26	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 09:26	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 09:26	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 09:26	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 09:26	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 09:26	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 09:26	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 09:26	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 09:26	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 09:26	WG1366365
cis-1,2-Dichloroethene	0.619		0.0933	0.500	1	10/21/2019 09:26	WG1366365
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 09:26	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 09:26	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 09:26	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 09:26	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 09:26	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 09:26	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 09:26	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 09:26	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 09:26	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 09:26	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 09:26	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 09:26	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 09:26	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 09:26	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 09:26	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 09:26	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 09:26	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 09:26	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 09:26	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 09:26	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 09:26	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 09:26	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 09:26	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 09:26	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 09:26	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 09:26	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 09:26	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 09:26	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 09:26	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 09:26	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 09:26	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 09:26	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 09:26	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 09:26	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 09:26	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 09:26	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 09:26	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 09:26	WG1366365
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/21/2019 09:26	WG1366365
Vinyl chloride	13.3	J	0.118	0.500	1	10/21/2019 09:26	WG1366365
Xylenes, Total	U		0.316	1.50	1	10/21/2019 09:26	WG1366365
(S) Toluene-d8	*95.1*			*80.0-120*		*10/21/2019 09:26*	WG1366365
(S) 4-Bromofluorobenzene	*90.7*			*77.0-126*		*10/21/2019 09:26*	WG1366365
(S) 1,2-Dichloroethane-d4	*81.2*			*70.0-130*		*10/21/2019 09:26*	WG1366365

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	152000		2710	20000	1	10/19/2019 17:13	WG1365100

Sample Narrative:

L1149387-04 WG1365100: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	6260		51.9	1000	1	10/12/2019 19:34	WG1361957
Nitrate	U		22.7	100	1	10/12/2019 19:34	WG1361957
Sulfate	5920	~~B~~	77.4	5000	1	10/12/2019 19:34	WG1361957

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3780	~~B~~	102	1000	1	10/16/2019 20:32	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2240		15.0	100	1	10/18/2019 13:24	WG1364591
Manganese	301		0.250	5.00	1	10/18/2019 13:24	WG1364591

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/16/2019 16:01	WG1363461
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*10/16/2019 16:01*	WG1363461

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	12.3	U	0.287	0.678	1	10/16/2019 13:29	WG1363432
Ethane	U		0.296	1.29	1	10/16/2019 13:29	WG1363432
Ethene	U		0.422	1.27	1	10/16/2019 13:29	WG1363432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	9.24	J J J0	1.05	25.0	1	10/21/2019 09:46	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 09:46	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 09:46	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 09:46	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 09:46	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 09:46	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 09:46	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 09:46	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 09:46	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 09:46	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 09:46	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 09:46	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 09:46	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/21/2019 09:46	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 09:46	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 09:46	WG1366365
Chloroform	1.06		0.0860	0.500	1	10/21/2019 09:46	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 09:46	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 09:46	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 09:46	WG1366365
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 09:46	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 09:46	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 09:46	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 09:46	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 09:46	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 09:46	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 09:46	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 09:46	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 09:46	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 09:46	WG1366365
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/21/2019 09:46	WG1366365
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 09:46	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 09:46	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 09:46	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 09:46	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 09:46	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 09:46	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 09:46	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 09:46	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 09:46	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 09:46	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 09:46	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 09:46	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 09:46	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 09:46	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 09:46	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 09:46	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 09:46	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 09:46	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 09:46	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 09:46	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 09:46	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 09:46	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 09:46	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 09:46	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 09:46	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 09:46	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 09:46	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 09:46	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 09:46	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 09:46	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 09:46	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 09:46	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 09:46	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 09:46	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 09:46	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 09:46	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 09:46	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 09:46	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U UJ	J0	0.645	5.00	1	10/21/2019 09:46	WG1366365
Vinyl chloride	U		0.118	0.500	1	10/21/2019 09:46	WG1366365
Xylenes, Total	U		0.316	1.50	1	10/21/2019 09:46	WG1366365
(S) Toluene-d8	*97.9*			*80.0-120*		*10/21/2019 09:46*	WG1366365
(S) 4-Bromofluorobenzene	*91.6*			*77.0-126*		*10/21/2019 09:46*	WG1366365
(S) 1,2-Dichloroethane-d4	*84.9*			*70.0-130*		*10/21/2019 09:46*	WG1366365

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Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	276000		2710	20000	1	10/19/2019 17:21	WG1365100

Sample Narrative:

L1149387-05 WG1365100: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	14600		51.9	1000	1	10/12/2019 19:51	WG1361957
Nitrate	U		22.7	100	1	10/12/2019 19:51	WG1361957
Sulfate	69100		77.4	5000	1	10/12/2019 19:51	WG1361957

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4120	~~B~~	102	1000	1	10/16/2019 20:50	WG1364227

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	1030		15.0	100	1	10/18/2019 13:27	WG1364591
Manganese	149		0.250	5.00	1	10/18/2019 13:27	WG1364591

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/16/2019 16:25	WG1363461
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*10/16/2019 16:25*	WG1363461

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	26.6	J+	0.287	0.678	1	10/16/2019 13:00	WG1363432
Ethane	13.0		0.296	1.29	1	10/16/2019 13:00	WG1363432
Ethene	7.90		0.422	1.27	1	10/16/2019 13:00	WG1363432

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.17	J J J0	1.05	25.0	1	10/21/2019 10:05	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 10:05	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 10:05	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 10:05	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 10:05	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 10:05	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 10:05	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 10:05	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 10:05	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 10:05	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 10:05	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 10:05	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 10:05	WG1366365

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MW-307-101119

Collected date/time: 10/11/19 11:35

SAMPLE RESULTS - 05

L1149387

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/21/2019 10:05	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 10:05	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 10:05	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 10:05	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 10:05	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 10:05	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 10:05	WG1366365
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 10:05	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 10:05	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 10:05	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 10:05	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 10:05	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 10:05	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 10:05	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 10:05	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 10:05	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 10:05	WG1366365
cis-1,2-Dichloroethene	0.935		0.0933	0.500	1	10/21/2019 10:05	WG1366365
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 10:05	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 10:05	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 10:05	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 10:05	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 10:05	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 10:05	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 10:05	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 10:05	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 10:05	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 10:05	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 10:05	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 10:05	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 10:05	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 10:05	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 10:05	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 10:05	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 10:05	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 10:05	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 10:05	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 10:05	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 10:05	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 10:05	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 10:05	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 10:05	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 10:05	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 10:05	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 10:05	WG1366365
Toluene	1.05		0.412	0.500	1	10/21/2019 10:05	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 10:05	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 10:05	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 10:05	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 10:05	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 10:05	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 10:05	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 10:05	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 10:05	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 10:05	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 10:05	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/21/2019 10:05	WG1366365
Vinyl chloride	0.289	J	0.118	0.500	1	10/21/2019 10:05	WG1366365
Xylenes, Total	U		0.316	1.50	1	10/21/2019 10:05	WG1366365
(S) Toluene-d8	*96.6*			*80.0-120*		*10/21/2019 10:05*	WG1366365
(S) 4-Bromofluorobenzene	*89.9*			*77.0-126*		*10/21/2019 10:05*	WG1366365
(S) 1,2-Dichloroethane-d4	*83.1*			*70.0-130*		*10/21/2019 10:05*	WG1366365

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/21/2019 10:25	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 10:25	WG1366365
Benzene	1.95		0.0896	0.500	1	10/21/2019 10:25	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 10:25	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 10:25	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 10:25	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 10:25	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 10:25	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 10:25	WG1366365
sec-Butylbenzene	0.384	J	0.134	0.500	1	10/21/2019 10:25	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 10:25	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 10:25	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 10:25	WG1366365
Chlorobenzene	U		0.140	0.500	1	10/21/2019 10:25	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 10:25	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 10:25	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 10:25	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 10:25	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 10:25	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 10:25	WG1366365
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 10:25	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 10:25	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 10:25	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 10:25	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 10:25	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 10:25	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 10:25	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 10:25	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 10:25	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 10:25	WG1366365
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/21/2019 10:25	WG1366365
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 10:25	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 10:25	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 10:25	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 10:25	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 10:25	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 10:25	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 10:25	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 10:25	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 10:25	WG1366365
Ethylbenzene	0.355	J	0.158	0.500	1	10/21/2019 10:25	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 10:25	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 10:25	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 10:25	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 10:25	WG1366365
Isopropylbenzene	1.11		0.126	0.500	1	10/21/2019 10:25	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 10:25	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 10:25	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 10:25	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 10:25	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 10:25	WG1366365
Naphthalene	4.32	J J0	0.174	2.50	1	10/21/2019 10:25	WG1366365
n-Propylbenzene	0.521		0.162	0.500	1	10/21/2019 10:25	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 10:25	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 10:25	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 10:25	WG1366365

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MW-214-101119

Collected date/time: 10/11/19 12:15

SAMPLE RESULTS - 06

L1149387

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 10:25	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 10:25	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 10:25	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 10:25	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 10:25	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 10:25	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 10:25	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 10:25	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 10:25	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 10:25	WG1366365
1,2,4-Trimethylbenzene	0.174	J	0.123	0.500	1	10/21/2019 10:25	WG1366365
1,2,3-Trimethylbenzene	2.69		0.0739	0.500	1	10/21/2019 10:25	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 10:25	WG1366365
Vinyl acetate	U UJ	J0	0.645	5.00	1	10/21/2019 10:25	WG1366365
Vinyl chloride	U		0.118	0.500	1	10/21/2019 10:25	WG1366365
Xylenes, Total	U		0.316	1.50	1	10/21/2019 10:25	WG1366365
(S) Toluene-d8	*94.1*			*80.0-120*		*10/21/2019 10:25*	WG1366365
(S) 4-Bromofluorobenzene	*91.6*			*77.0-126*		*10/21/2019 10:25*	WG1366365
(S) 1,2-Dichloroethane-d4	*84.4*			*70.0-130*		*10/21/2019 10:25*	WG1366365

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	1220000		6780	50000	2.5	10/19/2019 17:30	WG1365100

Sample Narrative:

L1149387-07 WG1365100: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	10900		51.9	1000	1	10/12/2019 20:07	WG1361957
Nitrate	U		22.7	100	1	10/12/2019 20:07	WG1361957
Sulfate	5710	~~B~~	77.4	5000	1	10/12/2019 20:07	WG1361957

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14700		102	1000	1	10/16/2019 21:13	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5180		15.0	100	1	10/18/2019 13:30	WG1364591
Manganese	845		0.250	5.00	1	10/18/2019 13:30	WG1364591

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	768		0.287	0.678	1	10/16/2019 13:02	WG1363432
Ethane	U		0.296	1.29	1	10/16/2019 13:02	WG1363432
Ethene	U		0.422	1.27	1	10/16/2019 13:02	WG1363432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.53 J	J J0	1.05	25.0	1	10/21/2019 10:45	WG1366365
Acrylonitrile	U UJ	J0	0.873	5.00	1	10/21/2019 10:45	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 10:45	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 10:45	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 10:45	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 10:45	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 10:45	WG1366365
Bromomethane	U UJ	J0	0.157	2.50	1	10/21/2019 10:45	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 10:45	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 10:45	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 10:45	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 10:45	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 10:45	WG1366365
Chlorobenzene	U		0.140	0.500	1	10/21/2019 10:45	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 10:45	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 10:45	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 10:45	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 10:45	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 10:45	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 10:45	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 10:45	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 10:45	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 10:45	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 10:45	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 10:45	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 10:45	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 10:45	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 10:45	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 10:45	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 10:45	WG1366365
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/21/2019 10:45	WG1366365
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 10:45	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 10:45	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 10:45	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 10:45	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 10:45	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 10:45	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 10:45	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 10:45	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 10:45	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 10:45	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 10:45	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 10:45	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 10:45	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 10:45	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 10:45	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 10:45	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 10:45	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 10:45	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 10:45	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 10:45	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 10:45	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 10:45	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 10:45	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 10:45	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 10:45	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 10:45	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 10:45	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 10:45	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 10:45	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 10:45	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 10:45	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 10:45	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 10:45	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 10:45	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 10:45	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 10:45	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 10:45	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 10:45	WG1366365
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/21/2019 10:45	WG1366365
Vinyl chloride	U		0.118	0.500	1	10/21/2019 10:45	WG1366365
Xylenes, Total	U		0.316	1.50	1	10/21/2019 10:45	WG1366365
(S) Toluene-d8	*98.6*			*80.0-120*		*10/21/2019 10:45*	WG1366365
(S) 4-Bromofluorobenzene	*94.4*			*77.0-126*		*10/21/2019 10:45*	WG1366365
(S) 1,2-Dichloroethane-d4	*86.6*			*70.0-130*		*10/21/2019 10:45*	WG1366365

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	901000		6780	50000	2.5	10/19/2019 17:37	WG1365100

Sample Narrative:

L1149387-08 WG1365100: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	15400		51.9	1000	1	10/12/2019 20:23	WG1361957
Nitrate	U		22.7	100	1	10/12/2019 20:23	WG1361957
Sulfate	95400		77.4	5000	1	10/12/2019 20:23	WG1361957

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6970		102	1000	1	10/16/2019 21:34	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	16900		15.0	100	1	10/18/2019 13:34	WG1364591
Manganese	2950		0.250	5.00	1	10/18/2019 13:34	WG1364591

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2070		0.287	0.678	1	10/16/2019 13:05	WG1363432
Ethane	19.7		0.296	1.29	1	10/16/2019 13:05	WG1363432
Ethene	U		0.422	1.27	1	10/16/2019 13:05	WG1363432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.27	J	J J0	1.05	25.0	1	10/21/2019 11:04	WG1366365
Acrylonitrile	U	UJ	J0	0.873	5.00	1	10/21/2019 11:04	WG1366365
Benzene	12.5			0.0896	0.500	1	10/21/2019 11:04	WG1366365
Bromobenzene	U			0.133	0.500	1	10/21/2019 11:04	WG1366365
Bromodichloromethane	U			0.0800	0.500	1	10/21/2019 11:04	WG1366365
Bromochloromethane	U			0.145	0.500	1	10/21/2019 11:04	WG1366365
Bromoform	U			0.186	0.500	1	10/21/2019 11:04	WG1366365
Bromomethane	U	UJ	J0	0.157	2.50	1	10/21/2019 11:04	WG1366365
n-Butylbenzene	U			0.143	0.500	1	10/21/2019 11:04	WG1366365
sec-Butylbenzene	U			0.134	0.500	1	10/21/2019 11:04	WG1366365
tert-Butylbenzene	U			0.183	0.500	1	10/21/2019 11:04	WG1366365
Carbon disulfide	U			0.101	0.500	1	10/21/2019 11:04	WG1366365
Carbon tetrachloride	U			0.159	0.500	1	10/21/2019 11:04	WG1366365
Chlorobenzene	U			0.140	0.500	1	10/21/2019 11:04	WG1366365
Chlorodibromomethane	U			0.128	0.500	1	10/21/2019 11:04	WG1366365
Chloroethane	U			0.141	2.50	1	10/21/2019 11:04	WG1366365
Chloroform	U			0.0860	0.500	1	10/21/2019 11:04	WG1366365
Chloromethane	U			0.153	1.25	1	10/21/2019 11:04	WG1366365
2-Chlorotoluene	U			0.111	0.500	1	10/21/2019 11:04	WG1366365
4-Chlorotoluene	U			0.0972	0.500	1	10/21/2019 11:04	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 11:04	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 11:04	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 11:04	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 11:04	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 11:04	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 11:04	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 11:04	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 11:04	WG1366365
1,2-Dichloroethane	0.133	J	0.108	0.500	1	10/21/2019 11:04	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 11:04	WG1366365
cis-1,2-Dichloroethene	38.9		0.0933	0.500	1	10/21/2019 11:04	WG1366365
trans-1,2-Dichloroethene	0.492	J	0.152	0.500	1	10/21/2019 11:04	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 11:04	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 11:04	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 11:04	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 11:04	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 11:04	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 11:04	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 11:04	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 11:04	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 11:04	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 11:04	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 11:04	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 11:04	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 11:04	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 11:04	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 11:04	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 11:04	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 11:04	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 11:04	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 11:04	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 11:04	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 11:04	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 11:04	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 11:04	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 11:04	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 11:04	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 11:04	WG1366365
Toluene	4.38		0.412	0.500	1	10/21/2019 11:04	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 11:04	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 11:04	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 11:04	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 11:04	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 11:04	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 11:04	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 11:04	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 11:04	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 11:04	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 11:04	WG1366365
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/21/2019 11:04	WG1366365
Vinyl chloride	20.3		0.118	0.500	1	10/21/2019 11:04	WG1366365
Xylenes, Total	U		0.316	1.50	1	10/21/2019 11:04	WG1366365
(S) Toluene-d8	*95.8*			*80.0-120*		*10/21/2019 11:04*	WG1366365
(S) 4-Bromofluorobenzene	*91.9*			*77.0-126*		*10/21/2019 11:04*	WG1366365
(S) 1,2-Dichloroethane-d4	*85.9*			*70.0-130*		*10/21/2019 11:04*	WG1366365

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	172000		2710	20000	1	10/18/2019 11:14	WG1365104

Sample Narrative:

L1149851-01 WG1365104: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	12800		51.9	1000	1	10/15/2019 22:42	WG1363086
Nitrate	U		22.7	100	1	10/15/2019 22:42	WG1363086
Sulfate	20300		77.4	5000	1	10/15/2019 22:42	WG1363086

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	10300		102	1000	1	10/17/2019 03:19	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1850		15.0	100	1	10/21/2019 11:10	WG1364629
Manganese	406		0.250	5.00	1	10/21/2019 11:10	WG1364629

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/18/2019 04:37	WG1364938
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/18/2019 04:37*	WG1364938

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	428		0.287	0.678	1	10/16/2019 13:10	WG1363432
Ethane	6.87		0.296	1.29	1	10/16/2019 13:10	WG1363432
Ethene	U		0.422	1.27	1	10/16/2019 13:10	WG1363432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/21/2019 11:44	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 11:44	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 11:44	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 11:44	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 11:44	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 11:44	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 11:44	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 11:44	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 11:44	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 11:44	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 11:44	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 11:44	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 11:44	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/21/2019 11:44	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 11:44	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 11:44	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 11:44	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 11:44	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 11:44	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 11:44	WG1366365
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 11:44	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 11:44	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 11:44	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 11:44	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 11:44	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 11:44	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 11:44	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 11:44	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 11:44	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 11:44	WG1366365
cis-1,2-Dichloroethene	7.78		0.0933	0.500	1	10/21/2019 11:44	WG1366365
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 11:44	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 11:44	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 11:44	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 11:44	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 11:44	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 11:44	WG1366365
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/21/2019 11:44	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 11:44	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 11:44	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 11:44	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 11:44	WG1366365
2-Hexanone	U UJ	J0	0.757	5.00	1	10/21/2019 11:44	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 11:44	WG1366365
Iodomethane	U UJ	J0	0.377	10.0	1	10/21/2019 11:44	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 11:44	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 11:44	WG1366365
2-Butanone (MEK)	U UJ	J0	1.28	5.00	1	10/21/2019 11:44	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 11:44	WG1366365
4-Methyl-2-pentanone (MIBK)	U UJ	J0	0.823	5.00	1	10/21/2019 11:44	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 11:44	WG1366365
Naphthalene	U UJ	J0	0.174	2.50	1	10/21/2019 11:44	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 11:44	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 11:44	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 11:44	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 11:44	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 11:44	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 11:44	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 11:44	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 11:44	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 11:44	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 11:44	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 11:44	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 11:44	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 11:44	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 11:44	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 11:44	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 11:44	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 11:44	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	10/21/2019 11:44	WG1366365
Vinyl chloride	0.994			0.118	0.500	1	10/21/2019 11:44	WG1366365
Xylenes, Total	U			0.316	1.50	1	10/21/2019 11:44	WG1366365
(S) Toluene-d8	*96.6*				*80.0-120*		*10/21/2019 11:44*	WG1366365
(S) 4-Bromofluorobenzene	*94.2*				*77.0-126*		*10/21/2019 11:44*	WG1366365
(S) 1,2-Dichloroethane-d4	*85.9*				*70.0-130*		*10/21/2019 11:44*	WG1366365

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	338000		2710	20000	1	10/18/2019 11:22	WG1365104

Sample Narrative:

L1149851-02 WG1365104: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	23300		51.9	1000	1	10/15/2019 22:56	WG1363086
Nitrate	U		22.7	100	1	10/15/2019 22:56	WG1363086
Sulfate	20600		77.4	5000	1	10/15/2019 22:56	WG1363086

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3630	~~B~~	102	1000	1	10/17/2019 03:41	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2910		15.0	100	1	10/21/2019 11:25	WG1364629
Manganese	898		0.250	5.00	1	10/21/2019 11:25	WG1364629

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1310		31.6	100	1	10/18/2019 05:01	WG1364938
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/18/2019 05:01*	WG1364938

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	6190		0.287	0.678	1	10/16/2019 13:15	WG1363432
Ethane	U		0.296	1.29	1	10/16/2019 13:15	WG1363432
Ethene	394		0.422	1.27	1	10/16/2019 13:15	WG1363432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/21/2019 12:03	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 12:03	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 12:03	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 12:03	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 12:03	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 12:03	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 12:03	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 12:03	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 12:03	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 12:03	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 12:03	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 12:03	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 12:03	WG1366365

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/21/2019 12:03	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 12:03	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 12:03	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 12:03	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 12:03	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 12:03	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 12:03	WG1366365
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 12:03	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 12:03	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 12:03	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 12:03	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 12:03	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 12:03	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 12:03	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 12:03	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 12:03	WG1366365
1,1-Dichloroethene	2.83		0.188	0.500	1	10/21/2019 12:03	WG1366365
cis-1,2-Dichloroethene	1350		9.33	50.0	100	10/23/2019 01:49	WG1367719
trans-1,2-Dichloroethene	7.85		0.152	0.500	1	10/21/2019 12:03	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 12:03	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 12:03	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 12:03	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 12:03	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 12:03	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 12:03	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 12:03	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 12:03	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 12:03	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 12:03	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 12:03	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 12:03	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 12:03	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 12:03	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 12:03	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 12:03	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 12:03	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 12:03	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 12:03	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 12:03	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 12:03	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 12:03	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 12:03	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 12:03	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 12:03	WG1366365
Tetrachloroethene	2.03		0.199	0.500	1	10/21/2019 12:03	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 12:03	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 12:03	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 12:03	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 12:03	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 12:03	WG1366365
Trichloroethene	6.77		0.153	0.500	1	10/21/2019 12:03	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 12:03	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 12:03	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 12:03	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 12:03	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 12:03	WG1366365

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	10/21/2019 12:03	WG1366365
Vinyl chloride	2830			11.8	50.0	100	10/23/2019 01:49	WG1367719
Xylenes, Total	U			0.316	1.50	1	10/21/2019 12:03	WG1366365
(S) Toluene-d8	*94.4*				*80.0-120*		*10/21/2019 12:03*	WG1366365
(S) Toluene-d8	*96.6*				*80.0-120*		*10/23/2019 01:49*	WG1367719
(S) 4-Bromofluorobenzene	*92.3*				*77.0-126*		*10/21/2019 12:03*	WG1366365
(S) 4-Bromofluorobenzene	*107*				*77.0-126*		*10/23/2019 01:49*	WG1367719
(S) 1,2-Dichloroethane-d4	*81.9*				*70.0-130*		*10/21/2019 12:03*	WG1366365
(S) 1,2-Dichloroethane-d4	*103*				*70.0-130*		*10/23/2019 01:49*	WG1367719

JC 12/2/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	228000		2710	20000	1	10/18/2019 11:37	WG1365104

Sample Narrative:

L1149851-03 WG1365104: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	15100		51.9	1000	1	10/15/2019 23:54	WG1363086
Nitrate	U		22.7	100	1	10/15/2019 23:54	WG1363086
Sulfate	86500		77.4	5000	1	10/15/2019 23:54	WG1363086

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2950	~~B~~	102	1000	1	10/17/2019 03:58	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	511		15.0	100	1	10/21/2019 11:29	WG1364629
Manganese	435		0.250	5.00	1	10/21/2019 11:29	WG1364629

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	105		0.287	0.678	1	10/16/2019 13:25	WG1363432
Ethane	U		0.296	1.29	1	10/16/2019 13:25	WG1363432
Ethene	U		0.422	1.27	1	10/16/2019 13:25	WG1363432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/21/2019 12:23	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 12:23	WG1366365
Benzene	0.295	J	0.0896	0.500	1	10/21/2019 12:23	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 12:23	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 12:23	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 12:23	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 12:23	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 12:23	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 12:23	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 12:23	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 12:23	WG1366365
Carbon disulfide	5.84		0.101	0.500	1	10/21/2019 12:23	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 12:23	WG1366365
Chlorobenzene	U		0.140	0.500	1	10/21/2019 12:23	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 12:23	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 12:23	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 12:23	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 12:23	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 12:23	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 12:23	WG1366365

JC 12/2/19

MW-309-101419

Collected date/time: 10/14/19 10:35

SAMPLE RESULTS - 03

L1149851

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 12:23	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 12:23	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 12:23	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 12:23	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 12:23	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 12:23	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 12:23	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 12:23	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 12:23	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 12:23	WG1366365
cis-1,2-Dichloroethene	1.47		0.0933	0.500	1	10/23/2019 02:10	WG1367719
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 12:23	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 12:23	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 12:23	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 12:23	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 12:23	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 12:23	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 12:23	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 12:23	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 12:23	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 12:23	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 12:23	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 12:23	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 12:23	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 12:23	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 12:23	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 12:23	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 12:23	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 12:23	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 12:23	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 12:23	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 12:23	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 12:23	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 12:23	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 12:23	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 12:23	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 12:23	WG1366365
Tetrachloroethene	1.11		0.199	0.500	1	10/21/2019 12:23	WG1366365
Toluene	2.01		0.412	0.500	1	10/21/2019 12:23	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 12:23	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 12:23	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 12:23	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 12:23	WG1366365
Trichloroethene	0.497	J	0.153	0.500	1	10/21/2019 12:23	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 12:23	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 12:23	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 12:23	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 12:23	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 12:23	WG1366365
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/21/2019 12:23	WG1366365
Vinyl chloride	6.37		0.118	0.500	1	10/23/2019 02:10	WG1367719
Xylenes, Total	U		0.316	1.50	1	10/21/2019 12:23	WG1366365
(S) Toluene-d8	*99.9*			*80.0-120*		*10/21/2019 12:23*	WG1366365
(S) Toluene-d8	*96.5*			*80.0-120*		*10/23/2019 02:10*	WG1367719
(S) 4-Bromofluorobenzene	*95.2*			*77.0-126*		*10/21/2019 12:23*	WG1366365
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/23/2019 02:10*	WG1367719

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*84.3*			*70.0-130*		*10/21/2019 12:23*	WG1366365
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*10/23/2019 02:10*	WG1367719

JC 12/2/19

MW-189-101419

Collected date/time: 10/14/19 11:30

SAMPLE RESULTS - 04

L1149851

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	197000		2710	20000	1	10/18/2019 11:44	WG1365104

Sample Narrative:

L1149851-04 WG1365104: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	17100		51.9	1000	1	10/16/2019 00:08	WG1363086
Nitrate	U		22.7	100	1	10/16/2019 00:08	WG1363086
Sulfate	37200		77.4	5000	1	10/16/2019 00:08	WG1363086

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3780	~~B~~	102	1000	1	10/17/2019 04:56	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1330		15.0	100	1	10/21/2019 11:32	WG1364629
Manganese	838		0.250	5.00	1	10/21/2019 11:32	WG1364629

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/18/2019 05:24	WG1364938
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/18/2019 05:24*	WG1364938

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	203		0.287	0.678	1	10/16/2019 13:27	WG1363432
Ethane	U		0.296	1.29	1	10/16/2019 13:27	WG1363432
Ethene	69.9		0.422	1.27	1	10/16/2019 13:27	WG1363432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/21/2019 12:43	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 12:43	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 12:43	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 12:43	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 12:43	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 12:43	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 12:43	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 12:43	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 12:43	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 12:43	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 12:43	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 12:43	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 12:43	WG1366365

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	10/21/2019 12:43	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 12:43	WG1366365
Chloroethane	0.362	J	0.141	2.50	1	10/21/2019 12:43	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 12:43	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 12:43	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 12:43	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 12:43	WG1366365
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 12:43	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 12:43	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 12:43	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 12:43	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 12:43	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 12:43	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 12:43	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 12:43	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 12:43	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 12:43	WG1366365
cis-1,2-Dichloroethene	2.23		0.0933	0.500	1	10/23/2019 02:30	WG1367719
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 12:43	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 12:43	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 12:43	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 12:43	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 12:43	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 12:43	WG1366365
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/21/2019 12:43	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 12:43	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 12:43	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 12:43	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 12:43	WG1366365
2-Hexanone	U UJ	J0	0.757	5.00	1	10/21/2019 12:43	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 12:43	WG1366365
Iodomethane	U UJ	J0	0.377	10.0	1	10/21/2019 12:43	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 12:43	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 12:43	WG1366365
2-Butanone (MEK)	U UJ	J0	1.28	5.00	1	10/21/2019 12:43	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 12:43	WG1366365
4-Methyl-2-pentanone (MIBK)	U UJ	J0	0.823	5.00	1	10/21/2019 12:43	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 12:43	WG1366365
Naphthalene	U UJ	J0	0.174	2.50	1	10/21/2019 12:43	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 12:43	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 12:43	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 12:43	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 12:43	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 12:43	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 12:43	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 12:43	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 12:43	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 12:43	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 12:43	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 12:43	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 12:43	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 12:43	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 12:43	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 12:43	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 12:43	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 12:43	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/21/2019 12:43	WG1366365
Vinyl chloride	18.2		0.118	0.500	1	10/23/2019 02:30	WG1367719
Xylenes, Total	U		0.316	1.50	1	10/21/2019 12:43	WG1366365
(S) Toluene-d8	*96.3*			*80.0-120*		*10/21/2019 12:43*	WG1366365
(S) Toluene-d8	*95.3*			*80.0-120*		*10/23/2019 02:30*	WG1367719
(S) 4-Bromofluorobenzene	*91.4*			*77.0-126*		*10/21/2019 12:43*	WG1366365
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/23/2019 02:30*	WG1367719
(S) 1,2-Dichloroethane-d4	*83.1*			*70.0-130*		*10/21/2019 12:43*	WG1366365
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*10/23/2019 02:30*	WG1367719

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	186000		2710	20000	1	10/18/2019 11:52	WG1365104

Sample Narrative:

L1149851-05 WG1365104: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	18400		51.9	1000	1	10/16/2019 00:23	WG1363086
Nitrate	1580		22.7	100	1	10/16/2019 00:23	WG1363086
Sulfate	87800		77.4	5000	1	10/16/2019 00:23	WG1363086

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1920	~~B~~	102	1000	1	10/17/2019 05:16	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	173		15.0	100	1	10/21/2019 11:58	WG1364629
Manganese	129		0.250	5.00	1	10/21/2019 11:58	WG1364629

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/18/2019 05:48	WG1364938
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/18/2019 05:48*	WG1364938

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	10/17/2019 11:11	WG1364418
Ethane	U		0.296	1.29	1	10/17/2019 11:11	WG1364418
Ethene	U		0.422	1.27	1	10/17/2019 11:11	WG1364418

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/21/2019 13:02	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 13:02	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 13:02	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 13:02	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 13:02	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 13:02	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 13:02	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 13:02	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 13:02	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 13:02	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 13:02	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 13:02	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 13:02	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/21/2019 13:02	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 13:02	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 13:02	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 13:02	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 13:02	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 13:02	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 13:02	WG1366365
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 13:02	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 13:02	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 13:02	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 13:02	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 13:02	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 13:02	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 13:02	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 13:02	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 13:02	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 13:02	WG1366365
cis-1,2-Dichloroethene	1.40		0.0933	0.500	1	10/23/2019 02:50	WG1367719
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 13:02	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 13:02	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 13:02	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 13:02	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 13:02	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 13:02	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 13:02	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 13:02	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 13:02	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 13:02	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 13:02	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 13:02	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 13:02	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 13:02	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 13:02	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 13:02	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 13:02	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 13:02	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 13:02	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 13:02	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 13:02	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 13:02	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 13:02	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 13:02	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 13:02	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 13:02	WG1366365
Tetrachloroethene	4.99		0.199	0.500	1	10/21/2019 13:02	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 13:02	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 13:02	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 13:02	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 13:02	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 13:02	WG1366365
Trichloroethene	0.445	J	0.153	0.500	1	10/21/2019 13:02	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 13:02	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 13:02	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 13:02	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 13:02	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 13:02	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	10/21/2019 13:02	WG1366365
Vinyl chloride	U			0.118	0.500	1	10/23/2019 02:50	WG1367719
Xylenes, Total	U			0.316	1.50	1	10/21/2019 13:02	WG1366365
(S) Toluene-d8	*95.1*				*80.0-120*		*10/21/2019 13:02*	WG1366365
(S) Toluene-d8	*97.5*				*80.0-120*		*10/23/2019 02:50*	WG1367719
(S) 4-Bromofluorobenzene	*91.0*				*77.0-126*		*10/21/2019 13:02*	WG1366365
(S) 4-Bromofluorobenzene	*105*				*77.0-126*		*10/23/2019 02:50*	WG1367719
(S) 1,2-Dichloroethane-d4	*83.6*				*70.0-130*		*10/21/2019 13:02*	WG1366365
(S) 1,2-Dichloroethane-d4	*103*				*70.0-130*		*10/23/2019 02:50*	WG1367719

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	182000		2710	20000	1	10/18/2019 11:59	WG1365104

Sample Narrative:

L1149851-06 WG1365104: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	7800		51.9	1000	1	10/15/2019 16:07	WG1363090
Nitrate	58.4	J	22.7	100	1	10/15/2019 16:07	WG1363090
Sulfate	5820		77.4	5000	1	10/15/2019 16:07	WG1363090

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1190	~~B~~	102	1000	1	10/17/2019 05:34	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	348		15.0	100	1	10/21/2019 12:02	WG1364629
Manganese	212		0.250	5.00	1	10/21/2019 12:02	WG1364629

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	10/17/2019 11:14	WG1364418
Ethane	U		0.296	1.29	1	10/17/2019 11:14	WG1364418
Ethene	U		0.422	1.27	1	10/17/2019 11:14	WG1364418

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/21/2019 13:22	WG1366365
Acrylonitrile	U UJ	J0	0.873	5.00	1	10/21/2019 13:22	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 13:22	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 13:22	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 13:22	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 13:22	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 13:22	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 13:22	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 13:22	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 13:22	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 13:22	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 13:22	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 13:22	WG1366365
Chlorobenzene	U		0.140	0.500	1	10/21/2019 13:22	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 13:22	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 13:22	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 13:22	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 13:22	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 13:22	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 13:22	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 13:22	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 13:22	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 13:22	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 13:22	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 13:22	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 13:22	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 13:22	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 13:22	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 13:22	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 13:22	WG1366365
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/23/2019 03:11	WG1367719
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 13:22	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 13:22	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 13:22	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 13:22	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 13:22	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 13:22	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 13:22	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 13:22	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 13:22	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 13:22	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 13:22	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 13:22	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 13:22	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 13:22	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 13:22	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 13:22	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 13:22	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 13:22	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 13:22	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 13:22	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 13:22	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 13:22	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 13:22	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 13:22	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 13:22	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 13:22	WG1366365
Tetrachloroethene	0.223	J	0.199	0.500	1	10/21/2019 13:22	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 13:22	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 13:22	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 13:22	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 13:22	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 13:22	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 13:22	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 13:22	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 13:22	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 13:22	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 13:22	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 13:22	WG1366365
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/21/2019 13:22	WG1366365
Vinyl chloride	U		0.118	0.500	1	10/23/2019 03:11	WG1367719
Xylenes, Total	U		0.316	1.50	1	10/21/2019 13:22	WG1366365
(S) Toluene-d8	*99.6*			*80.0-120*		*10/21/2019 13:22*	WG1366365
(S) Toluene-d8	*95.7*			*80.0-120*		*10/23/2019 03:11*	WG1367719
(S) 4-Bromofluorobenzene	*93.7*			*77.0-126*		*10/21/2019 13:22*	WG1366365
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*10/23/2019 03:11*	WG1367719

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*83.3*			*70.0-130*		*10/21/2019 13:22*	WG1366365
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/23/2019 03:11*	WG1367719

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	222000		2710	20000	1	10/18/2019 12:06	WG1365104

Sample Narrative:

L1149851-07 WG1365104: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	29100		51.9	1000	1	10/15/2019 16:33	WG1363090
Nitrate	U		22.7	100	1	10/15/2019 16:33	WG1363090
Sulfate	7700		77.4	5000	1	10/15/2019 16:33	WG1363090

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1970	~~B~~	102	1000	1	10/17/2019 05:51	WG1364227

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	159		15.0	100	1	10/21/2019 12:05	WG1364629
Manganese	229		0.250	5.00	1	10/21/2019 12:05	WG1364629

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	324		0.287	0.678	1	10/17/2019 11:17	WG1364418
Ethane	20.9		0.296	1.29	1	10/17/2019 11:17	WG1364418
Ethene	20.1		0.422	1.27	1	10/17/2019 11:17	WG1364418

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.25	U J J0	1.05	25.0	1	10/21/2019 13:41	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 13:41	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 13:41	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 13:41	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 13:41	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 13:41	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 13:41	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 13:41	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 13:41	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 13:41	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 13:41	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 13:41	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 13:41	WG1366365
Chlorobenzene	U		0.140	0.500	1	10/21/2019 13:41	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 13:41	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 13:41	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 13:41	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 13:41	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 13:41	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 13:41	WG1366365

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 13:41	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 13:41	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 13:41	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 13:41	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 13:41	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 13:41	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 13:41	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 13:41	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 13:41	WG1366365
1,1-Dichloroethene	U		0.188	0.500	1	10/21/2019 13:41	WG1366365
cis-1,2-Dichloroethene	0.413 J	J	0.0933	0.500	1	10/23/2019 03:31	WG1367719
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 13:41	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 13:41	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 13:41	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 13:41	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 13:41	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 13:41	WG1366365
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/21/2019 13:41	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 13:41	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 13:41	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 13:41	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 13:41	WG1366365
2-Hexanone	U UJ	J0	0.757	5.00	1	10/21/2019 13:41	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 13:41	WG1366365
Iodomethane	U UJ	J0	0.377	10.0	1	10/21/2019 13:41	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 13:41	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 13:41	WG1366365
2-Butanone (MEK)	U UJ	J0	1.28	5.00	1	10/21/2019 13:41	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 13:41	WG1366365
4-Methyl-2-pentanone (MIBK)	U UJ	J0	0.823	5.00	1	10/21/2019 13:41	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 13:41	WG1366365
Naphthalene	U UJ	J0	0.174	2.50	1	10/21/2019 13:41	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 13:41	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 13:41	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 13:41	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 13:41	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 13:41	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 13:41	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 13:41	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 13:41	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 13:41	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 13:41	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 13:41	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 13:41	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 13:41	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 13:41	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 13:41	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 13:41	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 13:41	WG1366365
Vinyl acetate	U UJ	J0	0.645	5.00	1	10/21/2019 13:41	WG1366365
Vinyl chloride	8.63		0.118	0.500	1	10/23/2019 03:31	WG1367719
Xylenes, Total	U		0.316	1.50	1	10/21/2019 13:41	WG1366365
(S) Toluene-d8	*97.1*			*80.0-120*		*10/21/2019 13:41*	WG1366365
(S) Toluene-d8	*94.2*			*80.0-120*		*10/23/2019 03:31*	WG1367719
(S) 4-Bromofluorobenzene	*90.6*			*77.0-126*		*10/21/2019 13:41*	WG1366365
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*10/23/2019 03:31*	WG1367719

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*81.7*			*70.0-130*		*10/21/2019 13:41*	WG1366365
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/23/2019 03:31*	WG1367719

JC 12/2/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	339000		2710	20000	1	10/18/2019 12:13	WG1365104

Sample Narrative:

L1149851-08 WG1365104: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	23200		51.9	1000	1	10/15/2019 17:38	WG1363090
Nitrate	U		22.7	100	1	10/15/2019 17:38	WG1363090
Sulfate	28000		77.4	5000	1	10/15/2019 17:38	WG1363090

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6700	~~B~~	510	5000	5	10/17/2019 16:35	WG1364260

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	9370		15.0	100	1	10/21/2019 12:09	WG1364629
Manganese	919		0.250	5.00	1	10/21/2019 12:09	WG1364629

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	513		31.6	100	1	10/18/2019 06:12	WG1364938
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/18/2019 06:12*	WG1364938

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	7830		2.87	6.78	10	10/18/2019 13:08	WG1365165
Ethane	2.94		0.296	1.29	1	10/17/2019 11:26	WG1364418
Ethene	457		0.422	1.27	1	10/17/2019 11:26	WG1364418

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/21/2019 14:01	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 14:01	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 14:01	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 14:01	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 14:01	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 14:01	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 14:01	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 14:01	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 14:01	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 14:01	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 14:01	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 14:01	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 14:01	WG1366365

JC 12/2/19

MW-147-101419

Collected date/time: 10/14/19 13:55

SAMPLE RESULTS - 08

L1149851

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/21/2019 14:01	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 14:01	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 14:01	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 14:01	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 14:01	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 14:01	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 14:01	WG1366365
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 14:01	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 14:01	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 14:01	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 14:01	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 14:01	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 14:01	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 14:01	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 14:01	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 14:01	WG1366365
1,1-Dichloroethene	1.92		0.188	0.500	1	10/21/2019 14:01	WG1366365
cis-1,2-Dichloroethene	597		2.33	12.5	25	10/23/2019 03:51	WG1367719
trans-1,2-Dichloroethene	2.91		0.152	0.500	1	10/21/2019 14:01	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 14:01	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 14:01	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 14:01	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 14:01	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 14:01	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 14:01	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 14:01	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 14:01	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 14:01	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 14:01	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 14:01	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 14:01	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 14:01	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 14:01	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 14:01	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 14:01	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 14:01	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 14:01	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 14:01	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 14:01	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 14:01	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 14:01	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 14:01	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 14:01	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 14:01	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 14:01	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 14:01	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 14:01	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 14:01	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 14:01	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 14:01	WG1366365
Trichloroethene	3.38		0.153	0.500	1	10/21/2019 14:01	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 14:01	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 14:01	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 14:01	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 14:01	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 14:01	WG1366365

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U UJ	J0	0.645	5.00	1	10/21/2019 14:01	WG1366365
Vinyl chloride	1410		2.95	12.5	25	10/23/2019 03:51	WG1367719
Xylenes, Total	U		0.316	1.50	1	10/21/2019 14:01	WG1366365
(S) Toluene-d8	*98.9*			*80.0-120*		*10/21/2019 14:01*	WG1366365
(S) Toluene-d8	*96.4*			*80.0-120*		*10/23/2019 03:51*	WG1367719
(S) 4-Bromofluorobenzene	*95.6*			*77.0-126*		*10/21/2019 14:01*	WG1366365
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/23/2019 03:51*	WG1367719
(S) 1,2-Dichloroethane-d4	*81.8*			*70.0-130*		*10/21/2019 14:01*	WG1366365
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/23/2019 03:51*	WG1367719

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 12/2/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	289000		2710	20000	1	10/18/2019 12:20	WG1365104

Sample Narrative:

L1149851-09 WG1365104: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	26000		51.9	1000	1	10/15/2019 17:51	WG1363090
Nitrate	U		22.7	100	1	10/15/2019 17:51	WG1363090
Sulfate	14400		77.4	5000	1	10/15/2019 17:51	WG1363090

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1280	~~B~~	102	1000	1	10/17/2019 16:53	WG1364260

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1390		15.0	100	1	10/21/2019 12:13	WG1364629
Manganese	737		0.250	5.00	1	10/21/2019 12:13	WG1364629

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	54.7	U ~~BJ~~	31.6	100	1	10/23/2019 02:14	WG1367521
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*10/23/2019 02:14*	WG1367521

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	226		0.287	0.678	1	10/17/2019 13:20	WG1364418
Ethane	U		0.296	1.29	1	10/17/2019 13:20	WG1364418
Ethene	U		0.422	1.27	1	10/17/2019 13:20	WG1364418

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/21/2019 14:21	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 14:21	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 14:21	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 14:21	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 14:21	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 14:21	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 14:21	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 14:21	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 14:21	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 14:21	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 14:21	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 14:21	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 14:21	WG1366365

JC 12/2/19

MW-161-101419 SAMPLE RESULTS - 09

Collected date/time: 10/14/19 14:28
L1149851

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/21/2019 14:21	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 14:21	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 14:21	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 14:21	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 14:21	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 14:21	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 14:21	WG1366365
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 14:21	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 14:21	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 14:21	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 14:21	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 14:21	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 14:21	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 14:21	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 14:21	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 14:21	WG1366365
1,1-Dichloroethene	0.451	J	0.188	0.500	1	10/21/2019 14:21	WG1366365
cis-1,2-Dichloroethene	1.30		0.0933	0.500	1	10/23/2019 04:11	WG1367719
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/21/2019 14:21	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 14:21	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 14:21	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 14:21	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 14:21	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 14:21	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 14:21	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 14:21	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 14:21	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 14:21	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 14:21	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 14:21	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 14:21	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 14:21	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 14:21	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 14:21	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 14:21	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 14:21	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 14:21	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 14:21	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 14:21	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 14:21	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 14:21	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 14:21	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 14:21	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 14:21	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 14:21	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 14:21	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 14:21	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 14:21	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 14:21	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 14:21	WG1366365
Trichloroethene	0.978		0.153	0.500	1	10/21/2019 14:21	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 14:21	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 14:21	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 14:21	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 14:21	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 14:21	WG1366365

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/21/2019 14:21	WG1366365
Vinyl chloride	U		0.118	0.500	1	10/23/2019 04:11	WG1367719
Xylenes, Total	U		0.316	1.50	1	10/21/2019 14:21	WG1366365
(S) Toluene-d8	*97.1*			*80.0-120*		*10/21/2019 14:21*	WG1366365
(S) Toluene-d8	*94.4*			*80.0-120*		*10/23/2019 04:11*	WG1367719
(S) 4-Bromofluorobenzene	*90.8*			*77.0-126*		*10/21/2019 14:21*	WG1366365
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*10/23/2019 04:11*	WG1367719
(S) 1,2-Dichloroethane-d4	*80.7*			*70.0-130*		*10/21/2019 14:21*	WG1366365
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/23/2019 04:11*	WG1367719

JC 12/2/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	302000		2710	20000	1	10/18/2019 12:27	WG1365104

Sample Narrative:

L1149851-10 WG1365104: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	27400		51.9	1000	1	10/15/2019 18:04	WG1363090
Nitrate	U		22.7	100	1	10/15/2019 18:04	WG1363090
Sulfate	25000		77.4	5000	1	10/15/2019 18:04	WG1363090

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1550	~~B~~	102	1000	1	10/17/2019 17:20	WG1364260

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	948		15.0	100	1	10/21/2019 12:16	WG1364629
Manganese	870		0.250	5.00	1	10/21/2019 12:16	WG1364629

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	166		0.287	0.678	1	10/17/2019 13:23	WG1364418
Ethane	17.7		0.296	1.29	1	10/17/2019 13:23	WG1364418
Ethene	13.8		0.422	1.27	1	10/17/2019 13:23	WG1364418

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/21/2019 14:40	WG1366365
Acrylonitrile	U	UJ J0	0.873	5.00	1	10/21/2019 14:40	WG1366365
Benzene	U		0.0896	0.500	1	10/21/2019 14:40	WG1366365
Bromobenzene	U		0.133	0.500	1	10/21/2019 14:40	WG1366365
Bromodichloromethane	U		0.0800	0.500	1	10/21/2019 14:40	WG1366365
Bromochloromethane	U		0.145	0.500	1	10/21/2019 14:40	WG1366365
Bromoform	U		0.186	0.500	1	10/21/2019 14:40	WG1366365
Bromomethane	U	UJ J0	0.157	2.50	1	10/21/2019 14:40	WG1366365
n-Butylbenzene	U		0.143	0.500	1	10/21/2019 14:40	WG1366365
sec-Butylbenzene	U		0.134	0.500	1	10/21/2019 14:40	WG1366365
tert-Butylbenzene	U		0.183	0.500	1	10/21/2019 14:40	WG1366365
Carbon disulfide	U		0.101	0.500	1	10/21/2019 14:40	WG1366365
Carbon tetrachloride	U		0.159	0.500	1	10/21/2019 14:40	WG1366365
Chlorobenzene	U		0.140	0.500	1	10/21/2019 14:40	WG1366365
Chlorodibromomethane	U		0.128	0.500	1	10/21/2019 14:40	WG1366365
Chloroethane	U		0.141	2.50	1	10/21/2019 14:40	WG1366365
Chloroform	U		0.0860	0.500	1	10/21/2019 14:40	WG1366365
Chloromethane	U		0.153	1.25	1	10/21/2019 14:40	WG1366365
2-Chlorotoluene	U		0.111	0.500	1	10/21/2019 14:40	WG1366365
4-Chlorotoluene	U		0.0972	0.500	1	10/21/2019 14:40	WG1366365

JC 12/2/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/21/2019 14:40	WG1366365
1,2-Dibromoethane	U		0.193	0.500	1	10/21/2019 14:40	WG1366365
Dibromomethane	U		0.117	0.500	1	10/21/2019 14:40	WG1366365
1,2-Dichlorobenzene	U		0.101	0.500	1	10/21/2019 14:40	WG1366365
1,3-Dichlorobenzene	U		0.130	0.500	1	10/21/2019 14:40	WG1366365
1,4-Dichlorobenzene	U		0.121	0.500	1	10/21/2019 14:40	WG1366365
Dichlorodifluoromethane	U		0.127	2.50	1	10/21/2019 14:40	WG1366365
1,1-Dichloroethane	U		0.114	0.500	1	10/21/2019 14:40	WG1366365
1,2-Dichloroethane	U		0.108	0.500	1	10/21/2019 14:40	WG1366365
1,1-Dichloroethene	1.08		0.188	0.500	1	10/21/2019 14:40	WG1366365
cis-1,2-Dichloroethene	91.7		0.0933	0.500	1	10/21/2019 14:40	WG1366365
trans-1,2-Dichloroethene	0.158	J	0.152	0.500	1	10/21/2019 14:40	WG1366365
1,2-Dichloropropane	U		0.190	0.500	1	10/21/2019 14:40	WG1366365
1,1-Dichloropropene	U		0.128	0.500	1	10/21/2019 14:40	WG1366365
1,3-Dichloropropane	U		0.147	1.00	1	10/21/2019 14:40	WG1366365
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/21/2019 14:40	WG1366365
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/21/2019 14:40	WG1366365
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/21/2019 14:40	WG1366365
2,2-Dichloropropane	U		0.0929	0.500	1	10/21/2019 14:40	WG1366365
Di-isopropyl ether	U		0.0924	0.500	1	10/21/2019 14:40	WG1366365
Ethylbenzene	U		0.158	0.500	1	10/21/2019 14:40	WG1366365
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/21/2019 14:40	WG1366365
2-Hexanone	U	UJ J0	0.757	5.00	1	10/21/2019 14:40	WG1366365
n-Hexane	U		0.305	5.00	1	10/21/2019 14:40	WG1366365
Iodomethane	U	UJ J0	0.377	10.0	1	10/21/2019 14:40	WG1366365
Isopropylbenzene	U		0.126	0.500	1	10/21/2019 14:40	WG1366365
p-Isopropyltoluene	U		0.138	0.500	1	10/21/2019 14:40	WG1366365
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/21/2019 14:40	WG1366365
Methylene Chloride	U		1.07	2.50	1	10/21/2019 14:40	WG1366365
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/21/2019 14:40	WG1366365
Methyl tert-butyl ether	U		0.102	0.500	1	10/21/2019 14:40	WG1366365
Naphthalene	U	UJ J0	0.174	2.50	1	10/21/2019 14:40	WG1366365
n-Propylbenzene	U		0.162	0.500	1	10/21/2019 14:40	WG1366365
Styrene	U		0.117	0.500	1	10/21/2019 14:40	WG1366365
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/21/2019 14:40	WG1366365
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/21/2019 14:40	WG1366365
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/21/2019 14:40	WG1366365
Tetrachloroethene	U		0.199	0.500	1	10/21/2019 14:40	WG1366365
Toluene	U		0.412	0.500	1	10/21/2019 14:40	WG1366365
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/21/2019 14:40	WG1366365
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/21/2019 14:40	WG1366365
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/21/2019 14:40	WG1366365
1,1,2-Trichloroethane	U		0.186	0.500	1	10/21/2019 14:40	WG1366365
Trichloroethene	U		0.153	0.500	1	10/21/2019 14:40	WG1366365
Trichlorofluoromethane	U		0.130	2.50	1	10/21/2019 14:40	WG1366365
1,2,3-Trichloropropane	U		0.247	2.50	1	10/21/2019 14:40	WG1366365
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/21/2019 14:40	WG1366365
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/21/2019 14:40	WG1366365
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/21/2019 14:40	WG1366365
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/21/2019 14:40	WG1366365
Vinyl chloride	51.8		0.118	0.500	1	10/21/2019 14:40	WG1366365
Xylenes, Total	U		0.316	1.50	1	10/21/2019 14:40	WG1366365
(S) Toluene-d8	*95.4*			*80.0-120*		*10/21/2019 14:40*	WG1366365
(S) 4-Bromofluorobenzene	*89.6*			*77.0-126*		*10/21/2019 14:40*	WG1366365
(S) 1,2-Dichloroethane-d4	*82.6*			*70.0-130*		*10/21/2019 14:40*	WG1366365

JC 12/2/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	200000		2710	20000	1	10/22/2019 05:44	WG1366027

Sample Narrative:

L1150336-01 WG1366027: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	7780		51.9	1000	1	10/16/2019 19:05	WG1363847
Nitrate	U		22.7	100	1	10/16/2019 19:05	WG1363847
Sulfate	3890	J	77.4	5000	1	10/16/2019 19:05	WG1363847

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5050	~~B~~	102	1000	1	10/19/2019 18:45	WG1365601

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	388		15.0	100	1	10/22/2019 14:13	WG1364631
Manganese	327		0.250	5.00	1	10/22/2019 14:13	WG1364631

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	317		0.287	0.678	1	10/17/2019 15:34	WG1364420
Ethane	U		0.296	1.29	1	10/17/2019 15:34	WG1364420
Ethene	U		0.422	1.27	1	10/17/2019 15:34	WG1364420

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.34	J	1.05	25.0	1	10/24/2019 05:08	WG1368527
Acrylonitrile	U		0.873	5.00	1	10/24/2019 05:08	WG1368527
Benzene	U		0.0896	0.500	1	10/24/2019 05:08	WG1368527
Bromobenzene	U		0.133	0.500	1	10/24/2019 05:08	WG1368527
Bromodichloromethane	U		0.0800	0.500	1	10/24/2019 05:08	WG1368527
Bromochloromethane	U		0.145	0.500	1	10/24/2019 05:08	WG1368527
Bromoform	U		0.186	0.500	1	10/24/2019 05:08	WG1368527
Bromomethane	U		0.157	2.50	1	10/24/2019 05:08	WG1368527
n-Butylbenzene	U		0.143	0.500	1	10/24/2019 05:08	WG1368527
sec-Butylbenzene	U		0.134	0.500	1	10/24/2019 05:08	WG1368527
tert-Butylbenzene	U		0.183	0.500	1	10/24/2019 05:08	WG1368527
Carbon disulfide	U		0.101	0.500	1	10/24/2019 05:08	WG1368527
Carbon tetrachloride	U		0.159	0.500	1	10/24/2019 05:08	WG1368527
Chlorobenzene	U		0.140	0.500	1	10/24/2019 05:08	WG1368527
Chlorodibromomethane	U	UJ J0	0.128	0.500	1	10/24/2019 05:08	WG1368527
Chloroethane	U		0.141	2.50	1	10/24/2019 05:08	WG1368527
Chloroform	U		0.0860	0.500	1	10/24/2019 05:08	WG1368527
Chloromethane	U		0.153	1.25	1	10/24/2019 05:08	WG1368527
2-Chlorotoluene	U		0.111	0.500	1	10/24/2019 05:08	WG1368527
4-Chlorotoluene	U		0.0972	0.500	1	10/24/2019 05:08	WG1368527

JC 12/2/2019

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/24/2019 05:08	WG1368527
1,2-Dibromoethane	U		0.193	0.500	1	10/24/2019 05:08	WG1368527
Dibromomethane	U		0.117	0.500	1	10/24/2019 05:08	WG1368527
1,2-Dichlorobenzene	U	UJ J0	0.101	0.500	1	10/24/2019 05:08	WG1368527
1,3-Dichlorobenzene	U	UJ J0 J4	0.130	0.500	1	10/24/2019 05:08	WG1368527
1,4-Dichlorobenzene	U	UJ J0 J4	0.121	0.500	1	10/24/2019 05:08	WG1368527
Dichlorodifluoromethane	U		0.127	2.50	1	10/24/2019 05:08	WG1368527
1,1-Dichloroethane	U		0.114	0.500	1	10/24/2019 05:08	WG1368527
1,2-Dichloroethane	U		0.108	0.500	1	10/24/2019 05:08	WG1368527
1,1-Dichloroethene	U		0.188	0.500	1	10/24/2019 05:08	WG1368527
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/24/2019 05:08	WG1368527
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/24/2019 05:08	WG1368527
1,2-Dichloropropane	U		0.190	0.500	1	10/24/2019 05:08	WG1368527
1,1-Dichloropropene	U		0.128	0.500	1	10/24/2019 05:08	WG1368527
1,3-Dichloropropane	U	UJ J0 J4	0.147	1.00	1	10/24/2019 05:08	WG1368527
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/24/2019 05:08	WG1368527
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/24/2019 05:08	WG1368527
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/24/2019 05:08	WG1368527
2,2-Dichloropropane	U		0.0929	0.500	1	10/24/2019 05:08	WG1368527
Di-isopropyl ether	U		0.0924	0.500	1	10/24/2019 05:08	WG1368527
Ethylbenzene	U		0.158	0.500	1	10/24/2019 05:08	WG1368527
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/24/2019 05:08	WG1368527
2-Hexanone	U		0.757	5.00	1	10/24/2019 05:08	WG1368527
n-Hexane	U	UJ J0	0.305	5.00	1	10/24/2019 05:08	WG1368527
Iodomethane	U		0.377	10.0	1	10/24/2019 05:08	WG1368527
Isopropylbenzene	U		0.126	0.500	1	10/24/2019 05:08	WG1368527
p-Isopropyltoluene	U		0.138	0.500	1	10/24/2019 05:08	WG1368527
2-Butanone (MEK)	U		1.28	5.00	1	10/24/2019 05:08	WG1368527
Methylene Chloride	U		1.07	2.50	1	10/24/2019 05:08	WG1368527
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/24/2019 05:08	WG1368527
Methyl tert-butyl ether	U		0.102	0.500	1	10/24/2019 05:08	WG1368527
Naphthalene	U		0.174	2.50	1	10/24/2019 05:08	WG1368527
n-Propylbenzene	U		0.162	0.500	1	10/24/2019 05:08	WG1368527
Styrene	U		0.117	0.500	1	10/24/2019 05:08	WG1368527
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/24/2019 05:08	WG1368527
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	10/24/2019 05:08	WG1368527
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/24/2019 05:08	WG1368527
Tetrachloroethene	U		0.199	0.500	1	10/24/2019 05:08	WG1368527
Toluene	U		0.412	0.500	1	10/24/2019 05:08	WG1368527
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/24/2019 05:08	WG1368527
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/24/2019 05:08	WG1368527
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/24/2019 05:08	WG1368527
1,1,2-Trichloroethane	U	UJ J0 J4	0.186	0.500	1	10/24/2019 05:08	WG1368527
Trichloroethene	U		0.153	0.500	1	10/24/2019 05:08	WG1368527
Trichlorofluoromethane	U		0.130	2.50	1	10/24/2019 05:08	WG1368527
1,2,3-Trichloropropane	U		0.247	2.50	1	10/24/2019 05:08	WG1368527
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/24/2019 05:08	WG1368527
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/24/2019 05:08	WG1368527
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/24/2019 05:08	WG1368527
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/24/2019 05:08	WG1368527
Vinyl chloride	U		0.118	0.500	1	10/24/2019 05:08	WG1368527
Xylenes, Total	U		0.316	1.50	1	10/24/2019 05:08	WG1368527
(S) Toluene-d8	*99.4*			*80.0-120*		*10/24/2019 05:08*	WG1368527
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/24/2019 05:08*	WG1368527
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/24/2019 05:08*	WG1368527

JC 12/2/2019

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW109-101519
Collected date/time: 10/15/19 09:45

SAMPLE RESULTS - 02

L1150336

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	628000		2710	20000	1	10/22/2019 05:51	WG1366027

Sample Narrative:

L1150336-02 WG1366027: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	13700		51.9	1000	1	10/16/2019 19:18	WG1363847
Nitrate	U		22.7	100	1	10/16/2019 19:18	WG1363847
Sulfate	9120		77.4	5000	1	10/16/2019 19:18	WG1363847

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	10400		102	1000	1	10/19/2019 19:06	WG1365601

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	14400		15.0	100	1	10/22/2019 14:48	WG1364631
Manganese	4100		0.250	5.00	1	10/22/2019 14:48	WG1364631

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	4950		0.287	0.678	1	10/17/2019 15:37	WG1364420
Ethane	25.6		0.296	1.29	1	10/17/2019 15:37	WG1364420
Ethene	6.99		0.422	1.27	1	10/17/2019 15:37	WG1364420

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	10/24/2019 05:29	WG1368527
Acrylonitrile	U		0.873	5.00	1	10/24/2019 05:29	WG1368527
Benzene	U		0.0896	0.500	1	10/24/2019 05:29	WG1368527
Bromobenzene	U		0.133	0.500	1	10/24/2019 05:29	WG1368527
Bromodichloromethane	U		0.0800	0.500	1	10/24/2019 05:29	WG1368527
Bromochloromethane	U		0.145	0.500	1	10/24/2019 05:29	WG1368527
Bromoform	U		0.186	0.500	1	10/24/2019 05:29	WG1368527
Bromomethane	U		0.157	2.50	1	10/24/2019 05:29	WG1368527
n-Butylbenzene	U		0.143	0.500	1	10/24/2019 05:29	WG1368527
sec-Butylbenzene	U		0.134	0.500	1	10/24/2019 05:29	WG1368527
tert-Butylbenzene	U		0.183	0.500	1	10/24/2019 05:29	WG1368527
Carbon disulfide	U		0.101	0.500	1	10/24/2019 05:29	WG1368527
Carbon tetrachloride	U		0.159	0.500	1	10/24/2019 05:29	WG1368527
Chlorobenzene	U		0.140	0.500	1	10/24/2019 05:29	WG1368527
Chlorodibromomethane	U UJ	J0	0.128	0.500	1	10/24/2019 05:29	WG1368527
Chloroethane	U		0.141	2.50	1	10/24/2019 05:29	WG1368527
Chloroform	U		0.0860	0.500	1	10/24/2019 05:29	WG1368527
Chloromethane	U		0.153	1.25	1	10/24/2019 05:29	WG1368527
2-Chlorotoluene	U		0.111	0.500	1	10/24/2019 05:29	WG1368527
4-Chlorotoluene	U		0.0972	0.500	1	10/24/2019 05:29	WG1368527

JC 12/2/2019

MW109-101519

Collected date/time: 10/15/19 09:45

SAMPLE RESULTS - 02

L1150336

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/24/2019 05:29	WG1368527	
1,2-Dibromoethane	U		0.193	0.500	1	10/24/2019 05:29	WG1368527	
Dibromomethane	U		0.117	0.500	1	10/24/2019 05:29	WG1368527	
1,2-Dichlorobenzene	U	UJ J0	0.101	0.500	1	10/24/2019 05:29	WG1368527	
1,3-Dichlorobenzene	U	UJ J0 J4	0.130	0.500	1	10/24/2019 05:29	WG1368527	
1,4-Dichlorobenzene	U	UJ J0 J4	0.121	0.500	1	10/24/2019 05:29	WG1368527	
Dichlorodifluoromethane	U		0.127	2.50	1	10/24/2019 05:29	WG1368527	
1,1-Dichloroethane	U		0.114	0.500	1	10/24/2019 05:29	WG1368527	
1,2-Dichloroethane	U		0.108	0.500	1	10/24/2019 05:29	WG1368527	
1,1-Dichloroethene	0.768		0.188	0.500	1	10/24/2019 05:29	WG1368527	
cis-1,2-Dichloroethene	397		1.87	10.0	20	10/24/2019 20:51	WG1369128	
trans-1,2-Dichloroethene	0.891		0.152	0.500	1	10/24/2019 05:29	WG1368527	
1,2-Dichloropropane	U		0.190	0.500	1	10/24/2019 05:29	WG1368527	
1,1-Dichloropropene	U		0.128	0.500	1	10/24/2019 05:29	WG1368527	
1,3-Dichloropropane	U	UJ J0 J4	0.147	1.00	1	10/24/2019 05:29	WG1368527	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/24/2019 05:29	WG1368527	
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/24/2019 05:29	WG1368527	
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/24/2019 05:29	WG1368527	
2,2-Dichloropropane	U		0.0929	0.500	1	10/24/2019 05:29	WG1368527	
Di-isopropyl ether	U		0.0924	0.500	1	10/24/2019 05:29	WG1368527	
Ethylbenzene	U		0.158	0.500	1	10/24/2019 05:29	WG1368527	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/24/2019 05:29	WG1368527	
2-Hexanone	U		0.757	5.00	1	10/24/2019 05:29	WG1368527	
n-Hexane	U	UJ J0	0.305	5.00	1	10/24/2019 05:29	WG1368527	
Iodomethane	U		0.377	10.0	1	10/24/2019 05:29	WG1368527	
Isopropylbenzene	U		0.126	0.500	1	10/24/2019 05:29	WG1368527	
p-Isopropyltoluene	U		0.138	0.500	1	10/24/2019 05:29	WG1368527	
2-Butanone (MEK)	U		1.28	5.00	1	10/24/2019 05:29	WG1368527	
Methylene Chloride	U		1.07	2.50	1	10/24/2019 05:29	WG1368527	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/24/2019 05:29	WG1368527	
Methyl tert-butyl ether	U		0.102	0.500	1	10/24/2019 05:29	WG1368527	
Naphthalene	U		0.174	2.50	1	10/24/2019 05:29	WG1368527	
n-Propylbenzene	U		0.162	0.500	1	10/24/2019 05:29	WG1368527	
Styrene	U		0.117	0.500	1	10/24/2019 05:29	WG1368527	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/24/2019 05:29	WG1368527	
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	10/24/2019 05:29	WG1368527	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/24/2019 05:29	WG1368527	
Tetrachloroethene	U		0.199	0.500	1	10/24/2019 05:29	WG1368527	
Toluene	U		0.412	0.500	1	10/24/2019 05:29	WG1368527	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/24/2019 05:29	WG1368527	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/24/2019 05:29	WG1368527	
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/24/2019 05:29	WG1368527	
1,1,2-Trichloroethane	U	UJ J0 J4	0.186	0.500	1	10/24/2019 05:29	WG1368527	
Trichloroethene	1.03		0.153	0.500	1	10/24/2019 05:29	WG1368527	
Trichlorofluoromethane	U		0.130	2.50	1	10/24/2019 05:29	WG1368527	
1,2,3-Trichloropropane	U		0.247	2.50	1	10/24/2019 05:29	WG1368527	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/24/2019 05:29	WG1368527	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/24/2019 05:29	WG1368527	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/24/2019 05:29	WG1368527	
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/24/2019 05:29	WG1368527	
Vinyl chloride	109		0.118	0.500	1	10/24/2019 05:29	WG1368527	
Xylenes, Total	U		0.316	1.50	1	10/24/2019 05:29	WG1368527	
(S) Toluene-d8	*102*			*80.0-120*		*10/24/2019 05:29*	WG1368527	
(S) Toluene-d8	*110*			*80.0-120*		*10/24/2019 20:51*	WG1369128	JC 12/2/2019
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*10/24/2019 05:29*	WG1368527	
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*10/24/2019 20:51*	WG1369128	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*10/24/2019 05:29*	WG1368527
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/24/2019 20:51*	WG1369128

JC 12/2/2019

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	114000		2710	20000	1	10/22/2019 05:58	WG1366027

Sample Narrative:

L1150336-03 WG1366027: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	18000		51.9	1000	1	10/16/2019 19:31	WG1363847
Nitrate	1630		22.7	100	1	10/16/2019 19:31	WG1363847
Sulfate	28000		77.4	5000	1	10/16/2019 19:31	WG1363847

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3340	~~B~~	102	1000	1	10/19/2019 19:28	WG1365601

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2580		15.0	100	1	10/22/2019 14:52	WG1364631
Manganese	197		0.250	5.00	1	10/22/2019 14:52	WG1364631

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/18/2019 14:44	WG1365317
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/18/2019 14:44*	WG1365317

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	U		0.287	0.678	1	10/17/2019 16:04	WG1364420
Ethane	U		0.296	1.29	1	10/17/2019 16:04	WG1364420
Ethene	U		0.422	1.27	1	10/17/2019 16:04	WG1364420

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	10/24/2019 05:50	WG1368527
Acrylonitrile	U		0.873	5.00	1	10/24/2019 05:50	WG1368527
Benzene	U		0.0896	0.500	1	10/24/2019 05:50	WG1368527
Bromobenzene	U		0.133	0.500	1	10/24/2019 05:50	WG1368527
Bromodichloromethane	U		0.0800	0.500	1	10/24/2019 05:50	WG1368527
Bromochloromethane	U		0.145	0.500	1	10/24/2019 05:50	WG1368527
Bromoform	U		0.186	0.500	1	10/24/2019 05:50	WG1368527
Bromomethane	U		0.157	2.50	1	10/24/2019 05:50	WG1368527
n-Butylbenzene	U		0.143	0.500	1	10/24/2019 05:50	WG1368527
sec-Butylbenzene	U		0.134	0.500	1	10/24/2019 05:50	WG1368527
tert-Butylbenzene	U		0.183	0.500	1	10/24/2019 05:50	WG1368527
Carbon disulfide	U		0.101	0.500	1	10/24/2019 05:50	WG1368527
Carbon tetrachloride	U		0.159	0.500	1	10/24/2019 05:50	WG1368527

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/24/2019 05:50	WG1368527
Chlorodibromomethane	U	UJ J0	0.128	0.500	1	10/24/2019 05:50	WG1368527
Chloroethane	U		0.141	2.50	1	10/24/2019 05:50	WG1368527
Chloroform	U		0.0860	0.500	1	10/24/2019 05:50	WG1368527
Chloromethane	U		0.153	1.25	1	10/24/2019 05:50	WG1368527
2-Chlorotoluene	U		0.111	0.500	1	10/24/2019 05:50	WG1368527
4-Chlorotoluene	U		0.0972	0.500	1	10/24/2019 05:50	WG1368527
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/24/2019 05:50	WG1368527
1,2-Dibromoethane	U		0.193	0.500	1	10/24/2019 05:50	WG1368527
Dibromomethane	U		0.117	0.500	1	10/24/2019 05:50	WG1368527
1,2-Dichlorobenzene	U	UJ J0	0.101	0.500	1	10/24/2019 05:50	WG1368527
1,3-Dichlorobenzene	U	UJ J0 J4	0.130	0.500	1	10/24/2019 05:50	WG1368527
1,4-Dichlorobenzene	U	UJ J0 J4	0.121	0.500	1	10/24/2019 05:50	WG1368527
Dichlorodifluoromethane	U		0.127	2.50	1	10/24/2019 05:50	WG1368527
1,1-Dichloroethane	U		0.114	0.500	1	10/24/2019 05:50	WG1368527
1,2-Dichloroethane	U		0.108	0.500	1	10/24/2019 05:50	WG1368527
1,1-Dichloroethene	U		0.188	0.500	1	10/24/2019 05:50	WG1368527
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/24/2019 21:11	WG1369128
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/24/2019 05:50	WG1368527
1,2-Dichloropropane	U		0.190	0.500	1	10/24/2019 05:50	WG1368527
1,1-Dichloropropene	U		0.128	0.500	1	10/24/2019 05:50	WG1368527
1,3-Dichloropropane	U	UJ J0 J4	0.147	1.00	1	10/24/2019 05:50	WG1368527
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/24/2019 05:50	WG1368527
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/24/2019 05:50	WG1368527
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/24/2019 05:50	WG1368527
2,2-Dichloropropane	U		0.0929	0.500	1	10/24/2019 05:50	WG1368527
Di-isopropyl ether	U		0.0924	0.500	1	10/24/2019 05:50	WG1368527
Ethylbenzene	U		0.158	0.500	1	10/24/2019 05:50	WG1368527
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/24/2019 05:50	WG1368527
2-Hexanone	U		0.757	5.00	1	10/24/2019 05:50	WG1368527
n-Hexane	U	UJ J0	0.305	5.00	1	10/24/2019 05:50	WG1368527
Iodomethane	U		0.377	10.0	1	10/24/2019 05:50	WG1368527
Isopropylbenzene	U		0.126	0.500	1	10/24/2019 05:50	WG1368527
p-Isopropyltoluene	U		0.138	0.500	1	10/24/2019 05:50	WG1368527
2-Butanone (MEK)	U		1.28	5.00	1	10/24/2019 05:50	WG1368527
Methylene Chloride	U		1.07	2.50	1	10/24/2019 05:50	WG1368527
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/24/2019 05:50	WG1368527
Methyl tert-butyl ether	U		0.102	0.500	1	10/24/2019 05:50	WG1368527
Naphthalene	U		0.174	2.50	1	10/24/2019 05:50	WG1368527
n-Propylbenzene	U		0.162	0.500	1	10/24/2019 05:50	WG1368527
Styrene	U		0.117	0.500	1	10/24/2019 05:50	WG1368527
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/24/2019 05:50	WG1368527
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	10/24/2019 05:50	WG1368527
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/24/2019 05:50	WG1368527
Tetrachloroethene	U		0.199	0.500	1	10/24/2019 05:50	WG1368527
Toluene	U		0.412	0.500	1	10/24/2019 05:50	WG1368527
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/24/2019 05:50	WG1368527
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/24/2019 05:50	WG1368527
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/24/2019 05:50	WG1368527
1,1,2-Trichloroethane	U	UJ J0 J4	0.186	0.500	1	10/24/2019 05:50	WG1368527
Trichloroethene	U		0.153	0.500	1	10/24/2019 05:50	WG1368527
Trichlorofluoromethane	U		0.130	2.50	1	10/24/2019 05:50	WG1368527
1,2,3-Trichloropropane	U		0.247	2.50	1	10/24/2019 05:50	WG1368527
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/24/2019 05:50	WG1368527
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/24/2019 05:50	WG1368527
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/24/2019 05:50	WG1368527

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	10/24/2019 05:50	WG1368527
Vinyl chloride	U			0.118	0.500	1	10/24/2019 05:50	WG1368527
Xylenes, Total	U			0.316	1.50	1	10/24/2019 05:50	WG1368527
(S) Toluene-d8	*101*				*80.0-120*		*10/24/2019 05:50*	WG1368527
(S) Toluene-d8	*112*				*80.0-120*		*10/24/2019 21:11*	WG1369128
(S) 4-Bromofluorobenzene	*103*				*77.0-126*		*10/24/2019 05:50*	WG1368527
(S) 4-Bromofluorobenzene	*116*				*77.0-126*		*10/24/2019 21:11*	WG1369128
(S) 1,2-Dichloroethane-d4	*113*				*70.0-130*		*10/24/2019 05:50*	WG1368527
(S) 1,2-Dichloroethane-d4	*107*				*70.0-130*		*10/24/2019 21:11*	WG1369128

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	210000		2710	20000	1	10/21/2019 23:52	WG1366029

Sample Narrative:

L1150336-04 WG1366029: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	7540		51.9	1000	1	10/16/2019 19:44	WG1363847
Nitrate	U		22.7	100	1	10/16/2019 19:44	WG1363847
Sulfate	3620	J	77.4	5000	1	10/16/2019 19:44	WG1363847

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5120	~~B~~	102	1000	1	10/19/2019 21:17	WG1365601

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	407		15.0	100	1	10/22/2019 14:55	WG1364631
Manganese	335		0.250	5.00	1	10/22/2019 14:55	WG1364631

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	277		0.287	0.678	1	10/17/2019 15:42	WG1364420
Ethane	U		0.296	1.29	1	10/17/2019 15:42	WG1364420
Ethene	U		0.422	1.27	1	10/17/2019 15:42	WG1364420

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.30	J	1.05	25.0	1	10/24/2019 06:10	WG1368527
Acrylonitrile	U		0.873	5.00	1	10/24/2019 06:10	WG1368527
Benzene	U		0.0896	0.500	1	10/24/2019 06:10	WG1368527
Bromobenzene	U		0.133	0.500	1	10/24/2019 06:10	WG1368527
Bromodichloromethane	U		0.0800	0.500	1	10/24/2019 06:10	WG1368527
Bromochloromethane	U		0.145	0.500	1	10/24/2019 06:10	WG1368527
Bromoform	U		0.186	0.500	1	10/24/2019 06:10	WG1368527
Bromomethane	U		0.157	2.50	1	10/24/2019 06:10	WG1368527
n-Butylbenzene	U		0.143	0.500	1	10/24/2019 06:10	WG1368527
sec-Butylbenzene	U		0.134	0.500	1	10/24/2019 06:10	WG1368527
tert-Butylbenzene	U		0.183	0.500	1	10/24/2019 06:10	WG1368527
Carbon disulfide	U		0.101	0.500	1	10/24/2019 06:10	WG1368527
Carbon tetrachloride	U		0.159	0.500	1	10/24/2019 06:10	WG1368527
Chlorobenzene	U		0.140	0.500	1	10/24/2019 06:10	WG1368527
Chlorodibromomethane	U	UJ J0	0.128	0.500	1	10/24/2019 06:10	WG1368527
Chloroethane	U		0.141	2.50	1	10/24/2019 06:10	WG1368527
Chloroform	U		0.0860	0.500	1	10/24/2019 06:10	WG1368527
Chloromethane	U		0.153	1.25	1	10/24/2019 06:10	WG1368527
2-Chlorotoluene	U		0.111	0.500	1	10/24/2019 06:10	WG1368527
4-Chlorotoluene	U		0.0972	0.500	1	10/24/2019 06:10	WG1368527

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/24/2019 06:10	WG1368527
1,2-Dibromoethane	U		0.193	0.500	1	10/24/2019 06:10	WG1368527
Dibromomethane	U		0.117	0.500	1	10/24/2019 06:10	WG1368527
1,2-Dichlorobenzene	U	UJ J0	0.101	0.500	1	10/24/2019 06:10	WG1368527
1,3-Dichlorobenzene	U	UJ J0 J4	0.130	0.500	1	10/24/2019 06:10	WG1368527
1,4-Dichlorobenzene	U	J0 J4	0.121	0.500	1	10/24/2019 06:10	WG1368527
Dichlorodifluoromethane	U		0.127	2.50	1	10/24/2019 06:10	WG1368527
1,1-Dichloroethane	U		0.114	0.500	1	10/24/2019 06:10	WG1368527
1,2-Dichloroethane	U		0.108	0.500	1	10/24/2019 06:10	WG1368527
1,1-Dichloroethene	U		0.188	0.500	1	10/24/2019 06:10	WG1368527
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/24/2019 06:10	WG1368527
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/24/2019 06:10	WG1368527
1,2-Dichloropropane	U		0.190	0.500	1	10/24/2019 06:10	WG1368527
1,1-Dichloropropene	U		0.128	0.500	1	10/24/2019 06:10	WG1368527
1,3-Dichloropropane	U	UJ J0 J4	0.147	1.00	1	10/24/2019 06:10	WG1368527
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/24/2019 06:10	WG1368527
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/24/2019 06:10	WG1368527
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/24/2019 06:10	WG1368527
2,2-Dichloropropane	U		0.0929	0.500	1	10/24/2019 06:10	WG1368527
Di-isopropyl ether	U		0.0924	0.500	1	10/24/2019 06:10	WG1368527
Ethylbenzene	U		0.158	0.500	1	10/24/2019 06:10	WG1368527
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/24/2019 06:10	WG1368527
2-Hexanone	U		0.757	5.00	1	10/24/2019 06:10	WG1368527
n-Hexane	U	UJ J0	0.305	5.00	1	10/24/2019 06:10	WG1368527
Iodomethane	U		0.377	10.0	1	10/24/2019 06:10	WG1368527
Isopropylbenzene	U		0.126	0.500	1	10/24/2019 06:10	WG1368527
p-Isopropyltoluene	U		0.138	0.500	1	10/24/2019 06:10	WG1368527
2-Butanone (MEK)	U		1.28	5.00	1	10/24/2019 06:10	WG1368527
Methylene Chloride	U		1.07	2.50	1	10/24/2019 06:10	WG1368527
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/24/2019 06:10	WG1368527
Methyl tert-butyl ether	U		0.102	0.500	1	10/24/2019 06:10	WG1368527
Naphthalene	U		0.174	2.50	1	10/24/2019 06:10	WG1368527
n-Propylbenzene	U		0.162	0.500	1	10/24/2019 06:10	WG1368527
Styrene	U		0.117	0.500	1	10/24/2019 06:10	WG1368527
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/24/2019 06:10	WG1368527
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	10/24/2019 06:10	WG1368527
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/24/2019 06:10	WG1368527
Tetrachloroethene	U		0.199	0.500	1	10/24/2019 06:10	WG1368527
Toluene	U		0.412	0.500	1	10/24/2019 06:10	WG1368527
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/24/2019 06:10	WG1368527
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/24/2019 06:10	WG1368527
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/24/2019 06:10	WG1368527
1,1,2-Trichloroethane	U	UJ J0 J4	0.186	0.500	1	10/24/2019 06:10	WG1368527
Trichloroethene	U		0.153	0.500	1	10/24/2019 06:10	WG1368527
Trichlorofluoromethane	U		0.130	2.50	1	10/24/2019 06:10	WG1368527
1,2,3-Trichloropropane	U		0.247	2.50	1	10/24/2019 06:10	WG1368527
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/24/2019 06:10	WG1368527
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/24/2019 06:10	WG1368527
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/24/2019 06:10	WG1368527
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/24/2019 06:10	WG1368527
Vinyl chloride	U		0.118	0.500	1	10/24/2019 06:10	WG1368527
Xylenes, Total	U		0.316	1.50	1	10/24/2019 06:10	WG1368527
(S) Toluene-d8	*99.8*			*80.0-120*		*10/24/2019 06:10*	WG1368527
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*10/24/2019 06:10*	WG1368527
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/24/2019 06:10*	WG1368527

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	187000		2710	20000	1	10/21/2019 23:59	WG1366029

Sample Narrative:

L1150336-05 WG1366029: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	8790		51.9	1000	1	10/16/2019 20:22	WG1363847
Nitrate	U		22.7	100	1	10/16/2019 20:22	WG1363847
Sulfate	80900		77.4	5000	1	10/16/2019 20:22	WG1363847

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2320	~~B~~	102	1000	1	10/19/2019 21:31	WG1365601

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3810		15.0	100	1	10/22/2019 14:59	WG1364631
Manganese	608		0.250	5.00	1	10/22/2019 14:59	WG1364631

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/18/2019 15:07	WG1365317
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/18/2019 15:07*	WG1365317

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	10/17/2019 15:44	WG1364420
Ethane	U		0.296	1.29	1	10/17/2019 15:44	WG1364420
Ethene	U		0.422	1.27	1	10/17/2019 15:44	WG1364420

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	10/24/2019 06:31	WG1368527
Acrylonitrile	U		0.873	5.00	1	10/24/2019 06:31	WG1368527
Benzene	U		0.0896	0.500	1	10/24/2019 06:31	WG1368527
Bromobenzene	U		0.133	0.500	1	10/24/2019 06:31	WG1368527
Bromodichloromethane	U		0.0800	0.500	1	10/24/2019 06:31	WG1368527
Bromochloromethane	U		0.145	0.500	1	10/24/2019 06:31	WG1368527
Bromoform	U		0.186	0.500	1	10/24/2019 06:31	WG1368527
Bromomethane	U		0.157	2.50	1	10/24/2019 06:31	WG1368527
n-Butylbenzene	U		0.143	0.500	1	10/24/2019 06:31	WG1368527
sec-Butylbenzene	U		0.134	0.500	1	10/24/2019 06:31	WG1368527
tert-Butylbenzene	U		0.183	0.500	1	10/24/2019 06:31	WG1368527
Carbon disulfide	U		0.101	0.500	1	10/24/2019 06:31	WG1368527
Carbon tetrachloride	U		0.159	0.500	1	10/24/2019 06:31	WG1368527

JC 12/2/2019

MW-306-101519
Collected date/time: 10/15/19 11:40

SAMPLE RESULTS - 05

L1150336

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/24/2019 06:31	WG1368527
Chlorodibromomethane	U UJ	J0	0.128	0.500	1	10/24/2019 06:31	WG1368527
Chloroethane	U		0.141	2.50	1	10/24/2019 06:31	WG1368527
Chloroform	U		0.0860	0.500	1	10/24/2019 06:31	WG1368527
Chloromethane	U		0.153	1.25	1	10/24/2019 06:31	WG1368527
2-Chlorotoluene	U		0.111	0.500	1	10/24/2019 06:31	WG1368527
4-Chlorotoluene	U		0.0972	0.500	1	10/24/2019 06:31	WG1368527
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/24/2019 06:31	WG1368527
1,2-Dibromoethane	U		0.193	0.500	1	10/24/2019 06:31	WG1368527
Dibromomethane	U		0.117	0.500	1	10/24/2019 06:31	WG1368527
1,2-Dichlorobenzene	U UJ	J0	0.101	0.500	1	10/24/2019 06:31	WG1368527
1,3-Dichlorobenzene	U UJ	J0 J4	0.130	0.500	1	10/24/2019 06:31	WG1368527
1,4-Dichlorobenzene	U UJ	J0 J4	0.121	0.500	1	10/24/2019 06:31	WG1368527
Dichlorodifluoromethane	U		0.127	2.50	1	10/24/2019 06:31	WG1368527
1,1-Dichloroethane	U		0.114	0.500	1	10/24/2019 06:31	WG1368527
1,2-Dichloroethane	U		0.108	0.500	1	10/24/2019 06:31	WG1368527
1,1-Dichloroethene	U		0.188	0.500	1	10/24/2019 06:31	WG1368527
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/24/2019 06:31	WG1368527
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/24/2019 06:31	WG1368527
1,2-Dichloropropane	U		0.190	0.500	1	10/24/2019 06:31	WG1368527
1,1-Dichloropropene	U		0.128	0.500	1	10/24/2019 06:31	WG1368527
1,3-Dichloropropane	U UJ	J0 J4	0.147	1.00	1	10/24/2019 06:31	WG1368527
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/24/2019 06:31	WG1368527
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/24/2019 06:31	WG1368527
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/24/2019 06:31	WG1368527
2,2-Dichloropropane	U		0.0929	0.500	1	10/24/2019 06:31	WG1368527
Di-isopropyl ether	U		0.0924	0.500	1	10/24/2019 06:31	WG1368527
Ethylbenzene	U		0.158	0.500	1	10/24/2019 06:31	WG1368527
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/24/2019 06:31	WG1368527
2-Hexanone	U		0.757	5.00	1	10/24/2019 06:31	WG1368527
n-Hexane	U UJ	J0	0.305	5.00	1	10/24/2019 06:31	WG1368527
Iodomethane	U		0.377	10.0	1	10/24/2019 06:31	WG1368527
Isopropylbenzene	U		0.126	0.500	1	10/24/2019 06:31	WG1368527
p-Isopropyltoluene	U		0.138	0.500	1	10/24/2019 06:31	WG1368527
2-Butanone (MEK)	U		1.28	5.00	1	10/24/2019 06:31	WG1368527
Methylene Chloride	U		1.07	2.50	1	10/24/2019 06:31	WG1368527
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/24/2019 06:31	WG1368527
Methyl tert-butyl ether	U		0.102	0.500	1	10/24/2019 06:31	WG1368527
Naphthalene	U		0.174	2.50	1	10/24/2019 06:31	WG1368527
n-Propylbenzene	U		0.162	0.500	1	10/24/2019 06:31	WG1368527
Styrene	U		0.117	0.500	1	10/24/2019 06:31	WG1368527
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/24/2019 06:31	WG1368527
1,1,2,2-Tetrachloroethane	U UJ	J0	0.130	0.500	1	10/24/2019 06:31	WG1368527
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/24/2019 06:31	WG1368527
Tetrachloroethene	U		0.199	0.500	1	10/24/2019 06:31	WG1368527
Toluene	U		0.412	0.500	1	10/24/2019 06:31	WG1368527
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/24/2019 06:31	WG1368527
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/24/2019 06:31	WG1368527
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/24/2019 06:31	WG1368527
1,1,2-Trichloroethane	U UJ	J0 J4	0.186	0.500	1	10/24/2019 06:31	WG1368527
Trichloroethene	U		0.153	0.500	1	10/24/2019 06:31	WG1368527
Trichlorofluoromethane	U		0.130	2.50	1	10/24/2019 06:31	WG1368527
1,2,3-Trichloropropane	U		0.247	2.50	1	10/24/2019 06:31	WG1368527
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/24/2019 06:31	WG1368527
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/24/2019 06:31	WG1368527
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/24/2019 06:31	WG1368527

JC 12/2/2019

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/24/2019 06:31	WG1368527
Vinyl chloride	U		0.118	0.500	1	10/24/2019 06:31	WG1368527
Xylenes, Total	U		0.316	1.50	1	10/24/2019 06:31	WG1368527
(S) Toluene-d8	*99.6*			*80.0-120*		*10/24/2019 06:31*	WG1368527
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*10/24/2019 06:31*	WG1368527
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/24/2019 06:31*	WG1368527

JC 12/2/2019

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	239000		2710	20000	1	10/22/2019 00:07	WG1366029

Sample Narrative:

L1150336-06 WG1366029: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	31600		51.9	1000	1	10/16/2019 20:35	WG1363847
Nitrate	U		22.7	100	1	10/16/2019 20:35	WG1363847
Sulfate	73800		77.4	5000	1	10/16/2019 20:35	WG1363847

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2490	~~B~~	102	1000	1	10/19/2019 22:38	WG1365601

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	1160		15.0	100	1	10/22/2019 15:03	WG1364631
Manganese	320		0.250	5.00	1	10/22/2019 15:03	WG1364631

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/18/2019 15:31	WG1365317
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/18/2019 15:31*	WG1365317

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	384		0.287	0.678	1	10/17/2019 15:50	WG1364420
Ethane	U		0.296	1.29	1	10/17/2019 15:50	WG1364420
Ethene	U		0.422	1.27	1	10/17/2019 15:50	WG1364420

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	10/24/2019 06:52	WG1368527
Acrylonitrile	U		0.873	5.00	1	10/24/2019 06:52	WG1368527
Benzene	U		0.0896	0.500	1	10/24/2019 06:52	WG1368527
Bromobenzene	U		0.133	0.500	1	10/24/2019 06:52	WG1368527
Bromodichloromethane	U		0.0800	0.500	1	10/24/2019 06:52	WG1368527
Bromochloromethane	U		0.145	0.500	1	10/24/2019 06:52	WG1368527
Bromoform	U		0.186	0.500	1	10/24/2019 06:52	WG1368527
Bromomethane	U		0.157	2.50	1	10/24/2019 06:52	WG1368527
n-Butylbenzene	U		0.143	0.500	1	10/24/2019 06:52	WG1368527
sec-Butylbenzene	U		0.134	0.500	1	10/24/2019 06:52	WG1368527
tert-Butylbenzene	U		0.183	0.500	1	10/24/2019 06:52	WG1368527
Carbon disulfide	U		0.101	0.500	1	10/24/2019 06:52	WG1368527
Carbon tetrachloride	U		0.159	0.500	1	10/24/2019 06:52	WG1368527

JC 12/2/2019

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U			0.140	0.500	1	10/24/2019 06:52	WG1368527
Chlorodibromomethane	U	UJ	J0	0.128	0.500	1	10/24/2019 06:52	WG1368527
Chloroethane	U			0.141	2.50	1	10/24/2019 06:52	WG1368527
Chloroform	U			0.0860	0.500	1	10/24/2019 06:52	WG1368527
Chloromethane	U			0.153	1.25	1	10/24/2019 06:52	WG1368527
2-Chlorotoluene	U			0.111	0.500	1	10/24/2019 06:52	WG1368527
4-Chlorotoluene	U			0.0972	0.500	1	10/24/2019 06:52	WG1368527
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	10/24/2019 06:52	WG1368527
1,2-Dibromoethane	U			0.193	0.500	1	10/24/2019 06:52	WG1368527
Dibromomethane	U			0.117	0.500	1	10/24/2019 06:52	WG1368527
1,2-Dichlorobenzene	U		J0	0.101	0.500	1	10/24/2019 06:52	WG1368527
1,3-Dichlorobenzene	U	UJ	J0 J4	0.130	0.500	1	10/24/2019 06:52	WG1368527
1,4-Dichlorobenzene	U		J0 J4	0.121	0.500	1	10/24/2019 06:52	WG1368527
Dichlorodifluoromethane	U			0.127	2.50	1	10/24/2019 06:52	WG1368527
1,1-Dichloroethane	U			0.114	0.500	1	10/24/2019 06:52	WG1368527
1,2-Dichloroethane	U			0.108	0.500	1	10/24/2019 06:52	WG1368527
1,1-Dichloroethene	U			0.188	0.500	1	10/24/2019 06:52	WG1368527
cis-1,2-Dichloroethene	0.408		J	0.0933	0.500	1	10/24/2019 06:52	WG1368527
trans-1,2-Dichloroethene	U			0.152	0.500	1	10/24/2019 06:52	WG1368527
1,2-Dichloropropane	U			0.190	0.500	1	10/24/2019 06:52	WG1368527
1,1-Dichloropropene	U			0.128	0.500	1	10/24/2019 06:52	WG1368527
1,3-Dichloropropane	U	UJ	J0 J4	0.147	1.00	1	10/24/2019 06:52	WG1368527
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/24/2019 06:52	WG1368527
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/24/2019 06:52	WG1368527
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.257	5.00	1	10/24/2019 06:52	WG1368527
2,2-Dichloropropane	U			0.0929	0.500	1	10/24/2019 06:52	WG1368527
Di-isopropyl ether	U			0.0924	0.500	1	10/24/2019 06:52	WG1368527
Ethylbenzene	U			0.158	0.500	1	10/24/2019 06:52	WG1368527
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/24/2019 06:52	WG1368527
2-Hexanone	U			0.757	5.00	1	10/24/2019 06:52	WG1368527
n-Hexane	U	UJ	J0	0.305	5.00	1	10/24/2019 06:52	WG1368527
Iodomethane	U			0.377	10.0	1	10/24/2019 06:52	WG1368527
Isopropylbenzene	U			0.126	0.500	1	10/24/2019 06:52	WG1368527
p-Isopropyltoluene	U			0.138	0.500	1	10/24/2019 06:52	WG1368527
2-Butanone (MEK)	U			1.28	5.00	1	10/24/2019 06:52	WG1368527
Methylene Chloride	U			1.07	2.50	1	10/24/2019 06:52	WG1368527
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	10/24/2019 06:52	WG1368527
Methyl tert-butyl ether	U			0.102	0.500	1	10/24/2019 06:52	WG1368527
Naphthalene	U			0.174	2.50	1	10/24/2019 06:52	WG1368527
n-Propylbenzene	U			0.162	0.500	1	10/24/2019 06:52	WG1368527
Styrene	U			0.117	0.500	1	10/24/2019 06:52	WG1368527
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	10/24/2019 06:52	WG1368527
1,1,2,2-Tetrachloroethane	U	UJ	J0	0.130	0.500	1	10/24/2019 06:52	WG1368527
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	10/24/2019 06:52	WG1368527
Tetrachloroethene	U			0.199	0.500	1	10/24/2019 06:52	WG1368527
Toluene	U			0.412	0.500	1	10/24/2019 06:52	WG1368527
1,2,3-Trichlorobenzene	U			0.164	0.500	1	10/24/2019 06:52	WG1368527
1,2,4-Trichlorobenzene	U			0.355	0.500	1	10/24/2019 06:52	WG1368527
1,1,1-Trichloroethane	U			0.0940	0.500	1	10/24/2019 06:52	WG1368527
1,1,2-Trichloroethane	U	UJ	J0 J4	0.186	0.500	1	10/24/2019 06:52	WG1368527
Trichloroethene	0.350		J	0.153	0.500	1	10/24/2019 06:52	WG1368527
Trichlorofluoromethane	U			0.130	2.50	1	10/24/2019 06:52	WG1368527
1,2,3-Trichloropropane	U			0.247	2.50	1	10/24/2019 06:52	WG1368527
1,2,4-Trimethylbenzene	U			0.123	0.500	1	10/24/2019 06:52	WG1368527
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	10/24/2019 06:52	WG1368527
1,3,5-Trimethylbenzene	U			0.124	0.500	1	10/24/2019 06:52	WG1368527

JC 12/2/2019

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Vinyl acetate	U	UJ	J0	0.645	5.00	1	10/24/2019 06:52	WG1368527
Vinyl chloride	7.36			0.118	0.500	1	10/24/2019 06:52	WG1368527
Xylenes, Total	U			0.316	1.50	1	10/24/2019 06:52	WG1368527
(S) Toluene-d8	*99.4*				*80.0-120*		*10/24/2019 06:52*	WG1368527
(S) 4-Bromofluorobenzene	*102*				*77.0-126*		*10/24/2019 06:52*	WG1368527
(S) 1,2-Dichloroethane-d4	*113*				*70.0-130*		*10/24/2019 06:52*	WG1368527

JC 12/2/2019

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	465000		2710	20000	1	10/22/2019 00:15	WG1366029

Sample Narrative:

L1150336-07 WG1366029: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	19300		51.9	1000	1	10/16/2019 20:47	WG1363847
Nitrate	U		22.7	100	1	10/16/2019 20:47	WG1363847
Sulfate	73200		77.4	5000	1	10/16/2019 20:47	WG1363847

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7050		102	1000	1	10/19/2019 23:00	WG1365601

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1290		15.0	100	1	10/22/2019 15:07	WG1364631
Manganese	3430		0.250	5.00	1	10/22/2019 15:07	WG1364631

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	5020		0.287	0.678	1	10/17/2019 15:53	WG1364420
Ethane	U		0.296	1.29	1	10/17/2019 15:53	WG1364420
Ethene	U		0.422	1.27	1	10/17/2019 15:53	WG1364420

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.11	J	1.05	25.0	1	10/24/2019 07:12	WG1368527
Acrylonitrile	U		0.873	5.00	1	10/24/2019 07:12	WG1368527
Benzene	0.233	J	0.0896	0.500	1	10/24/2019 07:12	WG1368527
Bromobenzene	U		0.133	0.500	1	10/24/2019 07:12	WG1368527
Bromodichloromethane	U		0.0800	0.500	1	10/24/2019 07:12	WG1368527
Bromochloromethane	U		0.145	0.500	1	10/24/2019 07:12	WG1368527
Bromoform	U		0.186	0.500	1	10/24/2019 07:12	WG1368527
Bromomethane	U		0.157	2.50	1	10/24/2019 07:12	WG1368527
n-Butylbenzene	U		0.143	0.500	1	10/24/2019 07:12	WG1368527
sec-Butylbenzene	U		0.134	0.500	1	10/24/2019 07:12	WG1368527
tert-Butylbenzene	U		0.183	0.500	1	10/24/2019 07:12	WG1368527
Carbon disulfide	U		0.101	0.500	1	10/24/2019 07:12	WG1368527
Carbon tetrachloride	U		0.159	0.500	1	10/24/2019 07:12	WG1368527
Chlorobenzene	U		0.140	0.500	1	10/24/2019 07:12	WG1368527
Chlorodibromomethane	U UJ	J0	0.128	0.500	1	10/24/2019 07:12	WG1368527
Chloroethane	U		0.141	2.50	1	10/24/2019 07:12	WG1368527
Chloroform	U		0.0860	0.500	1	10/24/2019 07:12	WG1368527
Chloromethane	U		0.153	1.25	1	10/24/2019 07:12	WG1368527
2-Chlorotoluene	U		0.111	0.500	1	10/24/2019 07:12	WG1368527
4-Chlorotoluene	U		0.0972	0.500	1	10/24/2019 07:12	WG1368527

JC 12/2/2019

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/24/2019 07:12	WG1368527
1,2-Dibromoethane	U		0.193	0.500	1	10/24/2019 07:12	WG1368527
Dibromomethane	U		0.117	0.500	1	10/24/2019 07:12	WG1368527
1,2-Dichlorobenzene	U	UJ J0	0.101	0.500	1	10/24/2019 07:12	WG1368527
1,3-Dichlorobenzene	U	UJ J0 J4	0.130	0.500	1	10/24/2019 07:12	WG1368527
1,4-Dichlorobenzene	U	UJ J0 J4	0.121	0.500	1	10/24/2019 07:12	WG1368527
Dichlorodifluoromethane	U		0.127	2.50	1	10/24/2019 07:12	WG1368527
1,1-Dichloroethane	U		0.114	0.500	1	10/24/2019 07:12	WG1368527
1,2-Dichloroethane	U		0.108	0.500	1	10/24/2019 07:12	WG1368527
1,1-Dichloroethene	5.01		0.188	0.500	1	10/24/2019 07:12	WG1368527
cis-1,2-Dichloroethene	574		4.67	25.0	50	10/24/2019 21:32	WG1369128
trans-1,2-Dichloroethene	3.86		0.152	0.500	1	10/24/2019 07:12	WG1368527
1,2-Dichloropropane	U		0.190	0.500	1	10/24/2019 07:12	WG1368527
1,1-Dichloropropene	U		0.128	0.500	1	10/24/2019 07:12	WG1368527
1,3-Dichloropropane	U	UJ J0 J4	0.147	1.00	1	10/24/2019 07:12	WG1368527
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/24/2019 07:12	WG1368527
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/24/2019 07:12	WG1368527
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/24/2019 07:12	WG1368527
2,2-Dichloropropane	U		0.0929	0.500	1	10/24/2019 07:12	WG1368527
Di-isopropyl ether	U		0.0924	0.500	1	10/24/2019 07:12	WG1368527
Ethylbenzene	U		0.158	0.500	1	10/24/2019 07:12	WG1368527
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/24/2019 07:12	WG1368527
2-Hexanone	U		0.757	5.00	1	10/24/2019 07:12	WG1368527
n-Hexane	U	UJ J0	0.305	5.00	1	10/24/2019 07:12	WG1368527
Iodomethane	U		0.377	10.0	1	10/24/2019 07:12	WG1368527
Isopropylbenzene	U		0.126	0.500	1	10/24/2019 07:12	WG1368527
p-Isopropyltoluene	U		0.138	0.500	1	10/24/2019 07:12	WG1368527
2-Butanone (MEK)	U		1.28	5.00	1	10/24/2019 07:12	WG1368527
Methylene Chloride	U		1.07	2.50	1	10/24/2019 07:12	WG1368527
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/24/2019 07:12	WG1368527
Methyl tert-butyl ether	U		0.102	0.500	1	10/24/2019 07:12	WG1368527
Naphthalene	U		0.174	2.50	1	10/24/2019 07:12	WG1368527
n-Propylbenzene	U		0.162	0.500	1	10/24/2019 07:12	WG1368527
Styrene	U		0.117	0.500	1	10/24/2019 07:12	WG1368527
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/24/2019 07:12	WG1368527
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	10/24/2019 07:12	WG1368527
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/24/2019 07:12	WG1368527
Tetrachloroethene	1180		9.95	25.0	50	10/24/2019 21:32	WG1369128
Toluene	U		0.412	0.500	1	10/24/2019 07:12	WG1368527
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/24/2019 07:12	WG1368527
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/24/2019 07:12	WG1368527
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/24/2019 07:12	WG1368527
1,1,2-Trichloroethane	U	UJ J0 J4	0.186	0.500	1	10/24/2019 07:12	WG1368527
Trichloroethene	498		7.65	25.0	50	10/24/2019 21:32	WG1369128
Trichlorofluoromethane	U		0.130	2.50	1	10/24/2019 07:12	WG1368527
1,2,3-Trichloropropane	U		0.247	2.50	1	10/24/2019 07:12	WG1368527
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/24/2019 07:12	WG1368527
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/24/2019 07:12	WG1368527
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/24/2019 07:12	WG1368527
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/24/2019 07:12	WG1368527
Vinyl chloride	0.853		0.118	0.500	1	10/24/2019 07:12	WG1368527
Xylenes, Total	U		0.316	1.50	1	10/24/2019 07:12	WG1368527
(S) Toluene-d8	*98.6*			*80.0-120*		*10/24/2019 07:12*	WG1368527
(S) Toluene-d8	*112*			*80.0-120*		*10/24/2019 21:32*	WG1369128
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*10/24/2019 07:12*	WG1368527
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*10/24/2019 21:32*	WG1369128

JC 12/2/2019

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/24/2019 07:12*	WG1368527
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*10/24/2019 21:32*	WG1369128

JC 12/2/2019

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	174000		2710	20000	1	10/22/2019 00:22	WG1366029

Sample Narrative:

L1150336-08 WG1366029: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	10500		51.9	1000	1	10/16/2019 21:00	WG1363847
Nitrate	U		22.7	100	1	10/16/2019 21:00	WG1363847
Sulfate	8290		77.4	5000	1	10/16/2019 21:00	WG1363847

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2320	~~B~~	102	1000	1	10/19/2019 23:20	WG1365601

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	6770		15.0	100	1	10/22/2019 15:10	WG1364631
Manganese	420		0.250	5.00	1	10/22/2019 15:10	WG1364631

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/18/2019 18:42	WG1365317
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/18/2019 18:42*	WG1365317

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	20.2		0.287	0.678	1	10/18/2019 13:10	WG1365165
Ethane	U		0.296	1.29	1	10/18/2019 13:10	WG1365165
Ethene	U		0.422	1.27	1	10/18/2019 13:10	WG1365165

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U UJ	J0	1.05	25.0	1	10/25/2019 22:30	WG1369955
Acrylonitrile	U		0.873	5.00	1	10/25/2019 22:30	WG1369955
Benzene	U		0.0896	0.500	1	10/25/2019 22:30	WG1369955
Bromobenzene	U UJ	J0	0.133	0.500	1	10/25/2019 22:30	WG1369955
Bromodichloromethane	U		0.0800	0.500	1	10/25/2019 22:30	WG1369955
Bromochloromethane	U		0.145	0.500	1	10/25/2019 22:30	WG1369955
Bromoform	U		0.186	0.500	1	10/25/2019 22:30	WG1369955
Bromomethane	U		0.157	2.50	1	10/25/2019 22:30	WG1369955
n-Butylbenzene	U		0.143	0.500	1	10/25/2019 22:30	WG1369955
sec-Butylbenzene	U		0.134	0.500	1	10/25/2019 22:30	WG1369955
tert-Butylbenzene	U		0.183	0.500	1	10/25/2019 22:30	WG1369955
Carbon disulfide	U		0.101	0.500	1	10/25/2019 22:30	WG1369955
Carbon tetrachloride	U		0.159	0.500	1	10/25/2019 22:30	WG1369955

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	10/25/2019 22:30	WG1369955	
Chlorodibromomethane	U		0.128	0.500	1	10/25/2019 22:30	WG1369955	
Chloroethane	U		0.141	2.50	1	10/25/2019 22:30	WG1369955	
Chloroform	U		0.0860	0.500	1	10/25/2019 22:30	WG1369955	
Chloromethane	U	UJ J0	0.153	1.25	1	10/25/2019 22:30	WG1369955	
2-Chlorotoluene	U		0.111	0.500	1	10/25/2019 22:30	WG1369955	
4-Chlorotoluene	U		0.0972	0.500	1	10/25/2019 22:30	WG1369955	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/25/2019 22:30	WG1369955	
1,2-Dibromoethane	U		0.193	0.500	1	10/25/2019 22:30	WG1369955	
Dibromomethane	U		0.117	0.500	1	10/25/2019 22:30	WG1369955	
1,2-Dichlorobenzene	U		0.101	0.500	1	10/25/2019 22:30	WG1369955	
1,3-Dichlorobenzene	U		0.130	0.500	1	10/25/2019 22:30	WG1369955	
1,4-Dichlorobenzene	U		0.121	0.500	1	10/25/2019 22:30	WG1369955	
Dichlorodifluoromethane	U		0.127	2.50	1	10/25/2019 22:30	WG1369955	
1,1-Dichloroethane	U		0.114	0.500	1	10/25/2019 22:30	WG1369955	
1,2-Dichloroethane	U		0.108	0.500	1	10/25/2019 22:30	WG1369955	
1,1-Dichloroethene	U		0.188	0.500	1	10/25/2019 22:30	WG1369955	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/25/2019 22:30	WG1369955	
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/25/2019 22:30	WG1369955	
1,2-Dichloropropane	U		0.190	0.500	1	10/25/2019 22:30	WG1369955	
1,1-Dichloropropene	U		0.128	0.500	1	10/25/2019 22:30	WG1369955	
1,3-Dichloropropane	U		0.147	1.00	1	10/25/2019 22:30	WG1369955	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/25/2019 22:30	WG1369955	
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/25/2019 22:30	WG1369955	
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/25/2019 22:30	WG1369955	
2,2-Dichloropropane	U		0.0929	0.500	1	10/25/2019 22:30	WG1369955	
Di-isopropyl ether	U		0.0924	0.500	1	10/25/2019 22:30	WG1369955	
Ethylbenzene	U		0.158	0.500	1	10/25/2019 22:30	WG1369955	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/25/2019 22:30	WG1369955	
2-Hexanone	U		0.757	5.00	1	10/25/2019 22:30	WG1369955	
n-Hexane	U		0.305	5.00	1	10/25/2019 22:30	WG1369955	
Iodomethane	U		0.377	10.0	1	10/25/2019 22:30	WG1369955	
Isopropylbenzene	U		0.126	0.500	1	10/25/2019 22:30	WG1369955	
p-Isopropyltoluene	U		0.138	0.500	1	10/25/2019 22:30	WG1369955	
2-Butanone (MEK)	U		1.28	5.00	1	10/25/2019 22:30	WG1369955	
Methylene Chloride	U		1.07	2.50	1	10/25/2019 22:30	WG1369955	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/25/2019 22:30	WG1369955	
Methyl tert-butyl ether	U		0.102	0.500	1	10/25/2019 22:30	WG1369955	
Naphthalene	U		0.174	2.50	1	10/25/2019 22:30	WG1369955	
n-Propylbenzene	U		0.162	0.500	1	10/25/2019 22:30	WG1369955	
Styrene	U		0.117	0.500	1	10/25/2019 22:30	WG1369955	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/25/2019 22:30	WG1369955	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/25/2019 22:30	WG1369955	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/25/2019 22:30	WG1369955	
Tetrachloroethene	U		0.199	0.500	1	10/25/2019 22:30	WG1369955	
Toluene	U		0.412	0.500	1	10/25/2019 22:30	WG1369955	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/25/2019 22:30	WG1369955	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/25/2019 22:30	WG1369955	
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/25/2019 22:30	WG1369955	
1,1,2-Trichloroethane	U		0.186	0.500	1	10/25/2019 22:30	WG1369955	
Trichloroethene	U		0.153	0.500	1	10/25/2019 22:30	WG1369955	JC 12/2/2019
Trichlorofluoromethane	U		0.130	2.50	1	10/25/2019 22:30	WG1369955	
1,2,3-Trichloropropane	U		0.247	2.50	1	10/25/2019 22:30	WG1369955	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/25/2019 22:30	WG1369955	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/25/2019 22:30	WG1369955	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/25/2019 22:30	WG1369955	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/25/2019 22:30	WG1369955
Vinyl chloride	U		0.118	0.500	1	10/25/2019 22:30	WG1369955
Xylenes, Total	U		0.316	1.50	1	10/25/2019 22:30	WG1369955
(S) Toluene-d8	*112*			*80.0-120*		*10/25/2019 22:30*	WG1369955
(S) 4-Bromofluorobenzene	*113*			*77.0-126*		*10/25/2019 22:30*	WG1369955
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/25/2019 22:30*	WG1369955

JC 12/2/2019

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	667000		2710	20000	1	10/22/2019 00:30	WG1366029

Sample Narrative:

L1150336-09 WG1366029: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	26100		51.9	1000	1	10/16/2019 21:13	WG1363847
Nitrate	U		22.7	100	1	10/16/2019 21:13	WG1363847
Sulfate	68700		77.4	5000	1	10/16/2019 21:13	WG1363847

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	11300		102	1000	1	10/19/2019 23:45	WG1365601

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	4600		15.0	100	1	10/22/2019 15:14	WG1364631
Manganese	1170		0.250	5.00	1	10/22/2019 15:14	WG1364631

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	365		31.6	100	1	10/18/2019 19:06	WG1365317
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*10/18/2019 19:06*	WG1365317

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	12900		2.87	6.78	10	10/18/2019 13:13	WG1365165
Ethane	34.1		0.296	1.29	1	10/17/2019 15:55	WG1364420
Ethene	29.6		0.422	1.27	1	10/17/2019 15:55	WG1364420

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.21 J	J J0	1.05	25.0	1	10/25/2019 22:50	WG1369955
Acrylonitrile	U		0.873	5.00	1	10/25/2019 22:50	WG1369955
Benzene	0.167	J	0.0896	0.500	1	10/25/2019 22:50	WG1369955
Bromobenzene	U UJ	J0	0.133	0.500	1	10/25/2019 22:50	WG1369955
Bromodichloromethane	U		0.0800	0.500	1	10/25/2019 22:50	WG1369955
Bromochloromethane	U		0.145	0.500	1	10/25/2019 22:50	WG1369955
Bromoform	U		0.186	0.500	1	10/25/2019 22:50	WG1369955
Bromomethane	U		0.157	2.50	1	10/25/2019 22:50	WG1369955
n-Butylbenzene	U		0.143	0.500	1	10/25/2019 22:50	WG1369955
sec-Butylbenzene	U		0.134	0.500	1	10/25/2019 22:50	WG1369955
tert-Butylbenzene	U		0.183	0.500	1	10/25/2019 22:50	WG1369955
Carbon disulfide	0.342 U	~~J~~	0.101	0.500	1	10/25/2019 22:50	WG1369955
Carbon tetrachloride	U		0.159	0.500	1	10/25/2019 22:50	WG1369955

JC 12/2/2019

MW-107-101519

Collected date/time: 10/15/19 14:00

SAMPLE RESULTS - 09

L1150336

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/25/2019 22:50	WG1369955
Chlorodibromomethane	U		0.128	0.500	1	10/25/2019 22:50	WG1369955
Chloroethane	3.45		0.141	2.50	1	10/25/2019 22:50	WG1369955
Chloroform	U		0.0860	0.500	1	10/25/2019 22:50	WG1369955
Chloromethane	U UJ	J0	0.153	1.25	1	10/25/2019 22:50	WG1369955
2-Chlorotoluene	U		0.111	0.500	1	10/25/2019 22:50	WG1369955
4-Chlorotoluene	U		0.0972	0.500	1	10/25/2019 22:50	WG1369955
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/25/2019 22:50	WG1369955
1,2-Dibromoethane	U		0.193	0.500	1	10/25/2019 22:50	WG1369955
Dibromomethane	U		0.117	0.500	1	10/25/2019 22:50	WG1369955
1,2-Dichlorobenzene	U		0.101	0.500	1	10/25/2019 22:50	WG1369955
1,3-Dichlorobenzene	U		0.130	0.500	1	10/25/2019 22:50	WG1369955
1,4-Dichlorobenzene	U		0.121	0.500	1	10/25/2019 22:50	WG1369955
Dichlorodifluoromethane	U		0.127	2.50	1	10/25/2019 22:50	WG1369955
1,1-Dichloroethane	U		0.114	0.500	1	10/25/2019 22:50	WG1369955
1,2-Dichloroethane	U		0.108	0.500	1	10/25/2019 22:50	WG1369955
1,1-Dichloroethene	3.27		0.188	0.500	1	10/25/2019 22:50	WG1369955
cis-1,2-Dichloroethene	333		0.933	5.00	10	10/27/2019 15:29	WG1370146
trans-1,2-Dichloroethene	7.04		0.152	0.500	1	10/25/2019 22:50	WG1369955
1,2-Dichloropropane	U		0.190	0.500	1	10/25/2019 22:50	WG1369955
1,1-Dichloropropene	U		0.128	0.500	1	10/25/2019 22:50	WG1369955
1,3-Dichloropropane	U		0.147	1.00	1	10/25/2019 22:50	WG1369955
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/25/2019 22:50	WG1369955
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/25/2019 22:50	WG1369955
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/25/2019 22:50	WG1369955
2,2-Dichloropropane	U		0.0929	0.500	1	10/25/2019 22:50	WG1369955
Di-isopropyl ether	U		0.0924	0.500	1	10/25/2019 22:50	WG1369955
Ethylbenzene	U		0.158	0.500	1	10/25/2019 22:50	WG1369955
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/25/2019 22:50	WG1369955
2-Hexanone	U		0.757	5.00	1	10/25/2019 22:50	WG1369955
n-Hexane	U		0.305	5.00	1	10/25/2019 22:50	WG1369955
Iodomethane	U		0.377	10.0	1	10/25/2019 22:50	WG1369955
Isopropylbenzene	U		0.126	0.500	1	10/25/2019 22:50	WG1369955
p-Isopropyltoluene	U		0.138	0.500	1	10/25/2019 22:50	WG1369955
2-Butanone (MEK)	U		1.28	5.00	1	10/25/2019 22:50	WG1369955
Methylene Chloride	U		1.07	2.50	1	10/25/2019 22:50	WG1369955
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/25/2019 22:50	WG1369955
Methyl tert-butyl ether	U		0.102	0.500	1	10/25/2019 22:50	WG1369955
Naphthalene	U		0.174	2.50	1	10/25/2019 22:50	WG1369955
n-Propylbenzene	U		0.162	0.500	1	10/25/2019 22:50	WG1369955
Styrene	U		0.117	0.500	1	10/25/2019 22:50	WG1369955
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/25/2019 22:50	WG1369955
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/25/2019 22:50	WG1369955
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/25/2019 22:50	WG1369955
Tetrachloroethene	41.7		0.199	0.500	1	10/25/2019 22:50	WG1369955
Toluene	0.572		0.412	0.500	1	10/25/2019 22:50	WG1369955
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/25/2019 22:50	WG1369955
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/25/2019 22:50	WG1369955
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/25/2019 22:50	WG1369955
1,1,2-Trichloroethane	U		0.186	0.500	1	10/25/2019 22:50	WG1369955
Trichloroethene	138		0.153	0.500	1	10/25/2019 22:50	WG1369955
Trichlorofluoromethane	U		0.130	2.50	1	10/25/2019 22:50	WG1369955
1,2,3-Trichloropropane	U		0.247	2.50	1	10/25/2019 22:50	WG1369955
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/25/2019 22:50	WG1369955
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/25/2019 22:50	WG1369955
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/25/2019 22:50	WG1369955

JC 12/2/2019

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/25/2019 22:50	WG1369955
Vinyl chloride	216		1.18	5.00	10	10/27/2019 15:29	WG1370146
Xylenes, Total	U		0.316	1.50	1	10/25/2019 22:50	WG1369955
(S) Toluene-d8	*111*			*80.0-120*		*10/25/2019 22:50*	WG1369955
(S) Toluene-d8	*95.1*			*80.0-120*		*10/27/2019 15:29*	WG1370146
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*10/25/2019 22:50*	WG1369955
(S) 4-Bromofluorobenzene	*92.2*			*77.0-126*		*10/27/2019 15:29*	WG1370146
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/25/2019 22:50*	WG1369955
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/27/2019 15:29*	WG1370146

JC 12/2/2019

MEMORANDUM

TO:	Project File	**DATE:**	December 9, 2019
FROM:	Jessie Compeau		
SUBJECT:	Laboratory Data Validation Review		
PROJECT:	American Linen Data Validation		
PROJECT #:	1413.001.02.501E		
TASK:	EIM Data Validation Level EPA2A for October 2019 – Groundwater Samples		
LAB:	Pace Sample Delivery Groups (SDGs): L1150936, L1151401, L1151886, and L1152333		

Twenty-one (21) groundwater samples (including one field duplicate), one (1) equipment blank, and four (4) trip blanks were collected as part of the Remedial Investigation (RI) sampling event at the Former American Linen Supply Site, in Seattle, Washington, October 16-18, and 21, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B.

The RI sampling was conducted during the month of October and results are reported in multiple SDGs from Pace. Pace SDGs are reviewed in groups of approximately 2-4 per each data validation report. Group 3 analytical results are reported in SDGs L1150936, L1151401, L1151886, and L1152333. The quality assurance review of the laboratory data associated with Group 3 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory

Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

NWTPH-Gx Method:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:
All samples were analyzed within the USEPA recommended holding time for iron and manganese of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however Pace’s notes indicate the following:

- SDGs L1150936, L1151401, L1151886, and L1152333 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for compounds associated with the trip blanks. The compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. No action is taken other than to note this.

- SDGs L1150936, L1151401, L1151886, and L1152333 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ) however in some cases blank contamination qualifiers may supersede these qualifiers. Refer to Method Blank and/or Trip Blank sections of this report for additional details.

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDGs L1150936 and L1151401 – Analytical batch WG1369955: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action is taken since this compound is not detected in the associated samples.

- SDGs L1150936 and L1151886 – Analytical batch WG1370189: Low levels of naphthalene and 1,2,3-trichlorobenzene are detected in the method blank. No action is taken since this compound is not detected in the associated samples.

- SDG L1151401 – Analytical batch WG1370146: Low levels of acetone, naphthalene and 1,2,3-trichlorobenzene are detected in the method blank. For sample MW-918-101719 no action is taken for acetone since analytical batch WG1369955 is associated with the acetone detection in this sample. No action is required for sample MW-120-101719 since acetone was not detected in sample. No action is taken for naphthalene and 1,2,3-trichlorobenzene compounds as these are not detected in the associated samples.

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1151401– Analytical batch WG1367716: A low level of gasoline is detected in the method blank. **Associated gasoline detection in sample MW-9-101719 is below the RDL and qualified as not detected (U).**

- SDG L1151401– Analytical batch WG1369652: A low level of gasoline is detected in the method blank. No action is taken since this compound is not detected in sample MW-120-101719.

- SDG L1152333– Analytical batch WG1373020: A low level of gasoline is detected in the method blank. **Associated gasoline detection in sample MW-112-102119 is below the RDL and qualified as not detected (U).**

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020B and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL. General chemistry and metal blank detections are shown below:

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1150936	WG1366946	SM2320B	Alkalinity as CaCO3, Total	3840	J	20000	ug/L	NO
L1150936	WG1364616	9056A	Chloride	112	J	1000	ug/L	NO
L1150936	WG1364616	9056A	Sulfate	80.2	J	5000	ug/L	NO
L1150936	WG1365383	9060A	TOC	666	J	1000	ug/L	NO
L1151401	WG1367736	SM2320B	Alkalinity as CaCO3, Total	4070	J	20000	ug/L	NO
L1151401	WG1367168	9060A	TOC	655	J	1000	ug/L	NO
L1151401	WG1366327	6020B	Manganese	1.67	J	5.00	ug/L	NO
L1151886	WG1368322	9060A	TOC	375	J	1000	ug/L	NO
L1151886	WG1366331	6020B	Manganese	0.390	J	5.00	ug/L	NO
L1152333	WG1368783	9060A	TOC	277	J	1000	ug/L	NO
L1152333	WG1370126	9060A	TOC	434	J	1000	ug/L	NO
L1152333	WG1368592	6020B	Manganese	0.346	J	5.00	ug/L	NO

Trip Blank Results

USEPA Method 8260C and NWTPH-Gx:
Four trip blanks were collected and submitted for analysis. The target analytes were not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1150936 – Analytical batch WG1370189: Low levels of acetone and trans-1,2-dichloroethene are detected in the trip blank. **Acetone is detected below the RDL in samples MW-155-101619, MW-142-101619, and MW-143-101619. Acetone detections are qualified as not detected (U). trans-1,2-Dichloroethene is detected below the RDL in samples MW-155-101619 and MW-142-101619. These detections are qualified as not detected (U).**

- SDG L1151401 – Analytical batch WG1369955: Low levels of acetone and carbon disulfide are detected in the trip blank. **Acetone is detected below the RDL in samples MW-918-101719, MW-156-101719, MW-160-101719, and MW-127-101719 and these results are qualified as not detected (U).** No action is required for carbon disulfide as it was not detected in the associated samples.

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:
One equipment blank (EQ-101619 from SDG L1150936) was collected and analyzed for VOCs, gasoline, dissolved gases (methane, ethane, and ethene), metals (iron and manganese), wet chemistry parameters (alkalinity, chloride, nitrate, sulfate, and TOC). Review of the equipment blank results are as follows:

- SDG L1150936: An equipment blank sample (EQ-101619) was collected on October 16, 2019 from the bladder pump associated with all samples in SDG L1150936. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:
    - Low levels of alkalinity, chloride, sulfate, TOC, iron, and manganese are detected in the equipment blank. No action was taken on this basis since associated detections are either above the RDL or are not detected.
    - Low levels of acetone and chloroform are detected in the equipment blank. **Acetone is detected below the RDL in samples MW-155-101619, MW-142-101619, and MW-143-101619 are qualified as not detected (U) due to blank contamination.** No action was taken for chloroform since it was not detected in the associated samples.

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1151401: Samples MW120-101719 and MW-918-101719

Target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 1x RDL for groundwater results <5X the RDL) for the field duplicate pair with the following exceptions:

- **SDG L1151401: Samples MW120-101719 and MW-918-101719 methane, and 1,2-dichloropropane RPD results are greater than 30% and qualified as estimated (J/UJ).**

Laboratory Duplicate Analyses

USEPA Method 8260C:

Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

NWTPH-Gx Method:
Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:
Laboratory duplicate samples were not analyzed. Refer to LCS/LCSD or MS/MSD results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits with the following discussions:

- SDG L1150936: Chloride laboratory duplicate was performed on a non-client sample within the analytical batch. RPD result is qualified (E) by the laboratory to indicate that the sample result exceeds the upper limit of the calibration curve. No action is taken other than to note that the laboratory performed more than one laboratory duplicate and precision results are acceptable.

- SDG L1151886: Chloride and sulfate laboratory duplicate analyses were performed on a non-client sample within the analytical batch. RPD result is qualified (E) by the laboratory to indicate that the sample result exceeds the upper limit of the calibration curve. No action is taken other than to note that the laboratory performed more than one laboratory duplicate and precision results are acceptable.

- SDG L1152333: Sulfate duplicate analysis was performed on a non-client sample with poor RPD result. No action is taken since the other batch QC laboratory duplicate result is within criteria.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all the analyses.

NWTPH-Gx Method:

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all analyses.

Laboratory Control Samples

USEPA Method 8260C:
Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD % Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussion:

- SDG L1152333 - Analytical batch WG1371177. LCS % recoveries for acetone, acrylonitrile, bromodichloromethane, and 1,1,1-trichloroethane recovery are above laboratory acceptance criteria and laboratory qualified (J4). Acetone and acrylonitrile LCS results are within recovery criteria and are incorrectly qualified (J4) by Pace. No action is taken other than to line out these qualifiers (J4) on the Form 1s and remove laboratory qualifications from the EDD results. No action is taken for bromodichloromethane, and 1,1,1-trichloroethane since these compounds are not detected in the associated samples.

NWTPH-Gx Method:
The LCS or LCS/LCSD % Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:
The LCS/LCSD % Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS results and field duplicate samples for accuracy and precision data.

NWTPH-Gx Method:
MS/MSD analyses were performed on a non-client sample. In cases where matrix spike analyses were not performed refer to LCS results and field duplicate samples for accuracy and precision data. The MS/MSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussion:

- SDG L1150936: Spike was performed on a non-client sample. MS/MSD RPD is qualified (J3) because it exceeded QC criteria. No action is taken on this basis.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
MS/MSD analyses were performed on non-client samples. In cases where matrix spike analyses were not performed refer to LCS results and field duplicate samples for accuracy and precision data. The MS/MSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions:

- SDG L1150936: MS/MSD analysis was performed on a non-client sample. MS/MSD non-client sample results for methane are qualified (V) by the laboratory to indicate that the sample concentration was far greater than the spike concentration. Refer to LCS/LCSD and laboratory duplicate results for accuracy and precision data.

- SDG L1151886: MS/MSD analyses was performed on a non-client sample. MS non-client sample results for methane are qualified (V) by the laboratory to indicate that the sample amount is greater than 4X the spike amount. In addition, ethene result is laboratory qualified (J5) due to matrix interference. Refer to LCS/LCSD and laboratory duplicate results for accuracy and precision data.

USEPA Method 6020B:
MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDG L1150936: The MS/MSD analyses were performed on client sample MW-155-101619. MS/MSD non-client sample results for sulfate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action is taken other than to note this. Refer to LCS and laboratory duplicate results for accuracy and precision data.

- SDG L1150936: MS analysis was performed on a non-client sample. MS non-client sample result for chloride is qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. Refer to LCS and laboratory duplicate results for accuracy and precision data.

- SDG L1151886: MS/MSD non-client sample results for chloride and sulfate are qualified (EV) by the laboratory to indicate that the spiked analyte concentrations exceeded the upper calibration range and sample amounts are greater than 4X the spike amount. Refer to LCS and laboratory duplicate results for accuracy and precision data.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

- Multiple SDGs: Selected sample narratives for alkalinity results indicate that several sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. No action is taken other than to note this with the following discussion:

- SDG L1151886: Sample W-MW-02-101819 NWTPH-Gx reporting limit is elevated due to a foamy sample matrix and necessary dilution (10X).

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

MW-155-101619

Collected date/time: 10/16/19 10:15

SAMPLE RESULTS - 01

L1150936

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	267000		2710	20000	1	10/22/2019 16:15	WG1366946

Sample Narrative:

L1150936-01 WG1366946: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	16100		51.9	1000	1	10/17/2019 16:54	WG1364616
Nitrate	4120		22.7	100	1	10/17/2019 16:54	WG1364616
Sulfate	94300		77.4	5000	1	10/17/2019 16:54	WG1364616

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3660	~~B~~	102	1000	1	10/18/2019 21:14	WG1365383

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	119		15.0	100	1	10/23/2019 14:11	WG1366325
Manganese	71.6		0.250	5.00	1	10/23/2019 14:11	WG1366325

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/19/2019 04:53	WG1365594
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*10/19/2019 04:53*	WG1365594

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	36.1		0.287	0.678	1	10/18/2019 11:50	WG1365164
Ethane	17.5		0.296	1.29	1	10/18/2019 11:50	WG1365164
Ethene	U		0.422	1.27	1	10/18/2019 11:50	WG1365164

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.06 U	~~J J0~~	1.05	25.0	1	10/25/2019 23:11	WG1369955
Acrylonitrile	U		0.873	5.00	1	10/25/2019 23:11	WG1369955
Benzene	U		0.0896	0.500	1	10/25/2019 23:11	WG1369955
Bromobenzene	U UJ	J0	0.133	0.500	1	10/25/2019 23:11	WG1369955
Bromodichloromethane	U		0.0800	0.500	1	10/25/2019 23:11	WG1369955
Bromochloromethane	U		0.145	0.500	1	10/25/2019 23:11	WG1369955
Bromoform	U		0.186	0.500	1	10/25/2019 23:11	WG1369955
Bromomethane	U		0.157	2.50	1	10/25/2019 23:11	WG1369955
n-Butylbenzene	U		0.143	0.500	1	10/25/2019 23:11	WG1369955
sec-Butylbenzene	U		0.134	0.500	1	10/25/2019 23:11	WG1369955
tert-Butylbenzene	U		0.183	0.500	1	10/25/2019 23:11	WG1369955
Carbon disulfide	U		0.101	0.500	1	10/25/2019 23:11	WG1369955
Carbon tetrachloride	U		0.159	0.500	1	10/25/2019 23:11	WG1369955

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MW-155-101619

Collected date/time: 10/16/19 10:15

SAMPLE RESULTS - 01

L1150936

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U			0.140	0.500	1	10/25/2019 23:11	WG1369955
Chlorodibromomethane	U			0.128	0.500	1	10/25/2019 23:11	WG1369955
Chloroethane	U			0.141	2.50	1	10/25/2019 23:11	WG1369955
Chloroform	U			0.0860	0.500	1	10/25/2019 23:11	WG1369955
Chloromethane	U	UJ	J0	0.153	1.25	1	10/25/2019 23:11	WG1369955
2-Chlorotoluene	U			0.111	0.500	1	10/25/2019 23:11	WG1369955
4-Chlorotoluene	U			0.0972	0.500	1	10/25/2019 23:11	WG1369955
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	10/25/2019 23:11	WG1369955
1,2-Dibromoethane	U			0.193	0.500	1	10/25/2019 23:11	WG1369955
Dibromomethane	U			0.117	0.500	1	10/25/2019 23:11	WG1369955
1,2-Dichlorobenzene	U			0.101	0.500	1	10/25/2019 23:11	WG1369955
1,3-Dichlorobenzene	U			0.130	0.500	1	10/25/2019 23:11	WG1369955
1,4-Dichlorobenzene	U			0.121	0.500	1	10/25/2019 23:11	WG1369955
Dichlorodifluoromethane	U			0.127	2.50	1	10/25/2019 23:11	WG1369955
1,1-Dichloroethane	U			0.114	0.500	1	10/25/2019 23:11	WG1369955
1,2-Dichloroethane	U			0.108	0.500	1	10/25/2019 23:11	WG1369955
1,1-Dichloroethene	U			0.188	0.500	1	10/25/2019 23:11	WG1369955
cis-1,2-Dichloroethene	36.2			0.0933	0.500	1	10/25/2019 23:11	WG1369955
trans-1,2-Dichloroethene	0.160	U	J	0.152	0.500	1	10/25/2019 23:11	WG1369955
1,2-Dichloropropane	U			0.190	0.500	1	10/25/2019 23:11	WG1369955
1,1-Dichloropropene	U			0.128	0.500	1	10/25/2019 23:11	WG1369955
1,3-Dichloropropane	U			0.147	1.00	1	10/25/2019 23:11	WG1369955
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/25/2019 23:11	WG1369955
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/25/2019 23:11	WG1369955
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.257	5.00	1	10/25/2019 23:11	WG1369955
2,2-Dichloropropane	U			0.0929	0.500	1	10/25/2019 23:11	WG1369955
Di-isopropyl ether	U			0.0924	0.500	1	10/25/2019 23:11	WG1369955
Ethylbenzene	U			0.158	0.500	1	10/25/2019 23:11	WG1369955
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/25/2019 23:11	WG1369955
2-Hexanone	U			0.757	5.00	1	10/25/2019 23:11	WG1369955
n-Hexane	U			0.305	5.00	1	10/25/2019 23:11	WG1369955
Iodomethane	U			0.377	10.0	1	10/25/2019 23:11	WG1369955
Isopropylbenzene	U			0.126	0.500	1	10/25/2019 23:11	WG1369955
p-Isopropyltoluene	U			0.138	0.500	1	10/25/2019 23:11	WG1369955
2-Butanone (MEK)	U			1.28	5.00	1	10/25/2019 23:11	WG1369955
Methylene Chloride	U			1.07	2.50	1	10/25/2019 23:11	WG1369955
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	10/25/2019 23:11	WG1369955
Methyl tert-butyl ether	U			0.102	0.500	1	10/25/2019 23:11	WG1369955
Naphthalene	U			0.174	2.50	1	10/25/2019 23:11	WG1369955
n-Propylbenzene	U			0.162	0.500	1	10/25/2019 23:11	WG1369955
Styrene	U			0.117	0.500	1	10/25/2019 23:11	WG1369955
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	10/25/2019 23:11	WG1369955
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	10/25/2019 23:11	WG1369955
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	10/25/2019 23:11	WG1369955
Tetrachloroethene	121			0.199	0.500	1	10/25/2019 23:11	WG1369955
Toluene	U			0.412	0.500	1	10/25/2019 23:11	WG1369955
1,2,3-Trichlorobenzene	U			0.164	0.500	1	10/25/2019 23:11	WG1369955
1,2,4-Trichlorobenzene	U			0.355	0.500	1	10/25/2019 23:11	WG1369955
1,1,1-Trichloroethane	U			0.0940	0.500	1	10/25/2019 23:11	WG1369955
1,1,2-Trichloroethane	U			0.186	0.500	1	10/25/2019 23:11	WG1369955
Trichloroethene	27.6			0.153	0.500	1	10/25/2019 23:11	WG1369955
Trichlorofluoromethane	U			0.130	2.50	1	10/25/2019 23:11	WG1369955
1,2,3-Trichloropropane	U			0.247	2.50	1	10/25/2019 23:11	WG1369955
1,2,4-Trimethylbenzene	U			0.123	0.500	1	10/25/2019 23:11	WG1369955
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	10/25/2019 23:11	WG1369955
1,3,5-Trimethylbenzene	U			0.124	0.500	1	10/25/2019 23:11	WG1369955

12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/25/2019 23:11	WG1369955
Vinyl chloride	U		0.118	0.500	1	10/25/2019 23:11	WG1369955
Xylenes, Total	U		0.316	1.50	1	10/25/2019 23:11	WG1369955
(S) Toluene-d8	*110*			*80.0-120*		*10/25/2019 23:11*	WG1369955
(S) 4-Bromofluorobenzene	*113*			*77.0-126*		*10/25/2019 23:11*	WG1369955
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/25/2019 23:11*	WG1369955

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	327000		2710	20000	1	10/22/2019 16:21	WG1366946

Sample Narrative:

L1150936-02 WG1366946: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	24500		51.9	1000	1	10/17/2019 17:58	WG1364616
Nitrate	33.0	J	22.7	100	1	10/17/2019 17:58	WG1364616
Sulfate	20400		77.4	5000	1	10/17/2019 17:58	WG1364616

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4460	~~B~~	102	1000	1	10/18/2019 22:18	WG1365383

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5460		15.0	100	1	10/23/2019 14:47	WG1366325
Manganese	350		0.250	5.00	1	10/23/2019 14:47	WG1366325

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/19/2019 05:17	WG1365594
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/19/2019 05:17*	WG1365594

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	115		0.287	0.678	1	10/18/2019 11:52	WG1365164
Ethane	20.1		0.296	1.29	1	10/18/2019 11:52	WG1365164
Ethene	7.24		0.422	1.27	1	10/18/2019 11:52	WG1365164

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U	UJ	J0	1.05	25.0	1	10/25/2019 23:31	WG1369955	
Acrylonitrile	U			0.873	5.00	1	10/25/2019 23:31	WG1369955	12/9/19
Benzene	U			0.0896	0.500	1	10/25/2019 23:31	WG1369955	
Bromobenzene	U	UJ	J0	0.133	0.500	1	10/25/2019 23:31	WG1369955	
Bromodichloromethane	U			0.0800	0.500	1	10/25/2019 23:31	WG1369955	
Bromochloromethane	U			0.145	0.500	1	10/25/2019 23:31	WG1369955	
Bromoform	U			0.186	0.500	1	10/25/2019 23:31	WG1369955	
Bromomethane	U			0.157	2.50	1	10/25/2019 23:31	WG1369955	
n-Butylbenzene	U			0.143	0.500	1	10/25/2019 23:31	WG1369955	
sec-Butylbenzene	U			0.134	0.500	1	10/25/2019 23:31	WG1369955	
tert-Butylbenzene	U			0.183	0.500	1	10/25/2019 23:31	WG1369955	
Carbon disulfide	U			0.101	0.500	1	10/25/2019 23:31	WG1369955	
Carbon tetrachloride	U			0.159	0.500	1	10/25/2019 23:31	WG1369955	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/25/2019 23:31	WG1369955
Chlorodibromomethane	U		0.128	0.500	1	10/25/2019 23:31	WG1369955
Chloroethane	U		0.141	2.50	1	10/25/2019 23:31	WG1369955
Chloroform	U		0.0860	0.500	1	10/25/2019 23:31	WG1369955
Chloromethane	U UJ	J0	0.153	1.25	1	10/25/2019 23:31	WG1369955
2-Chlorotoluene	U		0.111	0.500	1	10/25/2019 23:31	WG1369955
4-Chlorotoluene	U		0.0972	0.500	1	10/25/2019 23:31	WG1369955
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/25/2019 23:31	WG1369955
1,2-Dibromoethane	U		0.193	0.500	1	10/25/2019 23:31	WG1369955
Dibromomethane	U		0.117	0.500	1	10/25/2019 23:31	WG1369955
1,2-Dichlorobenzene	U		0.101	0.500	1	10/25/2019 23:31	WG1369955
1,3-Dichlorobenzene	U		0.130	0.500	1	10/25/2019 23:31	WG1369955
1,4-Dichlorobenzene	U		0.121	0.500	1	10/25/2019 23:31	WG1369955
Dichlorodifluoromethane	U		0.127	2.50	1	10/25/2019 23:31	WG1369955
1,1-Dichloroethane	U		0.114	0.500	1	10/25/2019 23:31	WG1369955
1,2-Dichloroethane	U		0.108	0.500	1	10/25/2019 23:31	WG1369955
1,1-Dichloroethene	U		0.188	0.500	1	10/25/2019 23:31	WG1369955
cis-1,2-Dichloroethene	0.848		0.0933	0.500	1	10/25/2019 23:31	WG1369955
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/25/2019 23:31	WG1369955
1,2-Dichloropropane	U		0.190	0.500	1	10/25/2019 23:31	WG1369955
1,1-Dichloropropene	U		0.128	0.500	1	10/25/2019 23:31	WG1369955
1,3-Dichloropropane	U		0.147	1.00	1	10/25/2019 23:31	WG1369955
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/25/2019 23:31	WG1369955
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/25/2019 23:31	WG1369955
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/25/2019 23:31	WG1369955
2,2-Dichloropropane	U		0.0929	0.500	1	10/25/2019 23:31	WG1369955
Di-isopropyl ether	U		0.0924	0.500	1	10/25/2019 23:31	WG1369955
Ethylbenzene	U		0.158	0.500	1	10/25/2019 23:31	WG1369955
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/25/2019 23:31	WG1369955
2-Hexanone	U		0.757	5.00	1	10/25/2019 23:31	WG1369955
n-Hexane	U		0.305	5.00	1	10/25/2019 23:31	WG1369955
Iodomethane	U		0.377	10.0	1	10/25/2019 23:31	WG1369955
Isopropylbenzene	U		0.126	0.500	1	10/25/2019 23:31	WG1369955
p-Isopropyltoluene	U		0.138	0.500	1	10/25/2019 23:31	WG1369955
2-Butanone (MEK)	U		1.28	5.00	1	10/25/2019 23:31	WG1369955
Methylene Chloride	U		1.07	2.50	1	10/25/2019 23:31	WG1369955
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/25/2019 23:31	WG1369955
Methyl tert-butyl ether	U		0.102	0.500	1	10/25/2019 23:31	WG1369955
Naphthalene	U		0.174	2.50	1	10/25/2019 23:31	WG1369955
n-Propylbenzene	U		0.162	0.500	1	10/25/2019 23:31	WG1369955
Styrene	U		0.117	0.500	1	10/25/2019 23:31	WG1369955
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/25/2019 23:31	WG1369955
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/25/2019 23:31	WG1369955
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/25/2019 23:31	WG1369955
Tetrachloroethene	U		0.199	0.500	1	10/25/2019 23:31	WG1369955
Toluene	U		0.412	0.500	1	10/25/2019 23:31	WG1369955
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/25/2019 23:31	WG1369955
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/25/2019 23:31	WG1369955
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/25/2019 23:31	WG1369955
1,1,2-Trichloroethane	U		0.186	0.500	1	10/25/2019 23:31	WG1369955
Trichloroethene	0.318	J	0.153	0.500	1	10/25/2019 23:31	WG1369955
Trichlorofluoromethane	U		0.130	2.50	1	10/25/2019 23:31	WG1369955
1,2,3-Trichloropropane	U		0.247	2.50	1	10/25/2019 23:31	WG1369955
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/25/2019 23:31	WG1369955
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/25/2019 23:31	WG1369955
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/25/2019 23:31	WG1369955

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/25/2019 23:31	WG1369955
Vinyl chloride	2.18		0.118	0.500	1	10/25/2019 23:31	WG1369955
Xylenes, Total	U		0.316	1.50	1	10/25/2019 23:31	WG1369955
(S) Toluene-d8	*110*			*80.0-120*		*10/25/2019 23:31*	WG1369955
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*10/25/2019 23:31*	WG1369955
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/25/2019 23:31*	WG1369955

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	812000		2710	20000	1	10/22/2019 16:38	WG1366946

Sample Narrative:

L1150936-03 WG1366946: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	14900		51.9	1000	1	10/17/2019 18:11	WG1364616
Nitrate	U		22.7	100	1	10/17/2019 18:11	WG1364616
Sulfate	15900		77.4	5000	1	10/17/2019 18:11	WG1364616

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4760	~~B~~	102	1000	1	10/18/2019 22:37	WG1365383

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5400		15.0	100	1	10/23/2019 14:51	WG1366325
Manganese	3440		0.250	5.00	1	10/23/2019 14:51	WG1366325

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/19/2019 05:41	WG1365594
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*10/19/2019 05:41*	WG1365594

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	766		0.287	0.678	1	10/18/2019 11:54	WG1365164
Ethane	47.8		0.296	1.29	1	10/18/2019 11:54	WG1365164
Ethene	U		0.422	1.27	1	10/18/2019 11:54	WG1365164

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	1.46	U J J0	1.05	25.0	1	10/25/2019 23:51	WG1369955	
Acrylonitrile	U		0.873	5.00	1	10/25/2019 23:51	WG1369955	12/9/19
Benzene	0.380	J	0.0896	0.500	1	10/25/2019 23:51	WG1369955	
Bromobenzene	U	UJ J0	0.133	0.500	1	10/25/2019 23:51	WG1369955	
Bromodichloromethane	U		0.0800	0.500	1	10/25/2019 23:51	WG1369955	
Bromochloromethane	U		0.145	0.500	1	10/25/2019 23:51	WG1369955	
Bromoform	U		0.186	0.500	1	10/25/2019 23:51	WG1369955	
Bromomethane	U		0.157	2.50	1	10/25/2019 23:51	WG1369955	
n-Butylbenzene	U		0.143	0.500	1	10/25/2019 23:51	WG1369955	
sec-Butylbenzene	U		0.134	0.500	1	10/25/2019 23:51	WG1369955	
tert-Butylbenzene	U		0.183	0.500	1	10/25/2019 23:51	WG1369955	
Carbon disulfide	U		0.101	0.500	1	10/25/2019 23:51	WG1369955	
Carbon tetrachloride	U		0.159	0.500	1	10/25/2019 23:51	WG1369955	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	10/25/2019 23:51	WG1369955	
Chlorodibromomethane	U		0.128	0.500	1	10/25/2019 23:51	WG1369955	
Chloroethane	U		0.141	2.50	1	10/25/2019 23:51	WG1369955	
Chloroform	U		0.0860	0.500	1	10/25/2019 23:51	WG1369955	
Chloromethane	U UJ	J0	0.153	1.25	1	10/25/2019 23:51	WG1369955	
2-Chlorotoluene	U		0.111	0.500	1	10/25/2019 23:51	WG1369955	
4-Chlorotoluene	U		0.0972	0.500	1	10/25/2019 23:51	WG1369955	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/25/2019 23:51	WG1369955	
1,2-Dibromoethane	U		0.193	0.500	1	10/25/2019 23:51	WG1369955	
Dibromomethane	U		0.117	0.500	1	10/25/2019 23:51	WG1369955	
1,2-Dichlorobenzene	U		0.101	0.500	1	10/25/2019 23:51	WG1369955	
1,3-Dichlorobenzene	U		0.130	0.500	1	10/25/2019 23:51	WG1369955	
1,4-Dichlorobenzene	U		0.121	0.500	1	10/25/2019 23:51	WG1369955	
Dichlorodifluoromethane	U		0.127	2.50	1	10/25/2019 23:51	WG1369955	
1,1-Dichloroethane	U		0.114	0.500	1	10/25/2019 23:51	WG1369955	
1,2-Dichloroethane	U		0.108	0.500	1	10/25/2019 23:51	WG1369955	
1,1-Dichloroethene	U		0.188	0.500	1	10/25/2019 23:51	WG1369955	
cis-1,2-Dichloroethene	50.4		0.0933	0.500	1	10/25/2019 23:51	WG1369955	
trans-1,2-Dichloroethene	0.282 U	J	0.152	0.500	1	10/25/2019 23:51	WG1369955	
1,2-Dichloropropane	U		0.190	0.500	1	10/25/2019 23:51	WG1369955	
1,1-Dichloropropene	U		0.128	0.500	1	10/25/2019 23:51	WG1369955	
1,3-Dichloropropane	U		0.147	1.00	1	10/25/2019 23:51	WG1369955	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/25/2019 23:51	WG1369955	
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/25/2019 23:51	WG1369955	
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/25/2019 23:51	WG1369955	
2,2-Dichloropropane	U		0.0929	0.500	1	10/25/2019 23:51	WG1369955	
Di-isopropyl ether	U		0.0924	0.500	1	10/25/2019 23:51	WG1369955	
Ethylbenzene	U		0.158	0.500	1	10/25/2019 23:51	WG1369955	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/25/2019 23:51	WG1369955	
2-Hexanone	U		0.757	5.00	1	10/25/2019 23:51	WG1369955	
n-Hexane	U		0.305	5.00	1	10/25/2019 23:51	WG1369955	
Iodomethane	U		0.377	10.0	1	10/25/2019 23:51	WG1369955	
Isopropylbenzene	U		0.126	0.500	1	10/25/2019 23:51	WG1369955	
p-Isopropyltoluene	U		0.138	0.500	1	10/25/2019 23:51	WG1369955	
2-Butanone (MEK)	U		1.28	5.00	1	10/25/2019 23:51	WG1369955	
Methylene Chloride	U		1.07	2.50	1	10/25/2019 23:51	WG1369955	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/25/2019 23:51	WG1369955	12/9/19
Methyl tert-butyl ether	U		0.102	0.500	1	10/25/2019 23:51	WG1369955	
Naphthalene	U		0.174	2.50	1	10/25/2019 23:51	WG1369955	
n-Propylbenzene	U		0.162	0.500	1	10/25/2019 23:51	WG1369955	
Styrene	U		0.117	0.500	1	10/25/2019 23:51	WG1369955	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/25/2019 23:51	WG1369955	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/25/2019 23:51	WG1369955	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/25/2019 23:51	WG1369955	
Tetrachloroethene	U		0.199	0.500	1	10/25/2019 23:51	WG1369955	
Toluene	U		0.412	0.500	1	10/25/2019 23:51	WG1369955	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/25/2019 23:51	WG1369955	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/25/2019 23:51	WG1369955	
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/25/2019 23:51	WG1369955	
1,1,2-Trichloroethane	U		0.186	0.500	1	10/25/2019 23:51	WG1369955	
Trichloroethene	0.360	J	0.153	0.500	1	10/25/2019 23:51	WG1369955	
Trichlorofluoromethane	U		0.130	2.50	1	10/25/2019 23:51	WG1369955	
1,2,3-Trichloropropane	U		0.247	2.50	1	10/25/2019 23:51	WG1369955	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/25/2019 23:51	WG1369955	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/25/2019 23:51	WG1369955	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/25/2019 23:51	WG1369955	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/25/2019 23:51	WG1369955
Vinyl chloride	11.3		0.118	0.500	1	10/25/2019 23:51	WG1369955
Xylenes, Total	U		0.316	1.50	1	10/25/2019 23:51	WG1369955
(S) Toluene-d8	*112*			*80.0-120*		*10/25/2019 23:51*	WG1369955
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*10/25/2019 23:51*	WG1369955
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/25/2019 23:51*	WG1369955

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	163000		2710	20000	1	10/22/2019 16:45	WG1366946

Sample Narrative:

L1150936-04 WG1366946: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	18000		51.9	1000	1	10/17/2019 18:23	WG1364616
Nitrate	32.6	J	22.7	100	1	10/17/2019 18:23	WG1364616
Sulfate	198000		387	25000	5	10/17/2019 18:36	WG1364616

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4480	~~B~~	102	1000	1	10/19/2019 00:24	WG1365383

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2240		15.0	100	1	10/23/2019 14:54	WG1366325
Manganese	498		0.250	5.00	1	10/23/2019 14:54	WG1366325

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/19/2019 06:05	WG1365594
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*10/19/2019 06:05*	WG1365594

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2050		0.287	0.678	1	10/18/2019 11:57	WG1365164
Ethane	6.03		0.296	1.29	1	10/18/2019 11:57	WG1365164
Ethene	U		0.422	1.27	1	10/18/2019 11:57	WG1365164

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ J0	1.05	25.0	1	10/26/2019 00:12	WG1369955
Acrylonitrile	U		0.873	5.00	1	10/26/2019 00:12	WG1369955
Benzene	U		0.0896	0.500	1	10/26/2019 00:12	WG1369955
Bromobenzene	U	UJ J0	0.133	0.500	1	10/26/2019 00:12	WG1369955
Bromodichloromethane	U		0.0800	0.500	1	10/26/2019 00:12	WG1369955
Bromochloromethane	U		0.145	0.500	1	10/26/2019 00:12	WG1369955
Bromoform	U		0.186	0.500	1	10/26/2019 00:12	WG1369955
Bromomethane	U		0.157	2.50	1	10/26/2019 00:12	WG1369955
n-Butylbenzene	U		0.143	0.500	1	10/26/2019 00:12	WG1369955
sec-Butylbenzene	U		0.134	0.500	1	10/26/2019 00:12	WG1369955
tert-Butylbenzene	U		0.183	0.500	1	10/26/2019 00:12	WG1369955
Carbon disulfide	U		0.101	0.500	1	10/26/2019 00:12	WG1369955
Carbon tetrachloride	U		0.159	0.500	1	10/26/2019 00:12	WG1369955

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/26/2019 00:12	WG1369955
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 00:12	WG1369955
Chloroethane	U		0.141	2.50	1	10/26/2019 00:12	WG1369955
Chloroform	U		0.0860	0.500	1	10/26/2019 00:12	WG1369955
Chloromethane	U	UJ J0	0.153	1.25	1	10/26/2019 00:12	WG1369955
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 00:12	WG1369955
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 00:12	WG1369955
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 00:12	WG1369955
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 00:12	WG1369955
Dibromomethane	U		0.117	0.500	1	10/26/2019 00:12	WG1369955
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 00:12	WG1369955
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 00:12	WG1369955
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 00:12	WG1369955
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 00:12	WG1369955
1,1-Dichloroethane	U		0.114	0.500	1	10/26/2019 00:12	WG1369955
1,2-Dichloroethane	U		0.108	0.500	1	10/26/2019 00:12	WG1369955
1,1-Dichloroethene	U		0.188	0.500	1	10/26/2019 00:12	WG1369955
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/26/2019 00:12	WG1369955
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/26/2019 00:12	WG1369955
1,2-Dichloropropane	U		0.190	0.500	1	10/26/2019 00:12	WG1369955
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 00:12	WG1369955
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 00:12	WG1369955
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 00:12	WG1369955
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 00:12	WG1369955
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/26/2019 00:12	WG1369955
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 00:12	WG1369955
Di-isopropyl ether	U		0.0924	0.500	1	10/26/2019 00:12	WG1369955
Ethylbenzene	U		0.158	0.500	1	10/26/2019 00:12	WG1369955
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 00:12	WG1369955
2-Hexanone	U		0.757	5.00	1	10/26/2019 00:12	WG1369955
n-Hexane	U		0.305	5.00	1	10/26/2019 00:12	WG1369955
Iodomethane	U		0.377	10.0	1	10/26/2019 00:12	WG1369955
Isopropylbenzene	U		0.126	0.500	1	10/26/2019 00:12	WG1369955
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 00:12	WG1369955
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 00:12	WG1369955
Methylene Chloride	U		1.07	2.50	1	10/26/2019 00:12	WG1369955
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 00:12	WG1369955
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 00:12	WG1369955
Naphthalene	U		0.174	2.50	1	10/26/2019 00:12	WG1369955
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 00:12	WG1369955
Styrene	U		0.117	0.500	1	10/26/2019 00:12	WG1369955
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 00:12	WG1369955
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 00:12	WG1369955
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/26/2019 00:12	WG1369955
Tetrachloroethene	U		0.199	0.500	1	10/26/2019 00:12	WG1369955
Toluene	U		0.412	0.500	1	10/26/2019 00:12	WG1369955
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 00:12	WG1369955
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 00:12	WG1369955
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/26/2019 00:12	WG1369955
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 00:12	WG1369955
Trichloroethene	U		0.153	0.500	1	10/26/2019 00:12	WG1369955
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 00:12	WG1369955
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 00:12	WG1369955
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 00:12	WG1369955
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 00:12	WG1369955
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 00:12	WG1369955

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MW-148-101619
Collected date/time: 10/16/19 12:05

SAMPLE RESULTS - 04

L1150936

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	10/26/2019 00:12	WG1369955
Vinyl chloride	0.463	J	0.118	0.500	1	10/26/2019 00:12	WG1369955
Xylenes, Total	U		0.316	1.50	1	10/26/2019 00:12	WG1369955
(S) Toluene-d8	*110*			*80.0-120*		*10/26/2019 00:12*	WG1369955
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*10/26/2019 00:12*	WG1369955
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/26/2019 00:12*	WG1369955

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

12/9/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	408000		2710	20000	1	10/22/2019 17:03	WG1366946

Sample Narrative:

L1150936-06 WG1366946: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	22800		51.9	1000	1	10/17/2019 19:02	WG1364616
Nitrate	441		22.7	100	1	10/17/2019 19:02	WG1364616
Sulfate	5720		77.4	5000	1	10/17/2019 19:02	WG1364616

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7170		102	1000	1	10/19/2019 01:45	WG1365383

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1680		15.0	100	1	10/23/2019 15:02	WG1366325
Manganese	403		0.250	5.00	1	10/23/2019 15:02	WG1366325

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/19/2019 06:53	WG1365594
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/19/2019 06:53*	WG1365594

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	4670		0.287	0.678	1	10/18/2019 12:04	WG1365164
Ethane	78.6		0.296	1.29	1	10/18/2019 12:04	WG1365164
Ethene	U		0.422	1.27	1	10/18/2019 12:04	WG1365164

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U UJ	J0	1.05	25.0	1	10/26/2019 00:52	WG1369955
Acrylonitrile	U		0.873	5.00	1	10/26/2019 00:52	WG1369955
Benzene	U		0.0896	0.500	1	10/26/2019 00:52	WG1369955
Bromobenzene	U UJ	J0	0.133	0.500	1	10/26/2019 00:52	WG1369955
Bromodichloromethane	U		0.0800	0.500	1	10/26/2019 00:52	WG1369955
Bromochloromethane	U		0.145	0.500	1	10/26/2019 00:52	WG1369955
Bromoform	U		0.186	0.500	1	10/26/2019 00:52	WG1369955
Bromomethane	U		0.157	2.50	1	10/26/2019 00:52	WG1369955
n-Butylbenzene	U		0.143	0.500	1	10/26/2019 00:52	WG1369955
sec-Butylbenzene	U		0.134	0.500	1	10/26/2019 00:52	WG1369955
tert-Butylbenzene	U		0.183	0.500	1	10/26/2019 00:52	WG1369955
Carbon disulfide	U		0.101	0.500	1	10/26/2019 00:52	WG1369955
Carbon tetrachloride	U		0.159	0.500	1	10/26/2019 00:52	WG1369955

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MW-157-101619

Collected date/time: 10/16/19 13:38

SAMPLE RESULTS - 06

L1150936

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/26/2019 00:52	WG1369955
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 00:52	WG1369955
Chloroethane	U		0.141	2.50	1	10/26/2019 00:52	WG1369955
Chloroform	U		0.0860	0.500	1	10/26/2019 00:52	WG1369955
Chloromethane	U UJ	J0	0.153	1.25	1	10/26/2019 00:52	WG1369955
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 00:52	WG1369955
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 00:52	WG1369955
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 00:52	WG1369955
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 00:52	WG1369955
Dibromomethane	U		0.117	0.500	1	10/26/2019 00:52	WG1369955
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 00:52	WG1369955
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 00:52	WG1369955
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 00:52	WG1369955
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 00:52	WG1369955
1,1-Dichloroethane	U		0.114	0.500	1	10/26/2019 00:52	WG1369955
1,2-Dichloroethane	U		0.108	0.500	1	10/26/2019 00:52	WG1369955
1,1-Dichloroethene	U		0.188	0.500	1	10/26/2019 00:52	WG1369955
cis-1,2-Dichloroethene	0.188	J	0.0933	0.500	1	10/26/2019 00:52	WG1369955
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/26/2019 00:52	WG1369955
1,2-Dichloropropane	U		0.190	0.500	1	10/26/2019 00:52	WG1369955
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 00:52	WG1369955
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 00:52	WG1369955
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 00:52	WG1369955
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 00:52	WG1369955
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/26/2019 00:52	WG1369955
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 00:52	WG1369955
Di-isopropyl ether	U		0.0924	0.500	1	10/26/2019 00:52	WG1369955
Ethylbenzene	U		0.158	0.500	1	10/26/2019 00:52	WG1369955
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 00:52	WG1369955
2-Hexanone	U		0.757	5.00	1	10/26/2019 00:52	WG1369955
n-Hexane	U		0.305	5.00	1	10/26/2019 00:52	WG1369955
Iodomethane	U		0.377	10.0	1	10/26/2019 00:52	WG1369955
Isopropylbenzene	U		0.126	0.500	1	10/26/2019 00:52	WG1369955
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 00:52	WG1369955
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 00:52	WG1369955
Methylene Chloride	U		1.07	2.50	1	10/26/2019 00:52	WG1369955
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 00:52	WG1369955
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 00:52	WG1369955
Naphthalene	U		0.174	2.50	1	10/26/2019 00:52	WG1369955
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 00:52	WG1369955
Styrene	0.141	J	0.117	0.500	1	10/26/2019 00:52	WG1369955
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 00:52	WG1369955
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 00:52	WG1369955
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/26/2019 00:52	WG1369955
Tetrachloroethene	U		0.199	0.500	1	10/26/2019 00:52	WG1369955
Toluene	0.561		0.412	0.500	1	10/26/2019 00:52	WG1369955
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 00:52	WG1369955
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 00:52	WG1369955
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/26/2019 00:52	WG1369955
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 00:52	WG1369955
Trichloroethene	U		0.153	0.500	1	10/26/2019 00:52	WG1369955
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 00:52	WG1369955
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 00:52	WG1369955
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 00:52	WG1369955
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 00:52	WG1369955
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 00:52	WG1369955

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/26/2019 00:52	WG1369955
Vinyl chloride	U		0.118	0.500	1	10/26/2019 00:52	WG1369955
Xylenes, Total	U		0.316	1.50	1	10/26/2019 00:52	WG1369955
(S) Toluene-d8	*112*			*80.0-120*		*10/26/2019 00:52*	WG1369955
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*10/26/2019 00:52*	WG1369955
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/26/2019 00:52*	WG1369955

12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	518000		2710	20000	1	10/22/2019 17:10	WG1366946

Sample Narrative:

L1150936-07 WG1366946: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	35800		51.9	1000	1	10/17/2019 19:14	WG1364616
Nitrate	U		22.7	100	1	10/17/2019 19:14	WG1364616
Sulfate	67700		77.4	5000	1	10/17/2019 19:14	WG1364616

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	20900		102	1000	1	10/19/2019 02:08	WG1365383

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	8540		15.0	100	1	10/23/2019 15:05	WG1366325
Manganese	2090		0.250	5.00	1	10/23/2019 15:05	WG1366325

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2000		31.6	100	1	10/19/2019 07:17	WG1365594
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/19/2019 07:17*	WG1365594

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	5780		0.287	0.678	1	10/18/2019 13:25	WG1365165
Ethane	62.6		0.296	1.29	1	10/18/2019 13:25	WG1365165
Ethene	110		0.422	1.27	1	10/18/2019 13:25	WG1365165

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	1.18	U	J J0	1.05	25.0	1	10/26/2019 01:13	WG1369955	
Acrylonitrile	U			0.873	5.00	1	10/26/2019 01:13	WG1369955	
Benzene	0.211		J	0.0896	0.500	1	10/26/2019 01:13	WG1369955	
Bromobenzene	U	UJ	J0	0.133	0.500	1	10/26/2019 01:13	WG1369955	
Bromodichloromethane	U			0.0800	0.500	1	10/26/2019 01:13	WG1369955	
Bromochloromethane	U			0.145	0.500	1	10/26/2019 01:13	WG1369955	
Bromoform	U			0.186	0.500	1	10/26/2019 01:13	WG1369955	
Bromomethane	U			0.157	2.50	1	10/26/2019 01:13	WG1369955	
n-Butylbenzene	U			0.143	0.500	1	10/26/2019 01:13	WG1369955	
sec-Butylbenzene	U			0.134	0.500	1	10/26/2019 01:13	WG1369955	
tert-Butylbenzene	U			0.183	0.500	1	10/26/2019 01:13	WG1369955	JC 12/9/19
Carbon disulfide	U			0.101	0.500	1	10/26/2019 01:13	WG1369955	
Carbon tetrachloride	U			0.159	0.500	1	10/26/2019 01:13	WG1369955	

SAMPLE RESULTS - 07

L1150936

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/26/2019 01:13	WG1369955
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 01:13	WG1369955
Chloroethane	U		0.141	2.50	1	10/26/2019 01:13	WG1369955
Chloroform	U		0.0860	0.500	1	10/26/2019 01:13	WG1369955
Chloromethane	U	UJ J0	0.153	1.25	1	10/26/2019 01:13	WG1369955
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 01:13	WG1369955
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 01:13	WG1369955
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 01:13	WG1369955
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 01:13	WG1369955
Dibromomethane	U		0.117	0.500	1	10/26/2019 01:13	WG1369955
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 01:13	WG1369955
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 01:13	WG1369955
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 01:13	WG1369955
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 01:13	WG1369955
1,1-Dichloroethane	U		0.114	0.500	1	10/26/2019 01:13	WG1369955
1,2-Dichloroethane	U		0.108	0.500	1	10/26/2019 01:13	WG1369955
1,1-Dichloroethene	8.47		0.188	0.500	1	10/26/2019 01:13	WG1369955
cis-1,2-Dichloroethene	2510		18.7	100	200	10/27/2019 15:49	WG1370146
trans-1,2-Dichloroethene	11.0		0.152	0.500	1	10/26/2019 01:13	WG1369955
1,2-Dichloropropane	U		0.190	0.500	1	10/26/2019 01:13	WG1369955
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 01:13	WG1369955
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 01:13	WG1369955
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 01:13	WG1369955
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 01:13	WG1369955
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/26/2019 01:13	WG1369955
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 01:13	WG1369955
Di-isopropyl ether	U		0.0924	0.500	1	10/26/2019 01:13	WG1369955
Ethylbenzene	U		0.158	0.500	1	10/26/2019 01:13	WG1369955
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 01:13	WG1369955
2-Hexanone	U		0.757	5.00	1	10/26/2019 01:13	WG1369955
n-Hexane	U		0.305	5.00	1	10/26/2019 01:13	WG1369955
Iodomethane	U		0.377	10.0	1	10/26/2019 01:13	WG1369955
Isopropylbenzene	U		0.126	0.500	1	10/26/2019 01:13	WG1369955
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 01:13	WG1369955
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 01:13	WG1369955
Methylene Chloride	U		1.07	2.50	1	10/26/2019 01:13	WG1369955
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 01:13	WG1369955
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 01:13	WG1369955
Naphthalene	U		0.174	2.50	1	10/26/2019 01:13	WG1369955
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 01:13	WG1369955
Styrene	U		0.117	0.500	1	10/26/2019 01:13	WG1369955
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 01:13	WG1369955
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 01:13	WG1369955
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/26/2019 01:13	WG1369955
Tetrachloroethene	2.35		0.199	0.500	1	10/26/2019 01:13	WG1369955
Toluene	U		0.412	0.500	1	10/26/2019 01:13	WG1369955
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 01:13	WG1369955
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 01:13	WG1369955
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/26/2019 01:13	WG1369955
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 01:13	WG1369955
Trichloroethene	28.0		0.153	0.500	1	10/26/2019 01:13	WG1369955
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 01:13	WG1369955
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 01:13	WG1369955
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 01:13	WG1369955
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 01:13	WG1369955
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 01:13	WG1369955

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/26/2019 01:13	WG1369955
Vinyl chloride	1180		23.6	100	200	10/27/2019 15:49	WG1370146
Xylenes, Total	U		0.316	1.50	1	10/26/2019 01:13	WG1369955
(S) Toluene-d8	*111*			*80.0-120*		*10/26/2019 01:13*	WG1369955
(S) Toluene-d8	*94.2*			*80.0-120*		*10/27/2019 15:49*	WG1370146
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*10/26/2019 01:13*	WG1369955
(S) 4-Bromofluorobenzene	*92.6*			*77.0-126*		*10/27/2019 15:49*	WG1370146
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/26/2019 01:13*	WG1369955
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/27/2019 15:49*	WG1370146

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	264000		2710	20000	1	10/23/2019 19:22	WG1367736

Sample Narrative:

L1151401-01 WG1367736: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	22000		51.9	1000	1	10/18/2019 18:09	WG1365245
Nitrate	473		22.7	100	1	10/18/2019 18:09	WG1365245
Sulfate	120000		387	25000	5	10/19/2019 09:09	WG1365245

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3680	~~B~~	102	1000	1	10/22/2019 18:09	WG1367168

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	930		15.0	100	1	10/23/2019 09:24	WG1366327
Manganese	637		0.250	5.00	1	10/23/2019 09:24	WG1366327

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	113	~~B~~	31.6	100	1	10/23/2019 17:20	WG1367716
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*10/23/2019 17:20*	WG1367716

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	43.9 J		0.287	0.678	1	10/22/2019 05:44	WG1366961
Ethane	U		0.296	1.29	1	10/22/2019 05:44	WG1366961
Ethene	U		0.422	1.27	1	10/22/2019 05:44	WG1366961

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.20 U	J J0	1.05	25.0	1	10/26/2019 01:33	WG1369955
Acrylonitrile	U		0.873	5.00	1	10/26/2019 01:33	WG1369955
Benzene	U		0.0896	0.500	1	10/26/2019 01:33	WG1369955
Bromobenzene	U UJ	J0	0.133	0.500	1	10/26/2019 01:33	WG1369955
Bromodichloromethane	U		0.0800	0.500	1	10/26/2019 01:33	WG1369955
Bromochloromethane	U		0.145	0.500	1	10/26/2019 01:33	WG1369955
Bromoform	U		0.186	0.500	1	10/26/2019 01:33	WG1369955
Bromomethane	U		0.157	2.50	1	10/26/2019 01:33	WG1369955
n-Butylbenzene	U		0.143	0.500	1	10/26/2019 01:33	WG1369955
sec-Butylbenzene	U		0.134	0.500	1	10/26/2019 01:33	WG1369955
tert-Butylbenzene	U		0.183	0.500	1	10/26/2019 01:33	WG1369955
Carbon disulfide	U		0.101	0.500	1	10/26/2019 01:33	WG1369955
Carbon tetrachloride	U		0.159	0.500	1	10/26/2019 01:33	WG1369955

JC 12/9/19

MW-918-101719

Collected date/time: 10/17/19 08:30

SAMPLE RESULTS - 01

L1151401

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/26/2019 01:33	WG1369955
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 01:33	WG1369955
Chloroethane	U		0.141	2.50	1	10/26/2019 01:33	WG1369955
Chloroform	U		0.0860	0.500	1	10/26/2019 01:33	WG1369955
Chloromethane	U	UJ J0	0.153	1.25	1	10/26/2019 01:33	WG1369955
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 01:33	WG1369955
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 01:33	WG1369955
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 01:33	WG1369955
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 01:33	WG1369955
Dibromomethane	U		0.117	0.500	1	10/26/2019 01:33	WG1369955
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 01:33	WG1369955
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 01:33	WG1369955
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 01:33	WG1369955
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 01:33	WG1369955
1,1-Dichloroethane	1.29		0.114	0.500	1	10/26/2019 01:33	WG1369955
1,2-Dichloroethane	0.485	J	0.108	0.500	1	10/26/2019 01:33	WG1369955
1,1-Dichloroethene	0.478	J	0.188	0.500	1	10/26/2019 01:33	WG1369955
cis-1,2-Dichloroethene	49.8		0.0933	0.500	1	10/27/2019 16:09	WG1370146
trans-1,2-Dichloroethene	0.243	J	0.152	0.500	1	10/26/2019 01:33	WG1369955
1,2-Dichloropropane	U	UJ	0.190	0.500	1	10/26/2019 01:33	WG1369955
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 01:33	WG1369955
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 01:33	WG1369955
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 01:33	WG1369955
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 01:33	WG1369955
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/26/2019 01:33	WG1369955
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 01:33	WG1369955
Di-isopropyl ether	U		0.0924	0.500	1	10/26/2019 01:33	WG1369955
Ethylbenzene	U		0.158	0.500	1	10/26/2019 01:33	WG1369955
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 01:33	WG1369955
2-Hexanone	U		0.757	5.00	1	10/26/2019 01:33	WG1369955
n-Hexane	U		0.305	5.00	1	10/26/2019 01:33	WG1369955
Iodomethane	U		0.377	10.0	1	10/26/2019 01:33	WG1369955
Isopropylbenzene	U		0.126	0.500	1	10/26/2019 01:33	WG1369955
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 01:33	WG1369955
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 01:33	WG1369955
Methylene Chloride	U		1.07	2.50	1	10/26/2019 01:33	WG1369955
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 01:33	WG1369955
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 01:33	WG1369955
Naphthalene	U		0.174	2.50	1	10/26/2019 01:33	WG1369955
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 01:33	WG1369955
Styrene	U		0.117	0.500	1	10/26/2019 01:33	WG1369955
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 01:33	WG1369955
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 01:33	WG1369955
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/26/2019 01:33	WG1369955
Tetrachloroethene	73.9		0.199	0.500	1	10/26/2019 01:33	WG1369955
Toluene	U		0.412	0.500	1	10/26/2019 01:33	WG1369955
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 01:33	WG1369955
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 01:33	WG1369955
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/26/2019 01:33	WG1369955
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 01:33	WG1369955
Trichloroethene	26.9		0.153	0.500	1	10/26/2019 01:33	WG1369955
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 01:33	WG1369955
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 01:33	WG1369955
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 01:33	WG1369955
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 01:33	WG1369955
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 01:33	WG1369955

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/26/2019 01:33	WG1369955
Vinyl chloride	2.25		0.118	0.500	1	10/27/2019 16:09	WG1370146
Xylenes, Total	U		0.316	1.50	1	10/26/2019 01:33	WG1369955
(S) Toluene-d8	*112*			*80.0-120*		*10/26/2019 01:33*	WG1369955
(S) Toluene-d8	*92.6*			*80.0-120*		*10/27/2019 16:09*	WG1370146
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*10/26/2019 01:33*	WG1369955
(S) 4-Bromofluorobenzene	*90.8*			*77.0-126*		*10/27/2019 16:09*	WG1370146
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*10/26/2019 01:33*	WG1369955
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/27/2019 16:09*	WG1370146

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	633000		2710	20000	1	10/23/2019 19:29	WG1367736

Sample Narrative:

L1151401-02 WG1367736: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	46000		51.9	1000	1	10/18/2019 18:26	WG1365245
Nitrate	U		22.7	100	1	10/18/2019 18:26	WG1365245
Sulfate	83300		77.4	5000	1	10/18/2019 18:26	WG1365245

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	19300		102	1000	1	10/22/2019 18:32	WG1367168

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3440		15.0	100	1	10/23/2019 09:28	WG1366327
Manganese	3830		0.250	5.00	1	10/23/2019 09:28	WG1366327

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1450	~~B~~	316	1000	10	10/23/2019 23:15	WG1367716
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*10/23/2019 23:15*	WG1367716

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2490		0.287	0.678	1	10/22/2019 05:47	WG1366961
Ethane	179		0.296	1.29	1	10/22/2019 05:47	WG1366961
Ethene	U		0.422	1.27	1	10/22/2019 05:47	WG1366961

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	12.9 U	J J0	10.5	250	10	10/26/2019 01:53	WG1369955
Acrylonitrile	U		8.73	50.0	10	10/26/2019 01:53	WG1369955
Benzene	U		0.896	5.00	10	10/26/2019 01:53	WG1369955
Bromobenzene	U	UJ J0	1.33	5.00	10	10/26/2019 01:53	WG1369955
Bromodichloromethane	U		0.800	5.00	10	10/26/2019 01:53	WG1369955
Bromochloromethane	U		1.45	5.00	10	10/26/2019 01:53	WG1369955
Bromoform	U		1.86	5.00	10	10/26/2019 01:53	WG1369955
Bromomethane	U		1.57	25.0	10	10/26/2019 01:53	WG1369955
n-Butylbenzene	U		1.43	5.00	10	10/26/2019 01:53	WG1369955
sec-Butylbenzene	U		1.34	5.00	10	10/26/2019 01:53	WG1369955
tert-Butylbenzene	U		1.83	5.00	10	10/26/2019 01:53	WG1369955
Carbon disulfide	U		1.01	5.00	10	10/26/2019 01:53	WG1369955
Carbon tetrachloride	U		1.59	5.00	10	10/26/2019 01:53	WG1369955

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		1.40	5.00	10	10/26/2019 01:53	WG1369955	
Chlorodibromomethane	U		1.28	5.00	10	10/26/2019 01:53	WG1369955	
Chloroethane	U		1.41	25.0	10	10/26/2019 01:53	WG1369955	
Chloroform	U		0.860	5.00	10	10/26/2019 01:53	WG1369955	
Chloromethane	U	UJ J0	1.53	12.5	10	10/26/2019 01:53	WG1369955	
2-Chlorotoluene	U		1.11	5.00	10	10/26/2019 01:53	WG1369955	
4-Chlorotoluene	U		0.972	5.00	10	10/26/2019 01:53	WG1369955	
1,2-Dibromo-3-Chloropropane	U		3.25	25.0	10	10/26/2019 01:53	WG1369955	
1,2-Dibromoethane	U		1.93	5.00	10	10/26/2019 01:53	WG1369955	
Dibromomethane	U		1.17	5.00	10	10/26/2019 01:53	WG1369955	
1,2-Dichlorobenzene	U		1.01	5.00	10	10/26/2019 01:53	WG1369955	
1,3-Dichlorobenzene	U		1.30	5.00	10	10/26/2019 01:53	WG1369955	
1,4-Dichlorobenzene	U		1.21	5.00	10	10/26/2019 01:53	WG1369955	
Dichlorodifluoromethane	U		1.27	25.0	10	10/26/2019 01:53	WG1369955	
1,1-Dichloroethane	U		1.14	5.00	10	10/26/2019 01:53	WG1369955	
1,2-Dichloroethane	U		1.08	5.00	10	10/26/2019 01:53	WG1369955	
1,1-Dichloroethene	6.70		1.88	5.00	10	10/26/2019 01:53	WG1369955	
cis-1,2-Dichloroethene	1420		0.933	5.00	10	10/26/2019 01:53	WG1369955	
trans-1,2-Dichloroethene	6.04		1.52	5.00	10	10/26/2019 01:53	WG1369955	
1,2-Dichloropropane	U		1.90	5.00	10	10/26/2019 01:53	WG1369955	
1,1-Dichloropropene	U		1.28	5.00	10	10/26/2019 01:53	WG1369955	
1,3-Dichloropropane	U		1.47	10.0	10	10/26/2019 01:53	WG1369955	
cis-1,3-Dichloropropene	U		0.976	5.00	10	10/26/2019 01:53	WG1369955	
trans-1,3-Dichloropropene	U		2.22	5.00	10	10/26/2019 01:53	WG1369955	
trans-1,4-Dichloro-2-butene	U	UJ J0	2.57	50.0	10	10/26/2019 01:53	WG1369955	
2,2-Dichloropropane	U		0.929	5.00	10	10/26/2019 01:53	WG1369955	
Di-isopropyl ether	U		0.924	5.00	10	10/26/2019 01:53	WG1369955	
Ethylbenzene	U		1.58	5.00	10	10/26/2019 01:53	WG1369955	
Hexachloro-1,3-butadiene	U		1.57	10.0	10	10/26/2019 01:53	WG1369955	
2-Hexanone	U		7.57	50.0	10	10/26/2019 01:53	WG1369955	
n-Hexane	U		3.05	50.0	10	10/26/2019 01:53	WG1369955	
Iodomethane	U		3.77	100	10	10/26/2019 01:53	WG1369955	
Isopropylbenzene	U		1.26	5.00	10	10/26/2019 01:53	WG1369955	
p-Isopropyltoluene	U		1.38	5.00	10	10/26/2019 01:53	WG1369955	
2-Butanone (MEK)	U		12.8	50.0	10	10/26/2019 01:53	WG1369955	
Methylene Chloride	U		10.7	25.0	10	10/26/2019 01:53	WG1369955	
4-Methyl-2-pentanone (MIBK)	U		8.23	50.0	10	10/26/2019 01:53	WG1369955	
Methyl tert-butyl ether	U		1.02	5.00	10	10/26/2019 01:53	WG1369955	
Naphthalene	U		1.74	25.0	10	10/26/2019 01:53	WG1369955	
n-Propylbenzene	U		1.62	5.00	10	10/26/2019 01:53	WG1369955	
Styrene	U		1.17	5.00	10	10/26/2019 01:53	WG1369955	
1,1,1,2-Tetrachloroethane	U		1.20	5.00	10	10/26/2019 01:53	WG1369955	
1,1,2,2-Tetrachloroethane	U		1.30	5.00	10	10/26/2019 01:53	WG1369955	
1,1,2-Trichlorotrifluoroethane	U		1.64	5.00	10	10/26/2019 01:53	WG1369955	
Tetrachloroethene	682		1.99	5.00	10	10/26/2019 01:53	WG1369955	
Toluene	U		4.12	5.00	10	10/26/2019 01:53	WG1369955	
1,2,3-Trichlorobenzene	U		1.64	5.00	10	10/26/2019 01:53	WG1369955	
1,2,4-Trichlorobenzene	U		3.55	5.00	10	10/26/2019 01:53	WG1369955	
1,1,1-Trichloroethane	U		0.940	5.00	10	10/26/2019 01:53	WG1369955	
1,1,2-Trichloroethane	U		1.86	5.00	10	10/26/2019 01:53	WG1369955	
Trichloroethene	430		1.53	5.00	10	10/26/2019 01:53	WG1369955	
Trichlorofluoromethane	U		1.30	25.0	10	10/26/2019 01:53	WG1369955	
1,2,3-Trichloropropane	U		2.47	25.0	10	10/26/2019 01:53	WG1369955	
1,2,4-Trimethylbenzene	1.36	J	1.23	5.00	10	10/26/2019 01:53	WG1369955	JC 12/9/19
1,2,3-Trimethylbenzene	U		0.739	5.00	10	10/26/2019 01:53	WG1369955	
1,3,5-Trimethylbenzene	U		1.24	5.00	10	10/26/2019 01:53	WG1369955	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		6.45	50.0	10	10/26/2019 01:53	WG1369955
Vinyl chloride	51.1		1.18	5.00	10	10/26/2019 01:53	WG1369955
Xylenes, Total	U		3.16	15.0	10	10/26/2019 01:53	WG1369955
(S) Toluene-d8	*111*			*80.0-120*		*10/26/2019 01:53*	WG1369955
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*10/26/2019 01:53*	WG1369955
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/26/2019 01:53*	WG1369955

JC 12/9/19

MW-9-101719

Collected date/time: 10/17/19 10:20

SAMPLE RESULTS - 03

L1151401

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	612000		2710	20000	1	10/23/2019 19:35	WG1367736

Sample Narrative:

L1151401-03 WG1367736: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	20000		51.9	1000	1	10/18/2019 18:58	WG1365245
Nitrate	U		22.7	100	1	10/18/2019 18:58	WG1365245
Sulfate	U		77.4	5000	1	10/18/2019 18:58	WG1365245

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4420	~~B~~	102	1000	1	10/22/2019 18:51	WG1367168

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	21600		15.0	100	1	10/23/2019 09:31	WG1366327
Manganese	3760		0.250	5.00	1	10/23/2019 09:31	WG1366327

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	62.0 U	B J	31.6	100	1	10/23/2019 17:42	WG1367716
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*10/23/2019 17:42*	WG1367716

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1770		0.287	0.678	1	10/22/2019 05:51	WG1366961
Ethane	8.51		0.296	1.29	1	10/22/2019 05:51	WG1366961
Ethene	U		0.422	1.27	1	10/22/2019 05:51	WG1366961

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U UJ	J0	1.05	25.0	1	10/26/2019 02:14	WG1369955
Acrylonitrile	U		0.873	5.00	1	10/26/2019 02:14	WG1369955
Benzene	U		0.0896	0.500	1	10/26/2019 02:14	WG1369955
Bromobenzene	U UJ	J0	0.133	0.500	1	10/26/2019 02:14	WG1369955
Bromodichloromethane	U		0.0800	0.500	1	10/26/2019 02:14	WG1369955
Bromochloromethane	U		0.145	0.500	1	10/26/2019 02:14	WG1369955
Bromoform	U		0.186	0.500	1	10/26/2019 02:14	WG1369955
Bromomethane	U		0.157	2.50	1	10/26/2019 02:14	WG1369955
n-Butylbenzene	U		0.143	0.500	1	10/26/2019 02:14	WG1369955
sec-Butylbenzene	U		0.134	0.500	1	10/26/2019 02:14	WG1369955
tert-Butylbenzene	U		0.183	0.500	1	10/26/2019 02:14	WG1369955
Carbon disulfide	U		0.101	0.500	1	10/26/2019 02:14	WG1369955
Carbon tetrachloride	U		0.159	0.500	1	10/26/2019 02:14	WG1369955

JC 12/9/19

MW-9-101719
Collected date/time: 10/17/19 10:20

SAMPLE RESULTS - 03

L1151401

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/26/2019 02:14	WG1369955
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 02:14	WG1369955
Chloroethane	U		0.141	2.50	1	10/26/2019 02:14	WG1369955
Chloroform	U		0.0860	0.500	1	10/26/2019 02:14	WG1369955
Chloromethane	U	UJ J0	0.153	1.25	1	10/26/2019 02:14	WG1369955
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 02:14	WG1369955
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 02:14	WG1369955
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 02:14	WG1369955
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 02:14	WG1369955
Dibromomethane	U		0.117	0.500	1	10/26/2019 02:14	WG1369955
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 02:14	WG1369955
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 02:14	WG1369955
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 02:14	WG1369955
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 02:14	WG1369955
1,1-Dichloroethane	U		0.114	0.500	1	10/26/2019 02:14	WG1369955
1,2-Dichloroethane	U		0.108	0.500	1	10/26/2019 02:14	WG1369955
1,1-Dichloroethene	U		0.188	0.500	1	10/26/2019 02:14	WG1369955
cis-1,2-Dichloroethene	0.786		0.0933	0.500	1	10/26/2019 02:14	WG1369955
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/26/2019 02:14	WG1369955
1,2-Dichloropropane	U		0.190	0.500	1	10/26/2019 02:14	WG1369955
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 02:14	WG1369955
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 02:14	WG1369955
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 02:14	WG1369955
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 02:14	WG1369955
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/26/2019 02:14	WG1369955
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 02:14	WG1369955
Di-isopropyl ether	U		0.0924	0.500	1	10/26/2019 02:14	WG1369955
Ethylbenzene	U		0.158	0.500	1	10/26/2019 02:14	WG1369955
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 02:14	WG1369955
2-Hexanone	U		0.757	5.00	1	10/26/2019 02:14	WG1369955
n-Hexane	U		0.305	5.00	1	10/26/2019 02:14	WG1369955
Iodomethane	U		0.377	10.0	1	10/26/2019 02:14	WG1369955
Isopropylbenzene	U		0.126	0.500	1	10/26/2019 02:14	WG1369955
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 02:14	WG1369955
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 02:14	WG1369955
Methylene Chloride	U		1.07	2.50	1	10/26/2019 02:14	WG1369955
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 02:14	WG1369955
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 02:14	WG1369955
Naphthalene	U		0.174	2.50	1	10/26/2019 02:14	WG1369955
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 02:14	WG1369955
Styrene	U		0.117	0.500	1	10/26/2019 02:14	WG1369955
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 02:14	WG1369955
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 02:14	WG1369955
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/26/2019 02:14	WG1369955
Tetrachloroethene	U		0.199	0.500	1	10/26/2019 02:14	WG1369955
Toluene	U		0.412	0.500	1	10/26/2019 02:14	WG1369955
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 02:14	WG1369955
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 02:14	WG1369955
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/26/2019 02:14	WG1369955
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 02:14	WG1369955
Trichloroethene	U		0.153	0.500	1	10/26/2019 02:14	WG1369955
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 02:14	WG1369955
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 02:14	WG1369955
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 02:14	WG1369955
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 02:14	WG1369955
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 02:14	WG1369955

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/26/2019 02:14	WG1369955
Vinyl chloride	0.416	J	0.118	0.500	1	10/26/2019 02:14	WG1369955
Xylenes, Total	U		0.316	1.50	1	10/26/2019 02:14	WG1369955
(S) Toluene-d8	*110*			*80.0-120*		*10/26/2019 02:14*	WG1369955
(S) 4-Bromofluorobenzene	*115*			*77.0-126*		*10/26/2019 02:14*	WG1369955
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/26/2019 02:14*	WG1369955

JC 12/9/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	264000		2710	20000	1	10/23/2019 19:42	WG1367736

Sample Narrative:

L1151401-04 WG1367736: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	22000		51.9	1000	1	10/18/2019 19:15	WG1365245
Nitrate	472		22.7	100	1	10/18/2019 19:15	WG1365245
Sulfate	119000		387	25000	5	10/19/2019 09:25	WG1365245

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3640	~~B~~	102	1000	1	10/22/2019 19:53	WG1367168

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	937		15.0	100	1	10/23/2019 09:35	WG1366327
Manganese	637		0.250	5.00	1	10/23/2019 09:35	WG1366327

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	106	~~B~~	31.6	100	1	10/26/2019 16:56	WG1369652
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*78.0-120*		*10/26/2019 16:56*	WG1369652

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	86.4	J	0.287	0.678	1	10/22/2019 06:06	WG1366961
Ethane	U		0.296	1.29	1	10/22/2019 06:06	WG1366961
Ethene	U		0.422	1.27	1	10/22/2019 06:06	WG1366961

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	10/27/2019 16:28	WG1370146
Acrylonitrile	U		0.873	5.00	1	10/27/2019 16:28	WG1370146
Benzene	U		0.0896	0.500	1	10/27/2019 16:28	WG1370146
Bromobenzene	U		0.133	0.500	1	10/27/2019 16:28	WG1370146
Bromodichloromethane	U		0.0800	0.500	1	10/27/2019 16:28	WG1370146
Bromochloromethane	U		0.145	0.500	1	10/27/2019 16:28	WG1370146
Bromoform	U		0.186	0.500	1	10/27/2019 16:28	WG1370146
Bromomethane	U	UJ J0	0.157	2.50	1	10/27/2019 16:28	WG1370146
n-Butylbenzene	U		0.143	0.500	1	10/27/2019 16:28	WG1370146
sec-Butylbenzene	U		0.134	0.500	1	10/27/2019 16:28	WG1370146
tert-Butylbenzene	U		0.183	0.500	1	10/27/2019 16:28	WG1370146
Carbon disulfide	U		0.101	0.500	1	10/27/2019 16:28	WG1370146
Carbon tetrachloride	U		0.159	0.500	1	10/27/2019 16:28	WG1370146

JC 12/9/19

SAMPLE RESULTS - 04

L1151401

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/27/2019 16:28	WG1370146
Chlorodibromomethane	U		0.128	0.500	1	10/27/2019 16:28	WG1370146
Chloroethane	U		0.141	2.50	1	10/27/2019 16:28	WG1370146
Chloroform	U		0.0860	0.500	1	10/27/2019 16:28	WG1370146
Chloromethane	U		0.153	1.25	1	10/27/2019 16:28	WG1370146
2-Chlorotoluene	U		0.111	0.500	1	10/27/2019 16:28	WG1370146
4-Chlorotoluene	U		0.0972	0.500	1	10/27/2019 16:28	WG1370146
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/27/2019 16:28	WG1370146
1,2-Dibromoethane	U		0.193	0.500	1	10/27/2019 16:28	WG1370146
Dibromomethane	U		0.117	0.500	1	10/27/2019 16:28	WG1370146
1,2-Dichlorobenzene	U		0.101	0.500	1	10/27/2019 16:28	WG1370146
1,3-Dichlorobenzene	U		0.130	0.500	1	10/27/2019 16:28	WG1370146
1,4-Dichlorobenzene	U		0.121	0.500	1	10/27/2019 16:28	WG1370146
Dichlorodifluoromethane	U	UJ J0	0.127	2.50	1	10/27/2019 16:28	WG1370146
1,1-Dichloroethane	1.52		0.114	0.500	1	10/27/2019 16:28	WG1370146
1,2-Dichloroethane	0.605		0.108	0.500	1	10/27/2019 16:28	WG1370146
1,1-Dichloroethene	0.552		0.188	0.500	1	10/27/2019 16:28	WG1370146
cis-1,2-Dichloroethene	48.8		0.0933	0.500	1	10/27/2019 16:28	WG1370146
trans-1,2-Dichloroethene	0.220	J	0.152	0.500	1	10/27/2019 16:28	WG1370146
1,2-Dichloropropane	1.12	J	0.190	0.500	1	10/27/2019 16:28	WG1370146
1,1-Dichloropropene	U		0.128	0.500	1	10/27/2019 16:28	WG1370146
1,3-Dichloropropane	U		0.147	1.00	1	10/27/2019 16:28	WG1370146
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/27/2019 16:28	WG1370146
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/27/2019 16:28	WG1370146
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/27/2019 16:28	WG1370146
2,2-Dichloropropane	U		0.0929	0.500	1	10/27/2019 16:28	WG1370146
Di-isopropyl ether	U		0.0924	0.500	1	10/27/2019 16:28	WG1370146
Ethylbenzene	U		0.158	0.500	1	10/27/2019 16:28	WG1370146
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/27/2019 16:28	WG1370146
2-Hexanone	U		0.757	5.00	1	10/27/2019 16:28	WG1370146
n-Hexane	U		0.305	5.00	1	10/27/2019 16:28	WG1370146
Iodomethane	U	UJ J0	0.377	10.0	1	10/27/2019 16:28	WG1370146
Isopropylbenzene	U		0.126	0.500	1	10/27/2019 16:28	WG1370146
p-Isopropyltoluene	U		0.138	0.500	1	10/27/2019 16:28	WG1370146
2-Butanone (MEK)	U		1.28	5.00	1	10/27/2019 16:28	WG1370146
Methylene Chloride	U		1.07	2.50	1	10/27/2019 16:28	WG1370146
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/27/2019 16:28	WG1370146
Methyl tert-butyl ether	U		0.102	0.500	1	10/27/2019 16:28	WG1370146
Naphthalene	U		0.174	2.50	1	10/27/2019 16:28	WG1370146
n-Propylbenzene	U		0.162	0.500	1	10/27/2019 16:28	WG1370146
Styrene	U		0.117	0.500	1	10/27/2019 16:28	WG1370146
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/27/2019 16:28	WG1370146
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/27/2019 16:28	WG1370146
1,1,2-Trichlorotrifluoroethane	U	UJ J0	0.164	0.500	1	10/27/2019 16:28	WG1370146
Tetrachloroethene	61.5		0.199	0.500	1	10/27/2019 16:28	WG1370146
Toluene	U		0.412	0.500	1	10/27/2019 16:28	WG1370146
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/27/2019 16:28	WG1370146
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/27/2019 16:28	WG1370146
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/27/2019 16:28	WG1370146
1,1,2-Trichloroethane	U		0.186	0.500	1	10/27/2019 16:28	WG1370146
Trichloroethene	22.3		0.153	0.500	1	10/27/2019 16:28	WG1370146
Trichlorofluoromethane	U		0.130	2.50	1	10/27/2019 16:28	WG1370146
1,2,3-Trichloropropane	U		0.247	2.50	1	10/27/2019 16:28	WG1370146
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/27/2019 16:28	WG1370146
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/27/2019 16:28	WG1370146
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/27/2019 16:28	WG1370146

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/27/2019 16:28	WG1370146
Vinyl chloride	2.31		0.118	0.500	1	10/27/2019 16:28	WG1370146
Xylenes, Total	U		0.316	1.50	1	10/27/2019 16:28	WG1370146
(S) Toluene-d8	*96.1*			*80.0-120*		*10/27/2019 16:28*	WG1370146
(S) 4-Bromofluorobenzene	*97.0*			*77.0-126*		*10/27/2019 16:28*	WG1370146
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/27/2019 16:28*	WG1370146

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	183000		2710	20000	1	10/23/2019 19:49	WG1367736

Sample Narrative:

L1151401-05 WG1367736: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	8210		51.9	1000	1	10/18/2019 19:31	WG1365245
Nitrate	U		22.7	100	1	10/18/2019 19:31	WG1365245
Sulfate	2060	J	77.4	5000	1	10/18/2019 19:31	WG1365245

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2310	~~B~~	102	1000	1	10/22/2019 20:09	WG1367168

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	10500		15.0	100	1	10/23/2019 09:39	WG1366327
Manganese	522		0.250	5.00	1	10/23/2019 09:39	WG1366327

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/24/2019 19:35	WG1368064
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*78.0-120*		*10/24/2019 19:35*	WG1368064

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	537		0.287	0.678	1	10/22/2019 06:11	WG1366961
Ethane	U		0.296	1.29	1	10/22/2019 06:11	WG1366961
Ethene	U		0.422	1.27	1	10/22/2019 06:11	WG1366961

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.26	U J J0	1.05	25.0	1	10/26/2019 02:54	WG1369955
Acrylonitrile	U		0.873	5.00	1	10/26/2019 02:54	WG1369955
Benzene	U		0.0896	0.500	1	10/26/2019 02:54	WG1369955
Bromobenzene	U	UJ J0	0.133	0.500	1	10/26/2019 02:54	WG1369955
Bromodichloromethane	U		0.0800	0.500	1	10/26/2019 02:54	WG1369955
Bromochloromethane	U		0.145	0.500	1	10/26/2019 02:54	WG1369955
Bromoform	U		0.186	0.500	1	10/26/2019 02:54	WG1369955
Bromomethane	U		0.157	2.50	1	10/26/2019 02:54	WG1369955
n-Butylbenzene	U		0.143	0.500	1	10/26/2019 02:54	WG1369955
sec-Butylbenzene	U		0.134	0.500	1	10/26/2019 02:54	WG1369955
tert-Butylbenzene	U		0.183	0.500	1	10/26/2019 02:54	WG1369955
Carbon disulfide	U		0.101	0.500	1	10/26/2019 02:54	WG1369955
Carbon tetrachloride	U		0.159	0.500	1	10/26/2019 02:54	WG1369955

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	10/26/2019 02:54	WG1369955
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 02:54	WG1369955
Chloroethane	U		0.141	2.50	1	10/26/2019 02:54	WG1369955
Chloroform	U		0.0860	0.500	1	10/26/2019 02:54	WG1369955
Chloromethane	U UJ	J0	0.153	1.25	1	10/26/2019 02:54	WG1369955
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 02:54	WG1369955
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 02:54	WG1369955
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 02:54	WG1369955
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 02:54	WG1369955
Dibromomethane	U		0.117	0.500	1	10/26/2019 02:54	WG1369955
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 02:54	WG1369955
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 02:54	WG1369955
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 02:54	WG1369955
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 02:54	WG1369955
1,1-Dichloroethane	U		0.114	0.500	1	10/26/2019 02:54	WG1369955
1,2-Dichloroethane	U		0.108	0.500	1	10/26/2019 02:54	WG1369955
1,1-Dichloroethene	U		0.188	0.500	1	10/26/2019 02:54	WG1369955
cis-1,2-Dichloroethene	0.445	J	0.0933	0.500	1	10/26/2019 02:54	WG1369955
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/26/2019 02:54	WG1369955
1,2-Dichloropropane	U		0.190	0.500	1	10/26/2019 02:54	WG1369955
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 02:54	WG1369955
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 02:54	WG1369955
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 02:54	WG1369955
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 02:54	WG1369955
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/26/2019 02:54	WG1369955
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 02:54	WG1369955
Di-isopropyl ether	U		0.0924	0.500	1	10/26/2019 02:54	WG1369955
Ethylbenzene	U		0.158	0.500	1	10/26/2019 02:54	WG1369955
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 02:54	WG1369955
2-Hexanone	U		0.757	5.00	1	10/26/2019 02:54	WG1369955
n-Hexane	U		0.305	5.00	1	10/26/2019 02:54	WG1369955
Iodomethane	U		0.377	10.0	1	10/26/2019 02:54	WG1369955
Isopropylbenzene	U		0.126	0.500	1	10/26/2019 02:54	WG1369955
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 02:54	WG1369955
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 02:54	WG1369955
Methylene Chloride	U		1.07	2.50	1	10/26/2019 02:54	WG1369955
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 02:54	WG1369955
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 02:54	WG1369955
Naphthalene	U		0.174	2.50	1	10/26/2019 02:54	WG1369955
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 02:54	WG1369955
Styrene	U		0.117	0.500	1	10/26/2019 02:54	WG1369955
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 02:54	WG1369955
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 02:54	WG1369955
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/26/2019 02:54	WG1369955
Tetrachloroethene	U		0.199	0.500	1	10/26/2019 02:54	WG1369955
Toluene	U		0.412	0.500	1	10/26/2019 02:54	WG1369955
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 02:54	WG1369955
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 02:54	WG1369955
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/26/2019 02:54	WG1369955
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 02:54	WG1369955
Trichloroethene	U		0.153	0.500	1	10/26/2019 02:54	WG1369955
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 02:54	WG1369955
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 02:54	WG1369955
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 02:54	WG1369955
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 02:54	WG1369955
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 02:54	WG1369955

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/26/2019 02:54	WG1369955
Vinyl chloride	U		0.118	0.500	1	10/26/2019 02:54	WG1369955
Xylenes, Total	U		0.316	1.50	1	10/26/2019 02:54	WG1369955
(S) Toluene-d8	*113*			*80.0-120*		*10/26/2019 02:54*	WG1369955
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*10/26/2019 02:54*	WG1369955
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*10/26/2019 02:54*	WG1369955

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	133000		2710	20000	1	10/23/2019 19:57	WG1367736

Sample Narrative:

L1151401-06 WG1367736: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	27200		51.9	1000	1	10/18/2019 20:21	WG1365245
Nitrate	323		22.7	100	1	10/18/2019 20:21	WG1365245
Sulfate	71600		77.4	5000	1	10/18/2019 20:21	WG1365245

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1900	~~B~~	102	1000	1	10/22/2019 22:04	WG1367168

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	920		15.0	100	1	10/23/2019 09:42	WG1366327
Manganese	161		0.250	5.00	1	10/23/2019 09:42	WG1366327

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/24/2019 19:58	WG1368064
(S) a,a,a-Trifluorotoluene(FID)	*96.6*			*78.0-120*		*10/24/2019 19:58*	WG1368064

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	10/22/2019 06:13	WG1366961
Ethane	U		0.296	1.29	1	10/22/2019 06:13	WG1366961
Ethene	U		0.422	1.27	1	10/22/2019 06:13	WG1366961

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.43 U	J J0	1.05	25.0	1	10/26/2019 03:15	WG1369955
Acrylonitrile	U		0.873	5.00	1	10/26/2019 03:15	WG1369955
Benzene	U		0.0896	0.500	1	10/26/2019 03:15	WG1369955
Bromobenzene	U	UJ J0	0.133	0.500	1	10/26/2019 03:15	WG1369955
Bromodichloromethane	U		0.0800	0.500	1	10/26/2019 03:15	WG1369955
Bromochloromethane	U		0.145	0.500	1	10/26/2019 03:15	WG1369955
Bromoform	U		0.186	0.500	1	10/26/2019 03:15	WG1369955
Bromomethane	U		0.157	2.50	1	10/26/2019 03:15	WG1369955
n-Butylbenzene	U		0.143	0.500	1	10/26/2019 03:15	WG1369955
sec-Butylbenzene	U		0.134	0.500	1	10/26/2019 03:15	WG1369955
tert-Butylbenzene	U		0.183	0.500	1	10/26/2019 03:15	WG1369955
Carbon disulfide	U		0.101	0.500	1	10/26/2019 03:15	WG1369955
Carbon tetrachloride	U		0.159	0.500	1	10/26/2019 03:15	WG1369955

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/26/2019 03:15	WG1369955
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 03:15	WG1369955
Chloroethane	U		0.141	2.50	1	10/26/2019 03:15	WG1369955
Chloroform	U		0.0860	0.500	1	10/26/2019 03:15	WG1369955
Chloromethane	U	UJ J0	0.153	1.25	1	10/26/2019 03:15	WG1369955
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 03:15	WG1369955
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 03:15	WG1369955
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 03:15	WG1369955
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 03:15	WG1369955
Dibromomethane	U		0.117	0.500	1	10/26/2019 03:15	WG1369955
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 03:15	WG1369955
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 03:15	WG1369955
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 03:15	WG1369955
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 03:15	WG1369955
1,1-Dichloroethane	0.547		0.114	0.500	1	10/26/2019 03:15	WG1369955
1,2-Dichloroethane	U		0.108	0.500	1	10/26/2019 03:15	WG1369955
1,1-Dichloroethene	U		0.188	0.500	1	10/26/2019 03:15	WG1369955
cis-1,2-Dichloroethene	0.656		0.0933	0.500	1	10/26/2019 03:15	WG1369955
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/26/2019 03:15	WG1369955
1,2-Dichloropropane	U		0.190	0.500	1	10/26/2019 03:15	WG1369955
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 03:15	WG1369955
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 03:15	WG1369955
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 03:15	WG1369955
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 03:15	WG1369955
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/26/2019 03:15	WG1369955
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 03:15	WG1369955
Di-isopropyl ether	U		0.0924	0.500	1	10/26/2019 03:15	WG1369955
Ethylbenzene	U		0.158	0.500	1	10/26/2019 03:15	WG1369955
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 03:15	WG1369955
2-Hexanone	U		0.757	5.00	1	10/26/2019 03:15	WG1369955
n-Hexane	U		0.305	5.00	1	10/26/2019 03:15	WG1369955
Iodomethane	U		0.377	10.0	1	10/26/2019 03:15	WG1369955
Isopropylbenzene	U		0.126	0.500	1	10/26/2019 03:15	WG1369955
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 03:15	WG1369955
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 03:15	WG1369955
Methylene Chloride	U		1.07	2.50	1	10/26/2019 03:15	WG1369955
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 03:15	WG1369955
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 03:15	WG1369955
Naphthalene	U		0.174	2.50	1	10/26/2019 03:15	WG1369955
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 03:15	WG1369955
Styrene	U		0.117	0.500	1	10/26/2019 03:15	WG1369955
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 03:15	WG1369955
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 03:15	WG1369955
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/26/2019 03:15	WG1369955
Tetrachloroethene	U		0.199	0.500	1	10/26/2019 03:15	WG1369955
Toluene	U		0.412	0.500	1	10/26/2019 03:15	WG1369955
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 03:15	WG1369955
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 03:15	WG1369955
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/26/2019 03:15	WG1369955
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 03:15	WG1369955
Trichloroethene	U		0.153	0.500	1	10/26/2019 03:15	WG1369955
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 03:15	WG1369955
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 03:15	WG1369955
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 03:15	WG1369955
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 03:15	WG1369955
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 03:15	WG1369955

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/26/2019 03:15	WG1369955
Vinyl chloride	U		0.118	0.500	1	10/26/2019 03:15	WG1369955
Xylenes, Total	U		0.316	1.50	1	10/26/2019 03:15	WG1369955
(S) Toluene-d8	*112*			*80.0-120*		*10/26/2019 03:15*	WG1369955
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*10/26/2019 03:15*	WG1369955
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*10/26/2019 03:15*	WG1369955

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	409000		2710	20000	1	10/24/2019 17:52	WG1368516

Sample Narrative:

L1151886-01 WG1368516: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	22900		51.9	1000	1	10/19/2019 15:43	WG1365799
Nitrate	U		22.7	100	1	10/19/2019 15:43	WG1365799
Sulfate	5610		77.4	5000	1	10/19/2019 15:43	WG1365799

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5560		102	1000	1	10/25/2019 13:47	WG1368322

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5140		150	1000	10	10/28/2019 11:15	WG1366331
Manganese	1860		2.50	50.0	10	10/28/2019 11:15	WG1366331

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	4380		0.287	0.678	1	10/22/2019 08:04	WG1366962
Ethane	U		0.296	1.29	1	10/22/2019 08:04	WG1366962
Ethene	U		0.422	1.27	1	10/22/2019 08:04	WG1366962

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.19	J	1.05	25.0	1	10/26/2019 19:23	WG1370189
Acrylonitrile	U		0.873	5.00	1	10/26/2019 19:23	WG1370189
Benzene	U		0.0896	0.500	1	10/26/2019 19:23	WG1370189
Bromobenzene	U		0.133	0.500	1	10/26/2019 19:23	WG1370189
Bromodichloromethane	U		0.0800	0.500	1	10/26/2019 19:23	WG1370189
Bromochloromethane	U		0.145	0.500	1	10/26/2019 19:23	WG1370189
Bromoform	U		0.186	0.500	1	10/26/2019 19:23	WG1370189
Bromomethane	U UJ	J0	0.157	2.50	1	10/26/2019 19:23	WG1370189
n-Butylbenzene	U		0.143	0.500	1	10/26/2019 19:23	WG1370189
sec-Butylbenzene	U		0.134	0.500	1	10/26/2019 19:23	WG1370189
tert-Butylbenzene	U		0.183	0.500	1	10/26/2019 19:23	WG1370189
Carbon disulfide	U		0.101	0.500	1	10/26/2019 19:23	WG1370189
Carbon tetrachloride	U		0.159	0.500	1	10/26/2019 19:23	WG1370189
Chlorobenzene	U		0.140	0.500	1	10/26/2019 19:23	WG1370189
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 19:23	WG1370189
Chloroethane	U		0.141	2.50	1	10/26/2019 19:23	WG1370189
Chloroform	U		0.0860	0.500	1	10/26/2019 19:23	WG1370189
Chloromethane	U		0.153	1.25	1	10/26/2019 19:23	WG1370189
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 19:23	WG1370189
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 19:23	WG1370189

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 19:23	WG1370189
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 19:23	WG1370189
Dibromomethane	U		0.117	0.500	1	10/26/2019 19:23	WG1370189
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 19:23	WG1370189
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 19:23	WG1370189
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 19:23	WG1370189
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 19:23	WG1370189
1,1-Dichloroethane	U		0.114	0.500	1	10/26/2019 19:23	WG1370189
1,2-Dichloroethane	U		0.108	0.500	1	10/26/2019 19:23	WG1370189
1,1-Dichloroethene	U		0.188	0.500	1	10/26/2019 19:23	WG1370189
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/26/2019 19:23	WG1370189
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/26/2019 19:23	WG1370189
1,2-Dichloropropane	U		0.190	0.500	1	10/26/2019 19:23	WG1370189
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 19:23	WG1370189
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 19:23	WG1370189
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 19:23	WG1370189
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 19:23	WG1370189
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/26/2019 19:23	WG1370189
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 19:23	WG1370189
Di-isopropyl ether	0.163	J	0.0924	0.500	1	10/26/2019 19:23	WG1370189
Ethylbenzene	U		0.158	0.500	1	10/26/2019 19:23	WG1370189
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 19:23	WG1370189
2-Hexanone	U		0.757	5.00	1	10/26/2019 19:23	WG1370189
n-Hexane	U		0.305	5.00	1	10/26/2019 19:23	WG1370189
Iodomethane	U	UJ J0	0.377	10.0	1	10/26/2019 19:23	WG1370189
Isopropylbenzene	U	UJ J0	0.126	0.500	1	10/26/2019 19:23	WG1370189
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 19:23	WG1370189
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 19:23	WG1370189
Methylene Chloride	U		1.07	2.50	1	10/26/2019 19:23	WG1370189
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 19:23	WG1370189
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 19:23	WG1370189
Naphthalene	U		0.174	2.50	1	10/26/2019 19:23	WG1370189
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 19:23	WG1370189
Styrene	U		0.117	0.500	1	10/26/2019 19:23	WG1370189
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 19:23	WG1370189
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 19:23	WG1370189
1,1,2-Trichlorotrifluoroethane	U	UJ J0	0.164	0.500	1	10/26/2019 19:23	WG1370189
Tetrachloroethene	U		0.199	0.500	1	10/26/2019 19:23	WG1370189
Toluene	U		0.412	0.500	1	10/26/2019 19:23	WG1370189
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 19:23	WG1370189
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 19:23	WG1370189
1,1,1-Trichloroethane	U	UJ J0	0.0940	0.500	1	10/26/2019 19:23	WG1370189
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 19:23	WG1370189
Trichloroethene	U	UJ J0	0.153	0.500	1	10/26/2019 19:23	WG1370189
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 19:23	WG1370189
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 19:23	WG1370189
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 19:23	WG1370189
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 19:23	WG1370189
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 19:23	WG1370189
Vinyl acetate	U		0.645	5.00	1	10/26/2019 19:23	WG1370189
Vinyl chloride	U		0.118	0.500	1	10/26/2019 19:23	WG1370189
Xylenes, Total	U		0.316	1.50	1	10/26/2019 19:23	WG1370189
(S) Toluene-d8	*97.6*			*80.0-120*		*10/26/2019 19:23*	WG1370189
(S) 4-Bromofluorobenzene	*93.7*			*77.0-126*		*10/26/2019 19:23*	WG1370189
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/26/2019 19:23*	WG1370189

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	481000		2710	20000	1	10/24/2019 18:00	WG1368516

Sample Narrative:

L1151886-02 WG1368516: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	10900		51.9	1000	1	10/19/2019 16:34	WG1365799
Nitrate	31.9	J	22.7	100	1	10/19/2019 16:34	WG1365799
Sulfate	17100		77.4	5000	1	10/19/2019 16:34	WG1365799

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	15300		102	1000	1	10/25/2019 14:06	WG1368322

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	11700		300	2000	20	10/28/2019 11:19	WG1366331
Manganese	3670		5.00	100	20	10/28/2019 11:19	WG1366331

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/24/2019 23:09	WG1368064
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*78.0-120*		*10/24/2019 23:09*	WG1368064

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	997		0.287	0.678	1	10/22/2019 08:07	WG1366962
Ethane	U		0.296	1.29	1	10/22/2019 08:07	WG1366962
Ethene	U		0.422	1.27	1	10/22/2019 08:07	WG1366962

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.79	J	1.05	25.0	1	10/26/2019 19:43	WG1370189
Acrylonitrile	U		0.873	5.00	1	10/26/2019 19:43	WG1370189
Benzene	U		0.0896	0.500	1	10/26/2019 19:43	WG1370189
Bromobenzene	U		0.133	0.500	1	10/26/2019 19:43	WG1370189
Bromodichloromethane	U		0.0800	0.500	1	10/26/2019 19:43	WG1370189
Bromochloromethane	U		0.145	0.500	1	10/26/2019 19:43	WG1370189
Bromoform	U		0.186	0.500	1	10/26/2019 19:43	WG1370189
Bromomethane	U	UJ J0	0.157	2.50	1	10/26/2019 19:43	WG1370189
n-Butylbenzene	U		0.143	0.500	1	10/26/2019 19:43	WG1370189
sec-Butylbenzene	U		0.134	0.500	1	10/26/2019 19:43	WG1370189
tert-Butylbenzene	U		0.183	0.500	1	10/26/2019 19:43	WG1370189
Carbon disulfide	U		0.101	0.500	1	10/26/2019 19:43	WG1370189
Carbon tetrachloride	U		0.159	0.500	1	10/26/2019 19:43	WG1370189

JC 12/9/19

MW-125-101819

Collected date/time: 10/18/19 11:05

SAMPLE RESULTS - 02

L1151886

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/26/2019 19:43	WG1370189
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 19:43	WG1370189
Chloroethane	U		0.141	2.50	1	10/26/2019 19:43	WG1370189
Chloroform	U		0.0860	0.500	1	10/26/2019 19:43	WG1370189
Chloromethane	U		0.153	1.25	1	10/26/2019 19:43	WG1370189
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 19:43	WG1370189
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 19:43	WG1370189
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 19:43	WG1370189
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 19:43	WG1370189
Dibromomethane	U		0.117	0.500	1	10/26/2019 19:43	WG1370189
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 19:43	WG1370189
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 19:43	WG1370189
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 19:43	WG1370189
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 19:43	WG1370189
1,1-Dichloroethane	U		0.114	0.500	1	10/26/2019 19:43	WG1370189
1,2-Dichloroethane	U		0.108	0.500	1	10/26/2019 19:43	WG1370189
1,1-Dichloroethene	U		0.188	0.500	1	10/26/2019 19:43	WG1370189
cis-1,2-Dichloroethene	0.496	J	0.0933	0.500	1	10/26/2019 19:43	WG1370189
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/26/2019 19:43	WG1370189
1,2-Dichloropropane	U		0.190	0.500	1	10/26/2019 19:43	WG1370189
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 19:43	WG1370189
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 19:43	WG1370189
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 19:43	WG1370189
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 19:43	WG1370189
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/26/2019 19:43	WG1370189
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 19:43	WG1370189
Di-isopropyl ether	U		0.0924	0.500	1	10/26/2019 19:43	WG1370189
Ethylbenzene	U		0.158	0.500	1	10/26/2019 19:43	WG1370189
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 19:43	WG1370189
2-Hexanone	U		0.757	5.00	1	10/26/2019 19:43	WG1370189
n-Hexane	U		0.305	5.00	1	10/26/2019 19:43	WG1370189
Iodomethane	U	UJ J0	0.377	10.0	1	10/26/2019 19:43	WG1370189
Isopropylbenzene	U	UJ J0	0.126	0.500	1	10/26/2019 19:43	WG1370189
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 19:43	WG1370189
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 19:43	WG1370189
Methylene Chloride	U		1.07	2.50	1	10/26/2019 19:43	WG1370189
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 19:43	WG1370189
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 19:43	WG1370189
Naphthalene	U		0.174	2.50	1	10/26/2019 19:43	WG1370189
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 19:43	WG1370189
Styrene	U		0.117	0.500	1	10/26/2019 19:43	WG1370189
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 19:43	WG1370189
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 19:43	WG1370189
1,1,2-Trichlorotrifluoroethane	U	UJ J0	0.164	0.500	1	10/26/2019 19:43	WG1370189
Tetrachloroethene	U		0.199	0.500	1	10/26/2019 19:43	WG1370189
Toluene	U		0.412	0.500	1	10/26/2019 19:43	WG1370189
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 19:43	WG1370189
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 19:43	WG1370189
1,1,1-Trichloroethane	U	UJ J0	0.0940	0.500	1	10/26/2019 19:43	WG1370189
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 19:43	WG1370189
Trichloroethene	U	UJ J0	0.153	0.500	1	10/26/2019 19:43	WG1370189
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 19:43	WG1370189
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 19:43	WG1370189
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 19:43	WG1370189
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 19:43	WG1370189
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 19:43	WG1370189

JC 12/9/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/26/2019 19:43	WG1370189
Vinyl chloride	U		0.118	0.500	1	10/26/2019 19:43	WG1370189
Xylenes, Total	U		0.316	1.50	1	10/26/2019 19:43	WG1370189
(S) Toluene-d8	*95.8*			*80.0-120*		*10/26/2019 19:43*	WG1370189
(S) 4-Bromofluorobenzene	*91.8*			*77.0-126*		*10/26/2019 19:43*	WG1370189
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/26/2019 19:43*	WG1370189

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	1230000		2710	20000	1	10/24/2019 18:07	WG1368516

Sample Narrative:

L1151886-03 WG1368516: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	89500		51.9	1000	1	10/19/2019 17:00	WG1365799
Nitrate	U		22.7	100	1	10/19/2019 17:00	WG1365799
Sulfate	U		77.4	5000	1	10/19/2019 17:00	WG1365799

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	37600		102	1000	1	10/25/2019 14:25	WG1368322

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	20500		300	2000	20	10/28/2019 11:22	WG1366331
Manganese	3820		5.00	100	20	10/28/2019 11:22	WG1366331

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		316	1000	10	10/24/2019 23:55	WG1368064
(S) a,a,a-Trifluorotoluene(FID)	*97.4*			*78.0-120*		*10/24/2019 23:55*	WG1368064

Sample Narrative:

L1151886-03 WG1368064: Elevated RL due to foamy matrix.

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	32100		2.87	6.78	10	10/22/2019 08:59	WG1366962
Ethane	42.0		2.96	12.9	10	10/22/2019 08:59	WG1366962
Ethene	U		4.22	12.7	10	10/22/2019 08:59	WG1366962

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.54	J	1.05	25.0	1	10/26/2019 20:02	WG1370189
Acrylonitrile	U		0.873	5.00	1	10/26/2019 20:02	WG1370189
Benzene	U		0.0896	0.500	1	10/26/2019 20:02	WG1370189
Bromobenzene	U		0.133	0.500	1	10/26/2019 20:02	WG1370189
Bromodichloromethane	U		0.0800	0.500	1	10/26/2019 20:02	WG1370189
Bromochloromethane	U		0.145	0.500	1	10/26/2019 20:02	WG1370189
Bromoform	U		0.186	0.500	1	10/26/2019 20:02	WG1370189
Bromomethane	U	UJ J0	0.157	2.50	1	10/26/2019 20:02	WG1370189
n-Butylbenzene	U		0.143	0.500	1	10/26/2019 20:02	WG1370189
sec-Butylbenzene	U		0.134	0.500	1	10/26/2019 20:02	WG1370189

JC 12/9/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
tert-Butylbenzene	U		0.183	0.500	1	10/26/2019 20:02	WG1370189
Carbon disulfide	0.262	J	0.101	0.500	1	10/26/2019 20:02	WG1370189
Carbon tetrachloride	U		0.159	0.500	1	10/26/2019 20:02	WG1370189
Chlorobenzene	U		0.140	0.500	1	10/26/2019 20:02	WG1370189
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 20:02	WG1370189
Chloroethane	U		0.141	2.50	1	10/26/2019 20:02	WG1370189
Chloroform	U		0.0860	0.500	1	10/26/2019 20:02	WG1370189
Chloromethane	U		0.153	1.25	1	10/26/2019 20:02	WG1370189
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 20:02	WG1370189
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 20:02	WG1370189
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 20:02	WG1370189
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 20:02	WG1370189
Dibromomethane	U		0.117	0.500	1	10/26/2019 20:02	WG1370189
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 20:02	WG1370189
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 20:02	WG1370189
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 20:02	WG1370189
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 20:02	WG1370189
1,1-Dichloroethane	U		0.114	0.500	1	10/26/2019 20:02	WG1370189
1,2-Dichloroethane	U		0.108	0.500	1	10/26/2019 20:02	WG1370189
1,1-Dichloroethene	U		0.188	0.500	1	10/26/2019 20:02	WG1370189
cis-1,2-Dichloroethene	2.07		0.0933	0.500	1	10/26/2019 20:02	WG1370189
trans-1,2-Dichloroethene	0.278	J	0.152	0.500	1	10/26/2019 20:02	WG1370189
1,2-Dichloropropane	U		0.190	0.500	1	10/26/2019 20:02	WG1370189
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 20:02	WG1370189
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 20:02	WG1370189
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 20:02	WG1370189
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 20:02	WG1370189
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/26/2019 20:02	WG1370189
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 20:02	WG1370189
Di-isopropyl ether	U		0.0924	0.500	1	10/26/2019 20:02	WG1370189
Ethylbenzene	U		0.158	0.500	1	10/26/2019 20:02	WG1370189
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 20:02	WG1370189
2-Hexanone	U		0.757	5.00	1	10/26/2019 20:02	WG1370189
n-Hexane	U		0.305	5.00	1	10/26/2019 20:02	WG1370189
Iodomethane	U	UJ J0	0.377	10.0	1	10/26/2019 20:02	WG1370189
Isopropylbenzene	U	UJ J0	0.126	0.500	1	10/26/2019 20:02	WG1370189
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 20:02	WG1370189
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 20:02	WG1370189
Methylene Chloride	U		1.07	2.50	1	10/26/2019 20:02	WG1370189
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 20:02	WG1370189
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 20:02	WG1370189
Naphthalene	U		0.174	2.50	1	10/26/2019 20:02	WG1370189
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 20:02	WG1370189
Styrene	U		0.117	0.500	1	10/26/2019 20:02	WG1370189
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 20:02	WG1370189
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 20:02	WG1370189
1,1,2-Trichlorotrifluoroethane	U	UJ J0	0.164	0.500	1	10/26/2019 20:02	WG1370189
Tetrachloroethene	U		0.199	0.500	1	10/26/2019 20:02	WG1370189
Toluene	1.79		0.412	0.500	1	10/26/2019 20:02	WG1370189
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 20:02	WG1370189
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 20:02	WG1370189
1,1,1-Trichloroethane	U	UJ J0	0.0940	0.500	1	10/26/2019 20:02	WG1370189
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 20:02	WG1370189
Trichloroethene	U	UJ J0	0.153	0.500	1	10/26/2019 20:02	WG1370189
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 20:02	WG1370189
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 20:02	WG1370189

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 20:02	WG1370189
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 20:02	WG1370189
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 20:02	WG1370189
Vinyl acetate	U		0.645	5.00	1	10/26/2019 20:02	WG1370189
Vinyl chloride	3.56		0.118	0.500	1	10/26/2019 20:02	WG1370189
Xylenes, Total	U		0.316	1.50	1	10/26/2019 20:02	WG1370189
(S) Toluene-d8	*91.6*			*80.0-120*		*10/26/2019 20:02*	WG1370189
(S) 4-Bromofluorobenzene	*89.3*			*77.0-126*		*10/26/2019 20:02*	WG1370189
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/26/2019 20:02*	WG1370189

JC 12/9/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	203000		2710	20000	1	10/24/2019 18:16	WG1368516

Sample Narrative:

L1151886-04 WG1368516: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	13500		51.9	1000	1	10/19/2019 17:26	WG1365799
Nitrate	U		22.7	100	1	10/19/2019 17:26	WG1365799
Sulfate	5970		77.4	5000	1	10/19/2019 17:26	WG1365799

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2300	~~B~~	102	1000	1	10/25/2019 15:55	WG1368322

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1330		150	1000	10	10/28/2019 11:25	WG1366331
Manganese	268		2.50	50.0	10	10/28/2019 11:25	WG1366331

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/25/2019 00:23	WG1368064
(S) a,a,a-Trifluorotoluene(FID)	*96.6*			*78.0-120*		*10/25/2019 00:23*	WG1368064

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	316		0.287	0.678	1	10/22/2019 08:26	WG1366962
Ethane	U		0.296	1.29	1	10/22/2019 08:26	WG1366962
Ethene	23.7		0.422	1.27	1	10/22/2019 08:26	WG1366962

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.88	J	1.05	25.0	1	10/26/2019 20:22	WG1370189
Acrylonitrile	U		0.873	5.00	1	10/26/2019 20:22	WG1370189
Benzene	U		0.0896	0.500	1	10/26/2019 20:22	WG1370189
Bromobenzene	U		0.133	0.500	1	10/26/2019 20:22	WG1370189
Bromodichloromethane	U		0.0800	0.500	1	10/26/2019 20:22	WG1370189
Bromochloromethane	U		0.145	0.500	1	10/26/2019 20:22	WG1370189
Bromoform	U		0.186	0.500	1	10/26/2019 20:22	WG1370189
Bromomethane	U	UJ J0	0.157	2.50	1	10/26/2019 20:22	WG1370189
n-Butylbenzene	U		0.143	0.500	1	10/26/2019 20:22	WG1370189
sec-Butylbenzene	U		0.134	0.500	1	10/26/2019 20:22	WG1370189
tert-Butylbenzene	U		0.183	0.500	1	10/26/2019 20:22	WG1370189
Carbon disulfide	U		0.101	0.500	1	10/26/2019 20:22	WG1370189
Carbon tetrachloride	U		0.159	0.500	1	10/26/2019 20:22	WG1370189

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/26/2019 20:22	WG1370189
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 20:22	WG1370189
Chloroethane	U		0.141	2.50	1	10/26/2019 20:22	WG1370189
Chloroform	U		0.0860	0.500	1	10/26/2019 20:22	WG1370189
Chloromethane	U		0.153	1.25	1	10/26/2019 20:22	WG1370189
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 20:22	WG1370189
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 20:22	WG1370189
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 20:22	WG1370189
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 20:22	WG1370189
Dibromomethane	U		0.117	0.500	1	10/26/2019 20:22	WG1370189
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 20:22	WG1370189
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 20:22	WG1370189
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 20:22	WG1370189
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 20:22	WG1370189
1,1-Dichloroethane	U		0.114	0.500	1	10/26/2019 20:22	WG1370189
1,2-Dichloroethane	U		0.108	0.500	1	10/26/2019 20:22	WG1370189
1,1-Dichloroethene	0.799		0.188	0.500	1	10/26/2019 20:22	WG1370189
cis-1,2-Dichloroethene	16.3		0.0933	0.500	1	10/26/2019 20:22	WG1370189
trans-1,2-Dichloroethene	0.329	J	0.152	0.500	1	10/26/2019 20:22	WG1370189
1,2-Dichloropropane	U		0.190	0.500	1	10/26/2019 20:22	WG1370189
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 20:22	WG1370189
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 20:22	WG1370189
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 20:22	WG1370189
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 20:22	WG1370189
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/26/2019 20:22	WG1370189
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 20:22	WG1370189
Di-isopropyl ether	U		0.0924	0.500	1	10/26/2019 20:22	WG1370189
Ethylbenzene	U		0.158	0.500	1	10/26/2019 20:22	WG1370189
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 20:22	WG1370189
2-Hexanone	U		0.757	5.00	1	10/26/2019 20:22	WG1370189
n-Hexane	U		0.305	5.00	1	10/26/2019 20:22	WG1370189
Iodomethane	U	UJ J0	0.377	10.0	1	10/26/2019 20:22	WG1370189
Isopropylbenzene	U	UJ J0	0.126	0.500	1	10/26/2019 20:22	WG1370189
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 20:22	WG1370189
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 20:22	WG1370189
Methylene Chloride	U		1.07	2.50	1	10/26/2019 20:22	WG1370189
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 20:22	WG1370189
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 20:22	WG1370189
Naphthalene	U		0.174	2.50	1	10/26/2019 20:22	WG1370189
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 20:22	WG1370189
Styrene	U		0.117	0.500	1	10/26/2019 20:22	WG1370189
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 20:22	WG1370189
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 20:22	WG1370189
1,1,2-Trichlorotrifluoroethane	U	UJ J0	0.164	0.500	1	10/26/2019 20:22	WG1370189
Tetrachloroethene	U		0.199	0.500	1	10/26/2019 20:22	WG1370189
Toluene	U		0.412	0.500	1	10/26/2019 20:22	WG1370189
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 20:22	WG1370189
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 20:22	WG1370189
1,1,1-Trichloroethane	U	UJ J0	0.0940	0.500	1	10/26/2019 20:22	WG1370189
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 20:22	WG1370189
Trichloroethene	1.54	J J0	0.153	0.500	1	10/26/2019 20:22	WG1370189
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 20:22	WG1370189
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 20:22	WG1370189
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 20:22	WG1370189
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 20:22	WG1370189
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 20:22	WG1370189

JC 12/9/19

MW-104-101819

Collected date/time: 10/18/19 13:00

SAMPLE RESULTS - 04

L1151886

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/26/2019 20:22	WG1370189
Vinyl chloride	33.2		0.118	0.500	1	10/26/2019 20:22	WG1370189
Xylenes, Total	U		0.316	1.50	1	10/26/2019 20:22	WG1370189
(S) Toluene-d8	*94.7*			*80.0-120*		*10/26/2019 20:22*	WG1370189
(S) 4-Bromofluorobenzene	*91.6*			*77.0-126*		*10/26/2019 20:22*	WG1370189
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/26/2019 20:22*	WG1370189

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	276000		2710	20000	1	10/24/2019 18:24	WG1368516

Sample Narrative:

L1151886-05 WG1368516: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	25800		51.9	1000	1	10/19/2019 17:38	WG1365799
Nitrate	U		22.7	100	1	10/19/2019 17:38	WG1365799
Sulfate	17000		77.4	5000	1	10/19/2019 17:38	WG1365799

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2320	~~B~~	102	1000	1	10/25/2019 16:09	WG1368322

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2640		150	1000	10	10/28/2019 11:29	WG1366331
Manganese	792		2.50	50.0	10	10/28/2019 11:29	WG1366331

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/25/2019 00:50	WG1368064
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*78.0-120*		*10/25/2019 00:50*	WG1368064

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	47.2		0.287	0.678	1	10/22/2019 08:30	WG1366962
Ethane	U		0.296	1.29	1	10/22/2019 08:30	WG1366962
Ethene	U		0.422	1.27	1	10/22/2019 08:30	WG1366962

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.01	J	1.05	25.0	1	10/26/2019 20:42	WG1370189
Acrylonitrile	U		0.873	5.00	1	10/26/2019 20:42	WG1370189
Benzene	U		0.0896	0.500	1	10/26/2019 20:42	WG1370189
Bromobenzene	U		0.133	0.500	1	10/26/2019 20:42	WG1370189
Bromodichloromethane	U		0.0800	0.500	1	10/26/2019 20:42	WG1370189
Bromochloromethane	U		0.145	0.500	1	10/26/2019 20:42	WG1370189
Bromoform	U		0.186	0.500	1	10/26/2019 20:42	WG1370189
Bromomethane	U	UJ J0	0.157	2.50	1	10/26/2019 20:42	WG1370189
n-Butylbenzene	U		0.143	0.500	1	10/26/2019 20:42	WG1370189
sec-Butylbenzene	U		0.134	0.500	1	10/26/2019 20:42	WG1370189
tert-Butylbenzene	U		0.183	0.500	1	10/26/2019 20:42	WG1370189
Carbon disulfide	U		0.101	0.500	1	10/26/2019 20:42	WG1370189
Carbon tetrachloride	U		0.159	0.500	1	10/26/2019 20:42	WG1370189

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/26/2019 20:42	WG1370189
Chlorodibromomethane	U		0.128	0.500	1	10/26/2019 20:42	WG1370189
Chloroethane	U		0.141	2.50	1	10/26/2019 20:42	WG1370189
Chloroform	U		0.0860	0.500	1	10/26/2019 20:42	WG1370189
Chloromethane	U		0.153	1.25	1	10/26/2019 20:42	WG1370189
2-Chlorotoluene	U		0.111	0.500	1	10/26/2019 20:42	WG1370189
4-Chlorotoluene	U		0.0972	0.500	1	10/26/2019 20:42	WG1370189
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/26/2019 20:42	WG1370189
1,2-Dibromoethane	U		0.193	0.500	1	10/26/2019 20:42	WG1370189
Dibromomethane	U		0.117	0.500	1	10/26/2019 20:42	WG1370189
1,2-Dichlorobenzene	U		0.101	0.500	1	10/26/2019 20:42	WG1370189
1,3-Dichlorobenzene	U		0.130	0.500	1	10/26/2019 20:42	WG1370189
1,4-Dichlorobenzene	U		0.121	0.500	1	10/26/2019 20:42	WG1370189
Dichlorodifluoromethane	U		0.127	2.50	1	10/26/2019 20:42	WG1370189
1,1-Dichloroethane	U		0.114	0.500	1	10/26/2019 20:42	WG1370189
1,2-Dichloroethane	U		0.108	0.500	1	10/26/2019 20:42	WG1370189
1,1-Dichloroethene	U		0.188	0.500	1	10/26/2019 20:42	WG1370189
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/26/2019 20:42	WG1370189
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/26/2019 20:42	WG1370189
1,2-Dichloropropane	U		0.190	0.500	1	10/26/2019 20:42	WG1370189
1,1-Dichloropropene	U		0.128	0.500	1	10/26/2019 20:42	WG1370189
1,3-Dichloropropane	U		0.147	1.00	1	10/26/2019 20:42	WG1370189
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/26/2019 20:42	WG1370189
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/26/2019 20:42	WG1370189
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/26/2019 20:42	WG1370189
2,2-Dichloropropane	U		0.0929	0.500	1	10/26/2019 20:42	WG1370189
Di-isopropyl ether	U		0.0924	0.500	1	10/26/2019 20:42	WG1370189
Ethylbenzene	U		0.158	0.500	1	10/26/2019 20:42	WG1370189
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/26/2019 20:42	WG1370189
2-Hexanone	U		0.757	5.00	1	10/26/2019 20:42	WG1370189
n-Hexane	U		0.305	5.00	1	10/26/2019 20:42	WG1370189
Iodomethane	U	UJ J0	0.377	10.0	1	10/26/2019 20:42	WG1370189
Isopropylbenzene	U	UJ J0	0.126	0.500	1	10/26/2019 20:42	WG1370189
p-Isopropyltoluene	U		0.138	0.500	1	10/26/2019 20:42	WG1370189
2-Butanone (MEK)	U		1.28	5.00	1	10/26/2019 20:42	WG1370189
Methylene Chloride	U		1.07	2.50	1	10/26/2019 20:42	WG1370189
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/26/2019 20:42	WG1370189
Methyl tert-butyl ether	U		0.102	0.500	1	10/26/2019 20:42	WG1370189
Naphthalene	U		0.174	2.50	1	10/26/2019 20:42	WG1370189
n-Propylbenzene	U		0.162	0.500	1	10/26/2019 20:42	WG1370189
Styrene	U		0.117	0.500	1	10/26/2019 20:42	WG1370189
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/26/2019 20:42	WG1370189
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/26/2019 20:42	WG1370189
1,1,2-Trichlorotrifluoroethane	U	UJ J0	0.164	0.500	1	10/26/2019 20:42	WG1370189
Tetrachloroethene	U		0.199	0.500	1	10/26/2019 20:42	WG1370189
Toluene	U		0.412	0.500	1	10/26/2019 20:42	WG1370189
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/26/2019 20:42	WG1370189
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/26/2019 20:42	WG1370189
1,1,1-Trichloroethane	U	UJ J0	0.0940	0.500	1	10/26/2019 20:42	WG1370189
1,1,2-Trichloroethane	U		0.186	0.500	1	10/26/2019 20:42	WG1370189
Trichloroethene	U	UJ J0	0.153	0.500	1	10/26/2019 20:42	WG1370189
Trichlorofluoromethane	U		0.130	2.50	1	10/26/2019 20:42	WG1370189
1,2,3-Trichloropropane	U		0.247	2.50	1	10/26/2019 20:42	WG1370189
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/26/2019 20:42	WG1370189
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/26/2019 20:42	WG1370189
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/26/2019 20:42	WG1370189

JC 12/9/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/26/2019 20:42	WG1370189
Vinyl chloride	U		0.118	0.500	1	10/26/2019 20:42	WG1370189
Xylenes, Total	U		0.316	1.50	1	10/26/2019 20:42	WG1370189
(S) Toluene-d8	*94.4*			*80.0-120*		*10/26/2019 20:42*	WG1370189
(S) 4-Bromofluorobenzene	*92.6*			*77.0-126*		*10/26/2019 20:42*	WG1370189
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/26/2019 20:42*	WG1370189

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SAMPLE RESULTS - 01

L1152333

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	589000		2710	20000	1	10/24/2019 21:24	WG1369144

Sample Narrative:

L1152333-01 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	14700		51.9	1000	1	10/23/2019 02:15	WG1367181
Nitrate	U		22.7	100	1	10/23/2019 02:15	WG1367181
Sulfate	2760	J	77.4	5000	1	10/23/2019 02:15	WG1367181

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7550		102	1000	1	10/24/2019 22:09	WG1368783

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	16500		15.0	100	1	10/26/2019 16:13	WG1368592
Manganese	2820		0.250	5.00	1	10/26/2019 16:13	WG1368592

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	21400		2.87	6.78	10	10/24/2019 11:33	WG1368615
Ethane	U		0.296	1.29	1	10/23/2019 12:12	WG1367825
Ethene	U		0.422	1.27	1	10/23/2019 12:12	WG1367825

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.45	J ~~J4~~	1.05	25.0	1	10/29/2019 05:43	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 05:43	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 05:43	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 05:43	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 05:43	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 05:43	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 05:43	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 05:43	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 05:43	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 05:43	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 05:43	WG1371177
Carbon disulfide	U		0.101	0.500	1	10/29/2019 05:43	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 05:43	WG1371177
Chlorobenzene	U		0.140	0.500	1	10/29/2019 05:43	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 05:43	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 05:43	WG1371177
Chloroform	U		0.0860	0.500	1	10/29/2019 05:43	WG1371177
Chloromethane	U UJ	J0	0.153	1.25	1	10/29/2019 05:43	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 05:43	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 05:43	WG1371177

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 05:43	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 05:43	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 05:43	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 05:43	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 05:43	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 05:43	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 05:43	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 05:43	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 05:43	WG1371177
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 05:43	WG1371177
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/29/2019 05:43	WG1371177
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2019 05:43	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 05:43	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 05:43	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 05:43	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 05:43	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 05:43	WG1371177
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/29/2019 05:43	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 05:43	WG1371177
Di-isopropyl ether	U UJ	J0	0.0924	0.500	1	10/29/2019 05:43	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 05:43	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 05:43	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 05:43	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 05:43	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 05:43	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 05:43	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 05:43	WG1371177
2-Butanone (MEK)	U UJ	J0	1.28	5.00	1	10/29/2019 05:43	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 05:43	WG1371177
4-Methyl-2-pentanone (MIBK)	U UJ	J0	0.823	5.00	1	10/29/2019 05:43	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 05:43	WG1371177
Naphthalene	0.239	J	0.174	2.50	1	10/29/2019 05:43	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 05:43	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 05:43	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 05:43	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 05:43	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 05:43	WG1371177
Tetrachloroethene	U		0.199	0.500	1	10/29/2019 05:43	WG1371177
Toluene	U		0.412	0.500	1	10/29/2019 05:43	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 05:43	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 05:43	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 05:43	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 05:43	WG1371177
Trichloroethene	U		0.153	0.500	1	10/29/2019 05:43	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 05:43	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 05:43	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 05:43	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 05:43	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 05:43	WG1371177
Vinyl acetate	U UJ	J0	0.645	5.00	1	10/29/2019 05:43	WG1371177
Vinyl chloride	U		0.118	0.500	1	10/29/2019 05:43	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 05:43	WG1371177
(S) Toluene-d8	*94.8*			*80.0-120*		*10/29/2019 05:43*	WG1371177
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*10/29/2019 05:43*	WG1371177
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*		*10/29/2019 05:43*	WG1371177

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	512000		2710	20000	1	10/24/2019 21:38	WG1369144

Sample Narrative:

L1152333-02 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	24800		51.9	1000	1	10/23/2019 02:31	WG1367181
Nitrate	U		22.7	100	1	10/23/2019 02:31	WG1367181
Sulfate	47800		77.4	5000	1	10/23/2019 02:31	WG1367181

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	343000		5100	50000	50	10/24/2019 23:36	WG1368783

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	13200		15.0	100	1	10/26/2019 16:17	WG1368592
Manganese	496		0.250	5.00	1	10/26/2019 16:17	WG1368592

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	10000		2.87	6.78	10	10/24/2019 11:39	WG1368615
Ethane	59.2		0.296	1.29	1	10/23/2019 13:03	WG1367825
Ethene	27.5		0.422	1.27	1	10/23/2019 13:03	WG1367825

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	1.37	J ~~J4~~	1.05	25.0	1	10/29/2019 06:03	WG1371177	
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 06:03	WG1371177	
Benzene	3.80		0.0896	0.500	1	10/29/2019 06:03	WG1371177	
Bromobenzene	U		0.133	0.500	1	10/29/2019 06:03	WG1371177	
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 06:03	WG1371177	
Bromochloromethane	U		0.145	0.500	1	10/29/2019 06:03	WG1371177	
Bromoform	U		0.186	0.500	1	10/29/2019 06:03	WG1371177	
Bromomethane	U		0.157	2.50	1	10/29/2019 06:03	WG1371177	
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 06:03	WG1371177	
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 06:03	WG1371177	
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 06:03	WG1371177	
Carbon disulfide	U		0.101	0.500	1	10/29/2019 06:03	WG1371177	
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 06:03	WG1371177	
Chlorobenzene	U		0.140	0.500	1	10/29/2019 06:03	WG1371177	
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 06:03	WG1371177	
Chloroethane	U		0.141	2.50	1	10/29/2019 06:03	WG1371177	
Chloroform	U		0.0860	0.500	1	10/29/2019 06:03	WG1371177	
Chloromethane	U	UJ J0	0.153	1.25	1	10/29/2019 06:03	WG1371177	JC 12/9/19
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 06:03	WG1371177	
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 06:03	WG1371177	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 06:03	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 06:03	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 06:03	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 06:03	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 06:03	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 06:03	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 06:03	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 06:03	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 06:03	WG1371177
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 06:03	WG1371177
cis-1,2-Dichloroethene	20.1		0.0933	0.500	1	10/29/2019 06:03	WG1371177
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2019 06:03	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 06:03	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 06:03	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 06:03	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 06:03	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 06:03	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 06:03	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 06:03	WG1371177
Di-isopropyl ether	0.194	J J J0	0.0924	0.500	1	10/29/2019 06:03	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 06:03	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 06:03	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 06:03	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 06:03	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 06:03	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 06:03	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 06:03	WG1371177
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 06:03	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 06:03	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 06:03	WG1371177
Methyl tert-butyl ether	0.252	J	0.102	0.500	1	10/29/2019 06:03	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 06:03	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 06:03	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 06:03	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 06:03	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 06:03	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 06:03	WG1371177
Tetrachloroethene	U		0.199	0.500	1	10/29/2019 06:03	WG1371177
Toluene	U		0.412	0.500	1	10/29/2019 06:03	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 06:03	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 06:03	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 06:03	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 06:03	WG1371177
Trichloroethene	U		0.153	0.500	1	10/29/2019 06:03	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 06:03	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 06:03	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 06:03	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 06:03	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 06:03	WG1371177
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/29/2019 06:03	WG1371177
Vinyl chloride	88.2		0.118	0.500	1	10/29/2019 06:03	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 06:03	WG1371177
(S) Toluene-d8	*94.4*			*80.0-120*		*10/29/2019 06:03*	WG1371177
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*10/29/2019 06:03*	WG1371177
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*10/29/2019 06:03*	WG1371177

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Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	108000		2710	20000	1	10/24/2019 21:46	WG1369144

Sample Narrative:

L1152333-03 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	6000		51.9	1000	1	10/23/2019 02:48	WG1367181
Nitrate	U		22.7	100	1	10/23/2019 02:48	WG1367181
Sulfate	2560	J	77.4	5000	1	10/23/2019 02:48	WG1367181

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1910	~~B~~	102	1000	1	10/26/2019 13:31	WG1370126

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	608		15.0	100	1	10/26/2019 16:20	WG1368592
Manganese	589		0.250	5.00	1	10/26/2019 16:20	WG1368592

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	45.6		0.287	0.678	1	10/23/2019 13:15	WG1367825
Ethane	U		0.296	1.29	1	10/23/2019 13:15	WG1367825
Ethene	U		0.422	1.27	1	10/23/2019 13:15	WG1367825

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.58	J ~~J4~~	1.05	25.0	1	10/29/2019 06:23	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 06:23	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 06:23	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 06:23	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 06:23	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 06:23	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 06:23	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 06:23	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 06:23	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 06:23	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 06:23	WG1371177
Carbon disulfide	U		0.101	0.500	1	10/29/2019 06:23	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 06:23	WG1371177
Chlorobenzene	U		0.140	0.500	1	10/29/2019 06:23	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 06:23	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 06:23	WG1371177
Chloroform	U		0.0860	0.500	1	10/29/2019 06:23	WG1371177
Chloromethane	U	UJ J0	0.153	1.25	1	10/29/2019 06:23	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 06:23	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 06:23	WG1371177

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 06:23	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 06:23	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 06:23	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 06:23	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 06:23	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 06:23	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 06:23	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 06:23	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 06:23	WG1371177
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 06:23	WG1371177
cis-1,2-Dichloroethene	10.5		0.0933	0.500	1	10/29/2019 06:23	WG1371177
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2019 06:23	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 06:23	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 06:23	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 06:23	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 06:23	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 06:23	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 06:23	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 06:23	WG1371177
Di-isopropyl ether	U	UJ J0	0.0924	0.500	1	10/29/2019 06:23	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 06:23	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 06:23	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 06:23	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 06:23	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 06:23	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 06:23	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 06:23	WG1371177
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 06:23	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 06:23	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 06:23	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 06:23	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 06:23	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 06:23	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 06:23	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 06:23	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 06:23	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 06:23	WG1371177
Tetrachloroethene	U		0.199	0.500	1	10/29/2019 06:23	WG1371177
Toluene	U		0.412	0.500	1	10/29/2019 06:23	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 06:23	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 06:23	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 06:23	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 06:23	WG1371177
Trichloroethene	U		0.153	0.500	1	10/29/2019 06:23	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 06:23	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 06:23	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 06:23	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 06:23	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 06:23	WG1371177
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/29/2019 06:23	WG1371177
Vinyl chloride	0.140	J	0.118	0.500	1	10/29/2019 06:23	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 06:23	WG1371177
(S) Toluene-d8	*97.4*			*80.0-120*		*10/29/2019 06:23*	WG1371177
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*10/29/2019 06:23*	WG1371177
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*10/29/2019 06:23*	WG1371177

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	58600		2710	20000	1	10/24/2019 21:55	WG1369144

Sample Narrative:

L1152333-04 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	5470		51.9	1000	1	10/23/2019 03:04	WG1367181
Nitrate	U		22.7	100	1	10/23/2019 03:04	WG1367181
Sulfate	1820	J	77.4	5000	1	10/23/2019 03:04	WG1367181

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	11100		102	1000	1	10/26/2019 13:54	WG1370126

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1700		15.0	100	1	10/26/2019 16:24	WG1368592
Manganese	169		0.250	5.00	1	10/26/2019 16:24	WG1368592

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	96.6 U	B J	31.6	100	1	11/02/2019 23:35	WG1373020
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*78.0-120*		*11/02/2019 23:35*	WG1373020

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	388		0.287	0.678	1	10/23/2019 13:29	WG1367825
Ethane	5.75		0.296	1.29	1	10/23/2019 13:29	WG1367825
Ethene	U		0.422	1.27	1	10/23/2019 13:29	WG1367825

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.72	J ~~J4~~	1.05	25.0	1	10/29/2019 06:43	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 06:43	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 06:43	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 06:43	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 06:43	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 06:43	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 06:43	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 06:43	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 06:43	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 06:43	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 06:43	WG1371177
Carbon disulfide	U		0.101	0.500	1	10/29/2019 06:43	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 06:43	WG1371177

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MW-112-102119

Collected date/time: 10/21/19 14:35

SAMPLE RESULTS - 04

L1152333

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/29/2019 06:43	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 06:43	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 06:43	WG1371177
Chloroform	U		0.0860	0.500	1	10/29/2019 06:43	WG1371177
Chloromethane	U	UJ J0	0.153	1.25	1	10/29/2019 06:43	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 06:43	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 06:43	WG1371177
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 06:43	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 06:43	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 06:43	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 06:43	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 06:43	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 06:43	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 06:43	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 06:43	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 06:43	WG1371177
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 06:43	WG1371177
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/29/2019 06:43	WG1371177
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2019 06:43	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 06:43	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 06:43	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 06:43	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 06:43	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 06:43	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 06:43	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 06:43	WG1371177
Di-isopropyl ether	U	UJ J0	0.0924	0.500	1	10/29/2019 06:43	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 06:43	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 06:43	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 06:43	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 06:43	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 06:43	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 06:43	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 06:43	WG1371177
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 06:43	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 06:43	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 06:43	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 06:43	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 06:43	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 06:43	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 06:43	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 06:43	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 06:43	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 06:43	WG1371177
Tetrachloroethene	U		0.199	0.500	1	10/29/2019 06:43	WG1371177
Toluene	U		0.412	0.500	1	10/29/2019 06:43	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 06:43	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 06:43	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 06:43	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 06:43	WG1371177
Trichloroethene	U		0.153	0.500	1	10/29/2019 06:43	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 06:43	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 06:43	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 06:43	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 06:43	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 06:43	WG1371177

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	10/29/2019 06:43	WG1371177
Vinyl chloride	U			0.118	0.500	1	10/29/2019 06:43	WG1371177
Xylenes, Total	U			0.316	1.50	1	10/29/2019 06:43	WG1371177
(S) Toluene-d8	*96.1*				*80.0-120*		*10/29/2019 06:43*	WG1371177
(S) 4-Bromofluorobenzene	*108*				*77.0-126*		*10/29/2019 06:43*	WG1371177
(S) 1,2-Dichloroethane-d4	*97.8*				*70.0-130*		*10/29/2019 06:43*	WG1371177

JC 12/9/19

MEMORANDUM

TO:	Project File	**DATE:**	December 9, 2019
FROM:	Jessie Compeau		
SUBJECT:	Laboratory Data Validation Review		
PROJECT:	American Linen Data Validation		
PROJECT #:	1413.001.02.501E		
TASK:	EIM Data Validation Level EPA2A for October 2019 – Groundwater Samples		
LAB:	Pace Sample Delivery Groups (SDGs): L1152340 and L1152823		

Thirteen (13) groundwater samples (including two field duplicates), one (1) equipment blank, and two (4) trip blanks were collected as part of the Remedial Investigation (RI) sampling event at the Former American Linen Supply Site, in Seattle, Washington, October 21-22, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B.

The RI sampling was conducted during the month of October and results are reported in multiple SDGs from Pace. Pace SDGs are reviewed in groups of approximately 2-4 per each data validation report. Group 4 analytical results are reported in SDGs L1152340 and L1152823. The quality assurance review of the laboratory data associated with Group 4 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review

(USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested with the following exceptions:

- SDG L1152823: Per PES, the trip blank could not be analyzed for USEPA Method 8260 due to container breakage. This information is not included in Pace's sample receiving notes. No action is taken other than to note that this has a limited to no impact to this sampling event.

- SDG L1152823: Sample MW-116-202219 volume was not available for VOC or NWTPH-Gx analysis. Chain of custody documentation indicates that all five vials were received empty. Sample MW-116 Sample MW-116 was resampled on October 31st and is included in SDG L1156109.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. Samples were received in good condition except for issues mentioned in the Completeness section. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

NWTPH-Gx Method:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:
All samples were analyzed within the USEPA recommended holding time for iron and manganese of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however Pace's notes indicate the following:

- SDGs L1152340 and L1152823- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for compounds associated with the trip blanks. The compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. No action is taken other than to note this.

- SDGs L1152340 and L1152823 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ) however in some cases blank contamination qualifiers may supersede these qualifiers. Refer to Method Blank and/or Trip Blank sections of this report for additional details.

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDGs L1152340 and L1152823 – Analytical batch WG1371769: A low level of cis-1,2-dUichloroethene is detected in the method blank. No action is taken since this compound is detected greater than the RDL in all associated samples.

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1152340 – Analytical batch WG1371615: Gasoline is detected slightly above the RDL in the method blank and slightly below the RDL in the trip blank. **Associated gasoline detections in sample MW-302-102119, MW-304-102119, MW-303-102119, and R-MW5-102119 are below the RDL and are qualified as not detected (U).**

- SDG L1152340 – Analytical batch WG1373020: Gasoline is detected slightly below the RDL in the method and trip blanks. **Associated gasoline detection in sample MW-138-102119 is below the RDL and qualified as not detected (U).**

- SDG L1152823 – Analytical batch WG1371615: Gasoline is detected slightly above the RDL in the method blank and slightly below the RDL in both the equipment and trip blanks. **Associated gasoline detections in samples MW-105-102219 and MW-919-102219 are below the RDL and qualified as not detected (U).**

- SDG L1152823 – Analytical batch WG1373020: Gasoline is detected slightly below the RDL in the method and trip blanks. **Associated gasoline detections in samples MW-105-102219 and MW-919-102219 are below the RDL and qualified as not detected (U).**

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020B and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL. General chemistry and metal blank detections are shown below:

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1152340	WG1370125	9060A	TOC	304	J	1000	ug/L	NO
L1152340	WG1368592	6020B	Manganese	0.346	J	5.00	ug/L	NO
L1152823	WG1370126	9060A	TOC	434	J	1000	ug/L	NO
L1152823	WG1368595	6020B	Manganese	0.427	J	5.00	ug/L	NO

Trip Blank Results

USEPA Method 8260C and NWTPH-Gx:
Two trip blanks were collected and submitted for analysis. As mentioned earlier trip blank associated with SDG L1152823 was analyzed for NWTPH-Gx only. The target analytes were not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1152340 – Analytical batch WG1371615: Gasoline is detected slightly above the RDL in the method blank and slightly below the RDL in the trip blank. **Associated gasoline detections in samples MW-302-102119, MW-304-102119, MW-303-102119, and R-MW5-102119 are below the RDL and are qualified as not detected (U).**

- SDG L1152823 – Analytical batch WG1371615: Gasoline is detected slightly above the RDL in the method blank and slightly below the RDL in both the equipment and trip blanks. **Associated gasoline detections in samples MW-105-102219 and MW-919-102219 is below the RDL and qualified as not detected (U).**

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:
One equipment blank (EQ-102219 from SDG L1152823) was collected and analyzed for VOCs, gasoline, dissolved gases (methane, ethane, and ethene), metals (iron and manganese), wet chemistry parameters (alkalinity, chloride, nitrate, sulfate, and TOC). Review of the equipment blank results are as follows:

- SDG L1152823: An equipment blank sample (EQ-102219) was collected on October 22, 2019 from the bladder pump associated with samples BB-8-102219 and MW-105-102219, and their associated field duplicate samples (MW-918-102219 and MW-919-102219). The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

    - Low levels of alkalinity, chloride, sulfate, TOC, iron, and manganese are detected in the equipment blank. No action was taken on this basis since associated detections are either above the RDL or are not detected.

    - Low levels of acetone and chloroform are detected in the equipment blank. **Acetone is detected below the RDL in samples BB-8-102219, MW-918-102219, MW-105-102219, and MW-919-102219. Acetone detections are qualified as not detected (U) due to blank contamination.** No action was taken for chloroform since it was not detected in the associated samples.

    - Methane was detected at 32.7 µg/L and well above the RDL (0.678 µg/L) in the equipment blank. Methane was detected in samples BB-8-102219, MW-105-102219, and MW-919-102219. No action is taken is taken for samples MW-105-102219, and MW-919-102219 since methane detections are far greater than the methane detection in the equipment blank. **Sample BB-8-102219 methane result is estimated and qualified (J+) because it was detected at 74.8 µg/L, may have been impacted by the blank contamination, and was not detected in the associated field duplicate sample (MW-918-102219).**

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1152823: Samples BB-8-102219 and MW-918-102219; and
- SDG L1152823: Samples MW-105-102219 and MW-919-102219

Target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 1x RDL for groundwater results <5X the RDL) for the field duplicate pair with the following exceptions:

- **SDG L1152823: Samples BB-8-102219 and MW-918-102219 methane RPD results are greater than 30% and qualified as estimated (J+/UJ).**

Laboratory Duplicate Analyses

USEPA Method 8260C:
Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

NWTPH-Gx Method:
Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:
Laboratory duplicate samples were not analyzed. Refer to LCS/LCSD or MS/MSD results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits with the following discussions:

- SDG L1152340: Sulfate duplicate analysis was performed on a non-client sample with poor RPD result. No action is taken since the other batch QC laboratory duplicate result is within criteria.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all the analyses with the following exceptions:

- SDG L1152823 – Analytical Batch WG1371769: Sample MW-113-102219 surrogate (4-bromofluorobenzene) recovery is elevated and above laboratory control limit criteria. **Sample MW-113-102219 cis-1,2-dichloroethene result is estimated (J) due to high surrogate recovery.** No action was taken for tetrachloroethene as it is not detected in sample MW-113-102219.

- SDG L1152823 – Analytical Batch WG1371769: Sample BB-8-102219 surrogate (4-bromofluorobenzene) recovery is below laboratory control limit criteria. **Sample MW-113-102219 cis-1,2-dichloroethene and tetrachloroethene results are estimated (J) due to low surrogate recovery.**

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all analyses.

Laboratory Control Samples

USEPA Method 8260C:
Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD % Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussion:

- SDGs L1152340 and L1152823 - Analytical batch WG1371177. LCS % recoveries for acetone, acrylonitrile, bromodichloromethane, and 1,1,1-trichloroethane recovery are above laboratory acceptance criteria and laboratory qualified (J4). Acetone and acrylonitrile LCS results are within recovery criteria and are incorrectly qualified (J4) by Pace. No action is taken other than to line out these qualifiers (J4) on the Form 1s and remove laboratory qualifications from the EDD results. No action is taken for bromodichloromethane, and 1,1,1-trichloroethane since these compounds are not detected in the associated samples.

- SDG L1152823 - Analytical batch WG1373274. LCSD % recoveries for bromobenzene and 2-chlorotoluene are slightly below laboratory acceptance criteria and laboratory qualified (J4). No action is taken with associated sample (MW-919-102219) and equipment blank (EQ-102219) since LCSD recoveries are just below control limit criteria and LCS results are within criteria.

NWTPH-Gx Method:
The LCS % Rs for the target compound (gasoline) are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:
The LCS/LCSD % Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS results and field duplicate samples for accuracy and precision data.

NWTPH-Gx Method:
MS/MSD analyses were not performed. Refer to LCS results and field duplicate samples for accuracy and precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
MS/MSD analyses were not performed. Refer to LCS results and field duplicate samples for accuracy and precision data.

USEPA Method 6020B:
MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

- Multiple SDGs: Selected sample narratives for alkalinity results indicate that several sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. No action is taken other than to note this with the following discussion:

- SDG L1152823: Sample MW-113-102219 VOC reporting limits for certain targets are elevated due elevated target compounds and dilutions.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	129000		2710	20000	1	10/24/2019 22:03	WG1369144

Sample Narrative:

L1152340-01 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	14200		51.9	1000	1	10/23/2019 04:10	WG1367181
Nitrate	U		22.7	100	1	10/23/2019 04:10	WG1367181
Sulfate	51900		77.4	5000	1	10/23/2019 04:10	WG1367181

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1100	~~B~~	102	1000	1	10/26/2019 12:44	WG1370125

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3830		15.0	100	1	10/26/2019 16:35	WG1368592
Manganese	504		0.250	5.00	1	10/26/2019 16:35	WG1368592

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	92.7	U ~~B J~~	31.6	100	1	11/02/2019 23:56	WG1373020
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*78.0-120*		*11/02/2019 23:56*	WG1373020

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	101		0.287	0.678	1	10/23/2019 13:40	WG1367825
Ethane	U		0.296	1.29	1	10/23/2019 13:40	WG1367825
Ethene	U		0.422	1.27	1	10/23/2019 13:40	WG1367825

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.23	J ~~J4~~	1.05	25.0	1	10/29/2019 07:04	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 07:04	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 07:04	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 07:04	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 07:04	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 07:04	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 07:04	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 07:04	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 07:04	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 07:04	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 07:04	WG1371177
Carbon disulfide	U		0.101	0.500	1	10/29/2019 07:04	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 07:04	WG1371177

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/29/2019 07:04	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 07:04	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 07:04	WG1371177
Chloroform	U		0.0860	0.500	1	10/29/2019 07:04	WG1371177
Chloromethane	U	UJ J0	0.153	1.25	1	10/29/2019 07:04	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 07:04	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 07:04	WG1371177
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 07:04	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 07:04	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 07:04	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 07:04	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 07:04	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 07:04	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 07:04	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 07:04	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 07:04	WG1371177
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 07:04	WG1371177
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/29/2019 07:04	WG1371177
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2019 07:04	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 07:04	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 07:04	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 07:04	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 07:04	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 07:04	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 07:04	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 07:04	WG1371177
Di-isopropyl ether	U	UJ J0	0.0924	0.500	1	10/29/2019 07:04	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 07:04	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 07:04	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 07:04	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 07:04	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 07:04	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 07:04	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 07:04	WG1371177
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 07:04	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 07:04	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 07:04	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 07:04	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 07:04	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 07:04	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 07:04	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 07:04	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 07:04	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 07:04	WG1371177
Tetrachloroethene	U		0.199	0.500	1	10/29/2019 07:04	WG1371177
Toluene	U		0.412	0.500	1	10/29/2019 07:04	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 07:04	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 07:04	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 07:04	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 07:04	WG1371177
Trichloroethene	U		0.153	0.500	1	10/29/2019 07:04	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 07:04	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 07:04	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 07:04	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 07:04	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 07:04	WG1371177

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U UJ	J0	0.645	5.00	1	10/29/2019 07:04	WG1371177
Vinyl chloride	U		0.118	0.500	1	10/29/2019 07:04	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 07:04	WG1371177
(S) Toluene-d8	*100*			*80.0-120*		*10/29/2019 07:04*	WG1371177
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*10/29/2019 07:04*	WG1371177
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/29/2019 07:04*	WG1371177

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	311000		2710	20000	1	10/24/2019 22:11	WG1369144

Sample Narrative:

L1152340-02 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	20200		51.9	1000	1	10/23/2019 04:26	WG1367181
Nitrate	U		22.7	100	1	10/23/2019 04:26	WG1367181
Sulfate	26800		77.4	5000	1	10/23/2019 04:26	WG1367181

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8100		102	1000	1	10/26/2019 13:00	WG1370125

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2260		15.0	100	1	10/26/2019 16:39	WG1368592
Manganese	295		0.250	5.00	1	10/26/2019 16:39	WG1368592

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	98.5 U	~~B J~~	31.6	100	1	10/31/2019 04:46	WG1371615
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*78.0-120*		*10/31/2019 04:46*	WG1371615

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	129		0.287	0.678	1	10/23/2019 13:42	WG1367825
Ethane	3.74		0.296	1.29	1	10/23/2019 13:42	WG1367825
Ethene	U		0.422	1.27	1	10/23/2019 13:42	WG1367825

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.19	J ~~J4~~	1.05	25.0	1	10/29/2019 07:24	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 07:24	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 07:24	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 07:24	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 07:24	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 07:24	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 07:24	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 07:24	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 07:24	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 07:24	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 07:24	WG1371177
Carbon disulfide	0.357	J	0.101	0.500	1	10/29/2019 07:24	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 07:24	WG1371177

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Chlorobenzene	U		0.140	0.500	1	10/29/2019 07:24	WG1371177	
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 07:24	WG1371177	
Chloroethane	U		0.141	2.50	1	10/29/2019 07:24	WG1371177	
Chloroform	U		0.0860	0.500	1	10/29/2019 07:24	WG1371177	
Chloromethane	U	UJ J0	0.153	1.25	1	10/29/2019 07:24	WG1371177	
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 07:24	WG1371177	
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 07:24	WG1371177	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 07:24	WG1371177	
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 07:24	WG1371177	
Dibromomethane	U		0.117	0.500	1	10/29/2019 07:24	WG1371177	
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 07:24	WG1371177	
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 07:24	WG1371177	
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 07:24	WG1371177	
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 07:24	WG1371177	
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 07:24	WG1371177	
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 07:24	WG1371177	
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 07:24	WG1371177	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/29/2019 07:24	WG1371177	
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2019 07:24	WG1371177	
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 07:24	WG1371177	
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 07:24	WG1371177	
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 07:24	WG1371177	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 07:24	WG1371177	
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 07:24	WG1371177	
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 07:24	WG1371177	
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 07:24	WG1371177	
Di-isopropyl ether	U	UJ J0	0.0924	0.500	1	10/29/2019 07:24	WG1371177	
Ethylbenzene	U		0.158	0.500	1	10/29/2019 07:24	WG1371177	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 07:24	WG1371177	
2-Hexanone	U		0.757	5.00	1	10/29/2019 07:24	WG1371177	
n-Hexane	U		0.305	5.00	1	10/29/2019 07:24	WG1371177	
Iodomethane	U		0.377	10.0	1	10/29/2019 07:24	WG1371177	
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 07:24	WG1371177	
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 07:24	WG1371177	
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 07:24	WG1371177	
Methylene Chloride	U		1.07	2.50	1	10/29/2019 07:24	WG1371177	
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 07:24	WG1371177	
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 07:24	WG1371177	
Naphthalene	U		0.174	2.50	1	10/29/2019 07:24	WG1371177	
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 07:24	WG1371177	
Styrene	U		0.117	0.500	1	10/29/2019 07:24	WG1371177	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 07:24	WG1371177	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 07:24	WG1371177	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 07:24	WG1371177	
Tetrachloroethene	U		0.199	0.500	1	10/29/2019 07:24	WG1371177	
Toluene	U		0.412	0.500	1	10/29/2019 07:24	WG1371177	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 07:24	WG1371177	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 07:24	WG1371177	
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 07:24	WG1371177	JC 12/9/19
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 07:24	WG1371177	
Trichloroethene	U		0.153	0.500	1	10/29/2019 07:24	WG1371177	
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 07:24	WG1371177	
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 07:24	WG1371177	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 07:24	WG1371177	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 07:24	WG1371177	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 07:24	WG1371177	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	10/29/2019 07:24	WG1371177
Vinyl chloride	U			0.118	0.500	1	10/29/2019 07:24	WG1371177
Xylenes, Total	U			0.316	1.50	1	10/29/2019 07:24	WG1371177
(S) Toluene-d8	*101*				*80.0-120*		*10/29/2019 07:24*	WG1371177
(S) 4-Bromofluorobenzene	*106*				*77.0-126*		*10/29/2019 07:24*	WG1371177
(S) 1,2-Dichloroethane-d4	*98.8*				*70.0-130*		*10/29/2019 07:24*	WG1371177

JC 12/9/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	153000		2710	20000	1	10/24/2019 22:20	WG1369144

Sample Narrative:

L1152340-03 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	12100		51.9	1000	1	10/23/2019 05:32	WG1367181
Nitrate	U		22.7	100	1	10/23/2019 05:32	WG1367181
Sulfate	16200		77.4	5000	1	10/23/2019 05:32	WG1367181

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4240		102	1000	1	10/26/2019 13:15	WG1370125

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	5820		15.0	100	1	10/26/2019 16:42	WG1368592
Manganese	455		0.250	5.00	1	10/26/2019 16:42	WG1368592

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	97.9	U ~~B J~~	31.6	100	1	10/31/2019 05:08	WG1371615
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*78.0-120*		*10/31/2019 05:08*	WG1371615

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	31.9		0.287	0.678	1	10/23/2019 13:57	WG1367825
Ethane	U		0.296	1.29	1	10/23/2019 13:57	WG1367825
Ethene	U		0.422	1.27	1	10/23/2019 13:57	WG1367825

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.66	J ~~J4~~	1.05	25.0	1	10/29/2019 07:44	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 07:44	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 07:44	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 07:44	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 07:44	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 07:44	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 07:44	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 07:44	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 07:44	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 07:44	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 07:44	WG1371177
Carbon disulfide	0.290	J	0.101	0.500	1	10/29/2019 07:44	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 07:44	WG1371177

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/29/2019 07:44	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 07:44	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 07:44	WG1371177
Chloroform	U		0.0860	0.500	1	10/29/2019 07:44	WG1371177
Chloromethane	U	UJ J0	0.153	1.25	1	10/29/2019 07:44	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 07:44	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 07:44	WG1371177
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 07:44	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 07:44	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 07:44	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 07:44	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 07:44	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 07:44	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 07:44	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 07:44	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 07:44	WG1371177
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 07:44	WG1371177
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/29/2019 07:44	WG1371177
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2019 07:44	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 07:44	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 07:44	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 07:44	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 07:44	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 07:44	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 07:44	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 07:44	WG1371177
Di-isopropyl ether	U	J0	0.0924	0.500	1	10/29/2019 07:44	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 07:44	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 07:44	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 07:44	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 07:44	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 07:44	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 07:44	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 07:44	WG1371177
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 07:44	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 07:44	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 07:44	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 07:44	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 07:44	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 07:44	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 07:44	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 07:44	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 07:44	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 07:44	WG1371177
Tetrachloroethene	U		0.199	0.500	1	10/29/2019 07:44	WG1371177
Toluene	0.728		0.412	0.500	1	10/29/2019 07:44	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 07:44	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 07:44	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 07:44	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 07:44	WG1371177
Trichloroethene	U		0.153	0.500	1	10/29/2019 07:44	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 07:44	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 07:44	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 07:44	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 07:44	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 07:44	WG1371177

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/29/2019 07:44	WG1371177
Vinyl chloride	U		0.118	0.500	1	10/29/2019 07:44	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 07:44	WG1371177
(S) Toluene-d8	*102*			*80.0-120*		*10/29/2019 07:44*	WG1371177
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*10/29/2019 07:44*	WG1371177
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*10/29/2019 07:44*	WG1371177

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	144000		2710	20000	1	10/24/2019 22:29	WG1369144

Sample Narrative:

L1152340-04 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	15200		51.9	1000	1	10/23/2019 05:48	WG1367181
Nitrate	U		22.7	100	1	10/23/2019 05:48	WG1367181
Sulfate	62200		77.4	5000	1	10/23/2019 05:48	WG1367181

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4760		102	1000	1	10/26/2019 13:28	WG1370125

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3060		15.0	100	1	10/26/2019 16:46	WG1368592
Manganese	289		0.250	5.00	1	10/26/2019 16:46	WG1368592

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	99.6 U	~~B J~~	31.6	100	1	10/31/2019 05:29	WG1371615
(S) a,a,a-Trifluorotoluene(FID)	*96.2*			*78.0-120*		*10/31/2019 05:29*	WG1371615

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	95.7		0.287	0.678	1	10/23/2019 14:00	WG1367825
Ethane	6.17		0.296	1.29	1	10/23/2019 14:00	WG1367825
Ethene	U		0.422	1.27	1	10/23/2019 14:00	WG1367825

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.03	J ~~J4~~	1.05	25.0	1	10/29/2019 08:05	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 08:05	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 08:05	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 08:05	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 08:05	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 08:05	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 08:05	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 08:05	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 08:05	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 08:05	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 08:05	WG1371177
Carbon disulfide	0.224	J	0.101	0.500	1	10/29/2019 08:05	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 08:05	WG1371177

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U			0.140	0.500	1	10/29/2019 08:05	WG1371177
Chlorodibromomethane	U			0.128	0.500	1	10/29/2019 08:05	WG1371177
Chloroethane	U			0.141	2.50	1	10/29/2019 08:05	WG1371177
Chloroform	U			0.0860	0.500	1	10/29/2019 08:05	WG1371177
Chloromethane	U	UJ	J0	0.153	1.25	1	10/29/2019 08:05	WG1371177
2-Chlorotoluene	U			0.111	0.500	1	10/29/2019 08:05	WG1371177
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2019 08:05	WG1371177
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	10/29/2019 08:05	WG1371177
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2019 08:05	WG1371177
Dibromomethane	U			0.117	0.500	1	10/29/2019 08:05	WG1371177
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2019 08:05	WG1371177
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2019 08:05	WG1371177
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2019 08:05	WG1371177
Dichlorodifluoromethane	U			0.127	2.50	1	10/29/2019 08:05	WG1371177
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2019 08:05	WG1371177
1,2-Dichloroethane	U			0.108	0.500	1	10/29/2019 08:05	WG1371177
1,1-Dichloroethene	U			0.188	0.500	1	10/29/2019 08:05	WG1371177
cis-1,2-Dichloroethene	U			0.0933	0.500	1	10/29/2019 08:05	WG1371177
trans-1,2-Dichloroethene	U			0.152	0.500	1	10/29/2019 08:05	WG1371177
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2019 08:05	WG1371177
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2019 08:05	WG1371177
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2019 08:05	WG1371177
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2019 08:05	WG1371177
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2019 08:05	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.257	5.00	1	10/29/2019 08:05	WG1371177
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2019 08:05	WG1371177
Di-isopropyl ether	U	UJ	J0	0.0924	0.500	1	10/29/2019 08:05	WG1371177
Ethylbenzene	U			0.158	0.500	1	10/29/2019 08:05	WG1371177
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2019 08:05	WG1371177
2-Hexanone	U			0.757	5.00	1	10/29/2019 08:05	WG1371177
n-Hexane	U			0.305	5.00	1	10/29/2019 08:05	WG1371177
Iodomethane	U			0.377	10.0	1	10/29/2019 08:05	WG1371177
Isopropylbenzene	U			0.126	0.500	1	10/29/2019 08:05	WG1371177
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2019 08:05	WG1371177
2-Butanone (MEK)	1.48	J	J J0	1.28	5.00	1	10/29/2019 08:05	WG1371177
Methylene Chloride	U			1.07	2.50	1	10/29/2019 08:05	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ	J0	0.823	5.00	1	10/29/2019 08:05	WG1371177
Methyl tert-butyl ether	U			0.102	0.500	1	10/29/2019 08:05	WG1371177
Naphthalene	U			0.174	2.50	1	10/29/2019 08:05	WG1371177
n-Propylbenzene	U			0.162	0.500	1	10/29/2019 08:05	WG1371177
Styrene	U			0.117	0.500	1	10/29/2019 08:05	WG1371177
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	10/29/2019 08:05	WG1371177
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	10/29/2019 08:05	WG1371177
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	10/29/2019 08:05	WG1371177
Tetrachloroethene	U			0.199	0.500	1	10/29/2019 08:05	WG1371177
Toluene	1.63			0.412	0.500	1	10/29/2019 08:05	WG1371177
1,2,3-Trichlorobenzene	U			0.164	0.500	1	10/29/2019 08:05	WG1371177
1,2,4-Trichlorobenzene	U			0.355	0.500	1	10/29/2019 08:05	WG1371177
1,1,1-Trichloroethane	U		~~J4~~	0.0940	0.500	1	10/29/2019 08:05	WG1371177
1,1,2-Trichloroethane	U			0.186	0.500	1	10/29/2019 08:05	WG1371177
Trichloroethene	U			0.153	0.500	1	10/29/2019 08:05	WG1371177
Trichlorofluoromethane	U			0.130	2.50	1	10/29/2019 08:05	WG1371177
1,2,3-Trichloropropane	U			0.247	2.50	1	10/29/2019 08:05	WG1371177
1,2,4-Trimethylbenzene	U			0.123	0.500	1	10/29/2019 08:05	WG1371177
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	10/29/2019 08:05	WG1371177
1,3,5-Trimethylbenzene	U			0.124	0.500	1	10/29/2019 08:05	WG1371177

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	10/29/2019 08:05	WG1371177
Vinyl chloride	U			0.118	0.500	1	10/29/2019 08:05	WG1371177
Xylenes, Total	U			0.316	1.50	1	10/29/2019 08:05	WG1371177
(S) Toluene-d8	*99.7*				*80.0-120*		*10/29/2019 08:05*	WG1371177
(S) 4-Bromofluorobenzene	*104*				*77.0-126*		*10/29/2019 08:05*	WG1371177
(S) 1,2-Dichloroethane-d4	*98.2*				*70.0-130*		*10/29/2019 08:05*	WG1371177

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	112000		2710	20000	1	10/24/2019 22:47	WG1369144

Sample Narrative:

L1152340-05 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	41400		51.9	1000	1	10/23/2019 06:05	WG1367181
Nitrate	U		22.7	100	1	10/23/2019 06:05	WG1367181
Sulfate	18600		77.4	5000	1	10/23/2019 06:05	WG1367181

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4440		102	1000	1	10/26/2019 13:45	WG1370125

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3000		15.0	100	1	10/26/2019 16:49	WG1368592
Manganese	1200		0.250	5.00	1	10/26/2019 16:49	WG1368592

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	95.3	U ~~B~~ J	31.6	100	1	10/31/2019 05:51	WG1371615
(S) a,a,a-Trifluorotoluene(FID)	*96.2*			*78.0-120*		*10/31/2019 05:51*	WG1371615

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	194		0.287	0.678	1	10/23/2019 14:04	WG1367825
Ethane	U		0.296	1.29	1	10/23/2019 14:04	WG1367825
Ethene	U		0.422	1.27	1	10/23/2019 14:04	WG1367825

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	~~J4~~	1.05	25.0	1	10/29/2019 08:25	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 08:25	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 08:25	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 08:25	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 08:25	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 08:25	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 08:25	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 08:25	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 08:25	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 08:25	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 08:25	WG1371177
Carbon disulfide	U		0.101	0.500	1	10/29/2019 08:25	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 08:25	WG1371177

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/29/2019 08:25	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 08:25	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 08:25	WG1371177
Chloroform	U		0.0860	0.500	1	10/29/2019 08:25	WG1371177
Chloromethane	U	UJ J0	0.153	1.25	1	10/29/2019 08:25	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 08:25	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 08:25	WG1371177
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 08:25	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 08:25	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 08:25	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 08:25	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 08:25	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 08:25	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 08:25	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 08:25	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 08:25	WG1371177
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 08:25	WG1371177
cis-1,2-Dichloroethene	0.302	J	0.0933	0.500	1	10/29/2019 08:25	WG1371177
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2019 08:25	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 08:25	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 08:25	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 08:25	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 08:25	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 08:25	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 08:25	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 08:25	WG1371177
Di-isopropyl ether	U	UJ J0	0.0924	0.500	1	10/29/2019 08:25	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 08:25	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 08:25	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 08:25	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 08:25	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 08:25	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 08:25	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 08:25	WG1371177
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 08:25	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 08:25	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 08:25	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 08:25	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 08:25	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 08:25	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 08:25	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 08:25	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 08:25	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 08:25	WG1371177
Tetrachloroethene	0.523		0.199	0.500	1	10/29/2019 08:25	WG1371177
Toluene	U		0.412	0.500	1	10/29/2019 08:25	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 08:25	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 08:25	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 08:25	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 08:25	WG1371177
Trichloroethene	U		0.153	0.500	1	10/29/2019 08:25	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 08:25	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 08:25	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 08:25	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 08:25	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 08:25	WG1371177

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/29/2019 08:25	WG1371177
Vinyl chloride	U		0.118	0.500	1	10/29/2019 08:25	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 08:25	WG1371177
(S) Toluene-d8	*100*			*80.0-120*		*10/29/2019 08:25*	WG1371177
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*10/29/2019 08:25*	WG1371177
(S) 1,2-Dichloroethane-d4	*97.9*			*70.0-130*		*10/29/2019 08:25*	WG1371177

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FMW-129-102119
Collected date/time: 10/21/19 12:25

SAMPLE RESULTS - 07

L1152340

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	209000		2710	20000	1	10/24/2019 22:55	WG1369144

Sample Narrative:

L1152340-07 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	23600		51.9	1000	1	10/23/2019 06:21	WG1367181
Nitrate	639		22.7	100	1	10/23/2019 06:21	WG1367181
Sulfate	82400		77.4	5000	1	10/23/2019 06:21	WG1367181

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1520	~~B~~	102	1000	1	10/26/2019 15:12	WG1370125

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	18900		15.0	100	1	10/26/2019 16:52	WG1368592
Manganese	648		0.250	5.00	1	10/26/2019 16:52	WG1368592

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	141	~~B~~	31.6	100	1	11/03/2019 00:18	WG1373020
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*78.0-120*		*11/03/2019 00:18*	WG1373020

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	53.5		0.287	0.678	1	10/23/2019 14:07	WG1367825
Ethane	5.31		0.296	1.29	1	10/23/2019 14:07	WG1367825
Ethene	U		0.422	1.27	1	10/23/2019 14:07	WG1367825

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	~~J4~~	1.05	25.0	1	10/29/2019 08:45	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 08:45	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 08:45	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 08:45	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 08:45	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 08:45	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 08:45	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 08:45	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 08:45	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 08:45	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 08:45	WG1371177
Carbon disulfide	U		0.101	0.500	1	10/29/2019 08:45	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 08:45	WG1371177

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/29/2019 08:45	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 08:45	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 08:45	WG1371177
Chloroform	U		0.0860	0.500	1	10/29/2019 08:45	WG1371177
Chloromethane	U	UJ J0	0.153	1.25	1	10/29/2019 08:45	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 08:45	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 08:45	WG1371177
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 08:45	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 08:45	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 08:45	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 08:45	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 08:45	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 08:45	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 08:45	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 08:45	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 08:45	WG1371177
1,1-Dichloroethene	1.62		0.188	0.500	1	10/29/2019 08:45	WG1371177
cis-1,2-Dichloroethene	350		0.933	5.00	10	10/29/2019 19:10	WG1371769
trans-1,2-Dichloroethene	1.61		0.152	0.500	1	10/29/2019 08:45	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 08:45	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 08:45	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 08:45	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 08:45	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 08:45	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 08:45	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 08:45	WG1371177
Di-isopropyl ether	U	UJ J0	0.0924	0.500	1	10/29/2019 08:45	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 08:45	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 08:45	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 08:45	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 08:45	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 08:45	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 08:45	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 08:45	WG1371177
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 08:45	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 08:45	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 08:45	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 08:45	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 08:45	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 08:45	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 08:45	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 08:45	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 08:45	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 08:45	WG1371177
Tetrachloroethene	114		0.199	0.500	1	10/29/2019 08:45	WG1371177
Toluene	U		0.412	0.500	1	10/29/2019 08:45	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 08:45	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 08:45	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 08:45	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 08:45	WG1371177
Trichloroethene	198		0.153	0.500	1	10/29/2019 08:45	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 08:45	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 08:45	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 08:45	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 08:45	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 08:45	WG1371177

JC 12/9/19

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/29/2019 08:45	WG1371177
Vinyl chloride	0.259	J	0.118	0.500	1	10/29/2019 08:45	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 08:45	WG1371177
(S) Toluene-d8	*98.7*			*80.0-120*		*10/29/2019 08:45*	WG1371177
(S) Toluene-d8	*105*			*80.0-120*		*10/29/2019 19:10*	WG1371769
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*10/29/2019 08:45*	WG1371177
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*10/29/2019 19:10*	WG1371769
(S) 1,2-Dichloroethane-d4	*98.1*			*70.0-130*		*10/29/2019 08:45*	WG1371177
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/29/2019 19:10*	WG1371769

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 12/9/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	246000		2710	20000	1	10/24/2019 23:27	WG1369144

Sample Narrative:

L1152823-01 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	10500		51.9	1000	1	10/23/2019 18:44	WG1367978
Nitrate	2170		22.7	100	1	10/23/2019 18:44	WG1367978
Sulfate	70000		77.4	5000	1	10/23/2019 18:44	WG1367978

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4270	~~B~~	102	1000	1	10/26/2019 19:05	WG1370126

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	339		15.0	100	1	10/28/2019 16:34	WG1368595
Manganese	313		0.250	5.00	1	10/28/2019 16:34	WG1368595

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	174	~~B~~	31.6	100	1	11/03/2019 00:40	WG1373020
(S) a,a,a-Trifluorotoluene(FID)	*96.6*			*78.0-120*		*11/03/2019 00:40*	WG1373020

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U UJ		0.287	0.678	1	10/24/2019 11:45	WG1368615
Ethane	U		0.296	1.29	1	10/24/2019 11:45	WG1368615
Ethene	U		0.422	1.27	1	10/24/2019 11:45	WG1368615

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.77 U	J ~~J4~~	1.05	25.0	1	10/29/2019 09:06	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 09:06	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 09:06	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 09:06	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 09:06	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 09:06	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 09:06	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 09:06	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 09:06	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 09:06	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 09:06	WG1371177
Carbon disulfide	U		0.101	0.500	1	10/29/2019 09:06	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 09:06	WG1371177

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	10/29/2019 09:06	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 09:06	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 09:06	WG1371177
Chloroform	U		0.0860	0.500	1	10/29/2019 09:06	WG1371177
Chloromethane	U	UJ J0	0.153	1.25	1	10/29/2019 09:06	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 09:06	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 09:06	WG1371177
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 09:06	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 09:06	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 09:06	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 09:06	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 09:06	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 09:06	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 09:06	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 09:06	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 09:06	WG1371177
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 09:06	WG1371177
cis-1,2-Dichloroethene	30.4		0.0933	0.500	1	10/29/2019 09:06	WG1371177
trans-1,2-Dichloroethene	0.426	J	0.152	0.500	1	10/29/2019 09:06	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 09:06	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 09:06	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 09:06	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 09:06	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 09:06	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 09:06	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 09:06	WG1371177
Di-isopropyl ether	U	UJ J0	0.0924	0.500	1	10/29/2019 09:06	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 09:06	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 09:06	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 09:06	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 09:06	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 09:06	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 09:06	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 09:06	WG1371177
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 09:06	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 09:06	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 09:06	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 09:06	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 09:06	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 09:06	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 09:06	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 09:06	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 09:06	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 09:06	WG1371177
Tetrachloroethene	169		0.995	2.50	5	10/29/2019 19:29	WG1371769
Toluene	U		0.412	0.500	1	10/29/2019 09:06	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 09:06	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 09:06	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 09:06	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 09:06	WG1371177
Trichloroethene	48.3		0.153	0.500	1	10/29/2019 09:06	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 09:06	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 09:06	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 09:06	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 09:06	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 09:06	WG1371177

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/29/2019 09:06	WG1371177
Vinyl chloride	0.152	J	0.118	0.500	1	10/29/2019 09:06	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 09:06	WG1371177
(S) Toluene-d8	*96.8*			*80.0-120*		*10/29/2019 09:06*	WG1371177
(S) Toluene-d8	*106*			*80.0-120*		*10/29/2019 19:29*	WG1371769
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*10/29/2019 09:06*	WG1371177
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*10/29/2019 19:29*	WG1371769
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/29/2019 09:06*	WG1371177
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*10/29/2019 19:29*	WG1371769

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-116-102219
Collected date/time: 10/22/19 10:05

SAMPLE RESULTS - 02

L1152823

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	361000		2710	20000	1	10/24/2019 23:34	WG1369144

Sample Narrative:

L1152823-02 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	23600		51.9	1000	1	10/23/2019 19:17	WG1367978
Nitrate	U		22.7	100	1	10/23/2019 19:17	WG1367978
Sulfate	U		77.4	5000	1	10/23/2019 19:17	WG1367978

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5950		102	1000	1	10/26/2019 19:30	WG1370126

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	3720		75.0	500	5	10/29/2019 02:45	WG1368595
Manganese	723		0.250	5.00	1	10/28/2019 17:09	WG1368595

MW-113-102219

Collected date/time: 10/22/19 10:45

SAMPLE RESULTS - 03

L1152823

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	561000		2710	20000	1	10/24/2019 23:42	WG1369144

Sample Narrative:

L1152823-03 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	70400		51.9	1000	1	10/23/2019 19:33	WG1367978
Nitrate	146		22.7	100	1	10/23/2019 19:33	WG1367978
Sulfate	22100		77.4	5000	1	10/23/2019 19:33	WG1367978

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	15800		102	1000	1	10/26/2019 19:57	WG1370126

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3380		75.0	500	5	10/29/2019 02:48	WG1368595
Manganese	426		0.250	5.00	1	10/28/2019 17:12	WG1368595

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2330		0.287	0.678	1	10/24/2019 11:49	WG1368615
Ethane	16.3		0.296	1.29	1	10/24/2019 11:49	WG1368615
Ethene	115		0.422	1.27	1	10/24/2019 11:49	WG1368615

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.45 U	J ~~J4~~	1.05	25.0	1	10/29/2019 09:26	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 09:26	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 09:26	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 09:26	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 09:26	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 09:26	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 09:26	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 09:26	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 09:26	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 09:26	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 09:26	WG1371177
Carbon disulfide	U		0.101	0.500	1	10/29/2019 09:26	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 09:26	WG1371177
Chlorobenzene	U		0.140	0.500	1	10/29/2019 09:26	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 09:26	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 09:26	WG1371177
Chloroform	0.239	J	0.0860	0.500	1	10/29/2019 09:26	WG1371177
Chloromethane	U UJ	J0	0.153	1.25	1	10/29/2019 09:26	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 09:26	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 09:26	WG1371177

MW-113-102219

Collected date/time: 10/22/19 10:45

SAMPLE RESULTS - 03

L1152823

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 09:26	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 09:26	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 09:26	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 09:26	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 09:26	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 09:26	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 09:26	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 09:26	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 09:26	WG1371177
1,1-Dichloroethene	1.78		0.188	0.500	1	10/29/2019 09:26	WG1371177
cis-1,2-Dichloroethene	1420	J	0.933	5.00	10	10/29/2019 19:48	WG1371769
trans-1,2-Dichloroethene	4.45		0.152	0.500	1	10/29/2019 09:26	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 09:26	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 09:26	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 09:26	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 09:26	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 09:26	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 09:26	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 09:26	WG1371177
Di-isopropyl ether	U	UJ J0	0.0924	0.500	1	10/29/2019 09:26	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 09:26	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 09:26	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 09:26	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 09:26	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 09:26	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 09:26	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 09:26	WG1371177
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 09:26	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 09:26	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 09:26	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 09:26	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 09:26	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 09:26	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 09:26	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 09:26	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 09:26	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 09:26	WG1371177
Tetrachloroethene	U		1.99	5.00	10	10/29/2019 19:48	WG1371769
Toluene	U		0.412	0.500	1	10/29/2019 09:26	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 09:26	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 09:26	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 09:26	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 09:26	WG1371177
Trichloroethene	6.77		0.153	0.500	1	10/29/2019 09:26	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 09:26	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 09:26	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 09:26	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 09:26	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 09:26	WG1371177
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/29/2019 09:26	WG1371177
Vinyl chloride	66.2		0.118	0.500	1	10/29/2019 09:26	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 09:26	WG1371177
(S) Toluene-d8	*101*			*80.0-120*		*10/29/2019 09:26*	WG1371177
(S) Toluene-d8	*107*			*80.0-120*		*10/29/2019 19:48*	WG1371769
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*10/29/2019 09:26*	WG1371177
(S) 4-Bromofluorobenzene	*134*	J1		*77.0-126*		*10/29/2019 19:48*	WG1371769

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*91.8*			*70.0-130*		*10/29/2019 09:26*	WG1371177
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/29/2019 19:48*	WG1371769

Sample Narrative:

L1152823-03 WG1371177, WG1371769: Not all compounds reportable at lower dilution.

L1152823-03 WG1371177, WG1371769: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	330000		2710	20000	1	10/24/2019 23:49	WG1369144

Sample Narrative:

L1152823-04 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	19300		51.9	1000	1	10/23/2019 20:39	WG1367978
Nitrate	U		22.7	100	1	10/23/2019 20:39	WG1367978
Sulfate	23600		77.4	5000	1	10/23/2019 20:39	WG1367978

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5510		102	1000	1	10/26/2019 20:20	WG1370126

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	4530		75.0	500	5	10/29/2019 02:51	WG1368595
Manganese	930		0.250	5.00	1	10/28/2019 17:15	WG1368595

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1500		0.287	0.678	1	10/24/2019 11:51	WG1368615
Ethane	4.04		0.296	1.29	1	10/24/2019 11:51	WG1368615
Ethene	4.17		0.422	1.27	1	10/24/2019 11:51	WG1368615

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	~~J4~~	1.05	25.0	1	10/29/2019 09:46	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 09:46	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 09:46	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 09:46	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 09:46	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 09:46	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 09:46	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 09:46	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 09:46	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 09:46	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 09:46	WG1371177
Carbon disulfide	U		0.101	0.500	1	10/29/2019 09:46	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 09:46	WG1371177
Chlorobenzene	U		0.140	0.500	1	10/29/2019 09:46	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 09:46	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 09:46	WG1371177
Chloroform	U		0.0860	0.500	1	10/29/2019 09:46	WG1371177
Chloromethane	U	UJ J0	0.153	1.25	1	10/29/2019 09:46	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 09:46	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 09:46	WG1371177

MW-115-102219

Collected date/time: 10/22/19 11:05

SAMPLE RESULTS - 04

L1152823

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 09:46	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 09:46	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 09:46	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 09:46	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 09:46	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 09:46	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 09:46	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 09:46	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 09:46	WG1371177
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 09:46	WG1371177
cis-1,2-Dichloroethene	0.819	~~B~~	0.0933	0.500	1	10/29/2019 20:07	WG1371769
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2019 09:46	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 09:46	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 09:46	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 09:46	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 09:46	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 09:46	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 09:46	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 09:46	WG1371177
Di-isopropyl ether	U	UJ J0	0.0924	0.500	1	10/29/2019 09:46	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 09:46	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 09:46	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 09:46	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 09:46	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 09:46	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 09:46	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 09:46	WG1371177
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 09:46	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 09:46	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 09:46	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 09:46	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 09:46	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 09:46	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 09:46	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 09:46	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 09:46	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 09:46	WG1371177
Tetrachloroethene	U		0.199	0.500	1	10/29/2019 09:46	WG1371177
Toluene	U		0.412	0.500	1	10/29/2019 09:46	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 09:46	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 09:46	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 09:46	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 09:46	WG1371177
Trichloroethene	U		0.153	0.500	1	10/29/2019 09:46	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 09:46	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 09:46	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 09:46	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 09:46	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 09:46	WG1371177
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/29/2019 09:46	WG1371177
Vinyl chloride	23.2		0.118	0.500	1	10/29/2019 09:46	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 09:46	WG1371177
(S) Toluene-d8	*96.1*			*80.0-120*		*10/29/2019 09:46*	WG1371177
(S) Toluene-d8	*107*			*80.0-120*		*10/29/2019 20:07*	WG1371769
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*10/29/2019 09:46*	WG1371177
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*		*10/29/2019 20:07*	WG1371769

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/29/2019 09:46*	WG1371177
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*		*10/29/2019 20:07*	WG1371769

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	245000		2710	20000	1	10/24/2019 23:57	WG1369144

Sample Narrative:

L1152823-05 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	10300		51.9	1000	1	10/23/2019 20:55	WG1367978
Nitrate	1980		22.7	100	1	10/23/2019 20:55	WG1367978
Sulfate	67300		77.4	5000	1	10/23/2019 20:55	WG1367978

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5090		102	1000	1	10/26/2019 23:06	WG1370126

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	678		15.0	100	1	10/28/2019 17:19	WG1368595
Manganese	376		0.250	5.00	1	10/28/2019 17:19	WG1368595

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	176	~~B~~	31.6	100	1	11/03/2019 01:01	WG1373020
(S) a,a,a-Trifluorotoluene(FID)	*96.6*			*78.0-120*		*11/03/2019 01:01*	WG1373020

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	74.8 J+		0.287	0.678	1	10/24/2019 11:54	WG1368615
Ethane	U		0.296	1.29	1	10/24/2019 11:54	WG1368615
Ethene	U		0.422	1.27	1	10/24/2019 11:54	WG1368615

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.24 U	J ~~J4~~	1.05	25.0	1	10/29/2019 10:06	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 10:06	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 10:06	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 10:06	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 10:06	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 10:06	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 10:06	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 10:06	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 10:06	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 10:06	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 10:06	WG1371177
Carbon disulfide	U		0.101	0.500	1	10/29/2019 10:06	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 10:06	WG1371177

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/29/2019 10:06	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 10:06	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 10:06	WG1371177
Chloroform	U		0.0860	0.500	1	10/29/2019 10:06	WG1371177
Chloromethane	U	UJ J0	0.153	1.25	1	10/29/2019 10:06	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 10:06	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 10:06	WG1371177
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 10:06	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 10:06	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 10:06	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 10:06	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 10:06	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 10:06	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 10:06	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 10:06	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 10:06	WG1371177
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 10:06	WG1371177
cis-1,2-Dichloroethene	31.8	J	0.0933	0.500	1	10/29/2019 10:06	WG1371177
trans-1,2-Dichloroethene	0.398	J	0.152	0.500	1	10/29/2019 10:06	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 10:06	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 10:06	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 10:06	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 10:06	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 10:06	WG1371177
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/29/2019 10:06	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 10:06	WG1371177
Di-isopropyl ether	U	UJ J0	0.0924	0.500	1	10/29/2019 10:06	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 10:06	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 10:06	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 10:06	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 10:06	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 10:06	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 10:06	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 10:06	WG1371177
2-Butanone (MEK)	U	UJ J0	1.28	5.00	1	10/29/2019 10:06	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 10:06	WG1371177
4-Methyl-2-pentanone (MIBK)	U	UJ J0	0.823	5.00	1	10/29/2019 10:06	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 10:06	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 10:06	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 10:06	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 10:06	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 10:06	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 10:06	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 10:06	WG1371177
Tetrachloroethene	135	J	0.995	2.50	5	10/29/2019 20:26	WG1371769
Toluene	U		0.412	0.500	1	10/29/2019 10:06	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 10:06	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 10:06	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 10:06	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 10:06	WG1371177
Trichloroethene	46.6		0.153	0.500	1	10/29/2019 10:06	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 10:06	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 10:06	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 10:06	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 10:06	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 10:06	WG1371177

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

BB-8-102219

Collected date/time: 10/22/19 12:50

SAMPLE RESULTS - 05

L1152823

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U UJ	J0	0.645	5.00	1	10/29/2019 10:06	WG1371177
Vinyl chloride	0.162	J	0.118	0.500	1	10/29/2019 10:06	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 10:06	WG1371177
(S) Toluene-d8	*96.8*			*80.0-120*		*10/29/2019 10:06*	WG1371177
(S) Toluene-d8	*107*			*80.0-120*		*10/29/2019 20:26*	WG1371769
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*10/29/2019 10:06*	WG1371177
(S) 4-Bromofluorobenzene	*60.4*	J2		*77.0-126*		*10/29/2019 20:26*	WG1371769
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/29/2019 10:06*	WG1371177
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*10/29/2019 20:26*	WG1371769

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	330000		2710	20000	1	10/25/2019 00:13	WG1369144

Sample Narrative:

L1152823-06 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	35000		51.9	1000	1	10/23/2019 21:12	WG1367978
Nitrate	U		22.7	100	1	10/23/2019 21:12	WG1367978
Sulfate	12800		77.4	5000	1	10/23/2019 21:12	WG1367978

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2860	~~B~~	102	1000	1	10/26/2019 23:27	WG1370126

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	3060		75.0	500	5	10/29/2019 02:55	WG1368595
Manganese	1050		0.250	5.00	1	10/28/2019 17:22	WG1368595

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	96.4 U	~~B J~~	31.6	100	1	10/31/2019 08:01	WG1371615
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*78.0-120*		*10/31/2019 08:01*	WG1371615

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	731		0.287	0.678	1	10/24/2019 11:56	WG1368615
Ethane	U		0.296	1.29	1	10/24/2019 11:56	WG1368615
Ethene	U		0.422	1.27	1	10/24/2019 11:56	WG1368615

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.40 U	J ~~J4~~	1.05	25.0	1	10/29/2019 10:27	WG1371177
Acrylonitrile	U	~~J4~~	0.873	5.00	1	10/29/2019 10:27	WG1371177
Benzene	U		0.0896	0.500	1	10/29/2019 10:27	WG1371177
Bromobenzene	U		0.133	0.500	1	10/29/2019 10:27	WG1371177
Bromodichloromethane	U	~~J4~~	0.0800	0.500	1	10/29/2019 10:27	WG1371177
Bromochloromethane	U		0.145	0.500	1	10/29/2019 10:27	WG1371177
Bromoform	U		0.186	0.500	1	10/29/2019 10:27	WG1371177
Bromomethane	U		0.157	2.50	1	10/29/2019 10:27	WG1371177
n-Butylbenzene	U		0.143	0.500	1	10/29/2019 10:27	WG1371177
sec-Butylbenzene	U		0.134	0.500	1	10/29/2019 10:27	WG1371177
tert-Butylbenzene	U		0.183	0.500	1	10/29/2019 10:27	WG1371177
Carbon disulfide	U		0.101	0.500	1	10/29/2019 10:27	WG1371177
Carbon tetrachloride	U		0.159	0.500	1	10/29/2019 10:27	WG1371177

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	10/29/2019 10:27	WG1371177
Chlorodibromomethane	U		0.128	0.500	1	10/29/2019 10:27	WG1371177
Chloroethane	U		0.141	2.50	1	10/29/2019 10:27	WG1371177
Chloroform	U		0.0860	0.500	1	10/29/2019 10:27	WG1371177
Chloromethane	U UJ	J0	0.153	1.25	1	10/29/2019 10:27	WG1371177
2-Chlorotoluene	U		0.111	0.500	1	10/29/2019 10:27	WG1371177
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2019 10:27	WG1371177
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/29/2019 10:27	WG1371177
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2019 10:27	WG1371177
Dibromomethane	U		0.117	0.500	1	10/29/2019 10:27	WG1371177
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2019 10:27	WG1371177
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2019 10:27	WG1371177
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2019 10:27	WG1371177
Dichlorodifluoromethane	U		0.127	2.50	1	10/29/2019 10:27	WG1371177
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2019 10:27	WG1371177
1,2-Dichloroethane	U		0.108	0.500	1	10/29/2019 10:27	WG1371177
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2019 10:27	WG1371177
cis-1,2-Dichloroethene	0.945		0.0933	0.500	1	10/29/2019 10:27	WG1371177
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2019 10:27	WG1371177
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2019 10:27	WG1371177
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2019 10:27	WG1371177
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2019 10:27	WG1371177
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2019 10:27	WG1371177
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2019 10:27	WG1371177
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	10/29/2019 10:27	WG1371177
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2019 10:27	WG1371177
Di-isopropyl ether	U UJ	J0	0.0924	0.500	1	10/29/2019 10:27	WG1371177
Ethylbenzene	U		0.158	0.500	1	10/29/2019 10:27	WG1371177
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2019 10:27	WG1371177
2-Hexanone	U		0.757	5.00	1	10/29/2019 10:27	WG1371177
n-Hexane	U		0.305	5.00	1	10/29/2019 10:27	WG1371177
Iodomethane	U		0.377	10.0	1	10/29/2019 10:27	WG1371177
Isopropylbenzene	U		0.126	0.500	1	10/29/2019 10:27	WG1371177
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2019 10:27	WG1371177
2-Butanone (MEK)	U UJ	J0	1.28	5.00	1	10/29/2019 10:27	WG1371177
Methylene Chloride	U		1.07	2.50	1	10/29/2019 10:27	WG1371177
4-Methyl-2-pentanone (MIBK)	U UJ	J0	0.823	5.00	1	10/29/2019 10:27	WG1371177
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2019 10:27	WG1371177
Naphthalene	U		0.174	2.50	1	10/29/2019 10:27	WG1371177
n-Propylbenzene	U		0.162	0.500	1	10/29/2019 10:27	WG1371177
Styrene	U		0.117	0.500	1	10/29/2019 10:27	WG1371177
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2019 10:27	WG1371177
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2019 10:27	WG1371177
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2019 10:27	WG1371177
Tetrachloroethene	U		0.199	0.500	1	10/29/2019 20:45	WG1371769
Toluene	U		0.412	0.500	1	10/29/2019 10:27	WG1371177
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/29/2019 10:27	WG1371177
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2019 10:27	WG1371177
1,1,1-Trichloroethane	U	~~J4~~	0.0940	0.500	1	10/29/2019 10:27	WG1371177
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2019 10:27	WG1371177
Trichloroethene	U		0.153	0.500	1	10/29/2019 10:27	WG1371177
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2019 10:27	WG1371177
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2019 10:27	WG1371177
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2019 10:27	WG1371177
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2019 10:27	WG1371177
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2019 10:27	WG1371177

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	10/29/2019 10:27	WG1371177
Vinyl chloride	0.214	J	0.118	0.500	1	10/29/2019 10:27	WG1371177
Xylenes, Total	U		0.316	1.50	1	10/29/2019 10:27	WG1371177
(S) Toluene-d8	*99.2*			*80.0-120*		*10/29/2019 10:27*	WG1371177
(S) Toluene-d8	*106*			*80.0-120*		*10/29/2019 20:45*	WG1371769
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*10/29/2019 10:27*	WG1371177
(S) 4-Bromofluorobenzene	*98.1*			*77.0-126*		*10/29/2019 20:45*	WG1371769
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/29/2019 10:27*	WG1371177
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*10/29/2019 20:45*	WG1371769

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	330000		2710	20000	1	10/25/2019 00:20	WG1369144

Sample Narrative:

L1152823-07 WG1369144: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	35100		51.9	1000	1	10/23/2019 21:28	WG1367978
Nitrate	U		22.7	100	1	10/23/2019 21:28	WG1367978
Sulfate	12800		77.4	5000	1	10/23/2019 21:28	WG1367978

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2900	~~B~~	102	1000	1	10/26/2019 23:44	WG1370126

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2590		75.0	500	5	10/29/2019 02:58	WG1368595
Manganese	1030		0.250	5.00	1	10/28/2019 17:25	WG1368595

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	90.8 U	~~B J~~	31.6	100	1	10/31/2019 08:23	WG1371615
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*78.0-120*		*10/31/2019 08:23*	WG1371615

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	655		0.287	0.678	1	10/24/2019 11:58	WG1368615
Ethane	U		0.296	1.29	1	10/24/2019 11:58	WG1368615
Ethene	U		0.422	1.27	1	10/24/2019 11:58	WG1368615

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.47	J	1.05	25.0	1	10/31/2019 21:50	WG1373274
Acrylonitrile	U		0.873	5.00	1	10/31/2019 21:50	WG1373274
Benzene	U		0.0896	0.500	1	10/31/2019 21:50	WG1373274
Bromobenzene	U	~~J4~~	0.133	0.500	1	10/31/2019 21:50	WG1373274
Bromodichloromethane	U		0.0800	0.500	1	10/31/2019 21:50	WG1373274
Bromochloromethane	U		0.145	0.500	1	10/31/2019 21:50	WG1373274
Bromoform	U		0.186	0.500	1	10/31/2019 21:50	WG1373274
Bromomethane	U		0.157	2.50	1	10/31/2019 21:50	WG1373274
n-Butylbenzene	U		0.143	0.500	1	10/31/2019 21:50	WG1373274
sec-Butylbenzene	U		0.134	0.500	1	10/31/2019 21:50	WG1373274
tert-Butylbenzene	U		0.183	0.500	1	10/31/2019 21:50	WG1373274
Carbon disulfide	U		0.101	0.500	1	10/31/2019 21:50	WG1373274
Carbon tetrachloride	U		0.159	0.500	1	10/31/2019 21:50	WG1373274

MW-919-102219

Collected date/time: 10/22/19 14:00

SAMPLE RESULTS - 07

L1152823

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	10/31/2019 21:50	WG1373274
Chlorodibromomethane	U		0.128	0.500	1	10/31/2019 21:50	WG1373274
Chloroethane	U		0.141	2.50	1	10/31/2019 21:50	WG1373274
Chloroform	U		0.0860	0.500	1	10/31/2019 21:50	WG1373274
Chloromethane	U		0.153	1.25	1	10/31/2019 21:50	WG1373274
2-Chlorotoluene	U	~~J4~~	0.111	0.500	1	10/31/2019 21:50	WG1373274
4-Chlorotoluene	U		0.0972	0.500	1	10/31/2019 21:50	WG1373274
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/31/2019 21:50	WG1373274
1,2-Dibromoethane	U		0.193	0.500	1	10/31/2019 21:50	WG1373274
Dibromomethane	U		0.117	0.500	1	10/31/2019 21:50	WG1373274
1,2-Dichlorobenzene	U		0.101	0.500	1	10/31/2019 21:50	WG1373274
1,3-Dichlorobenzene	U		0.130	0.500	1	10/31/2019 21:50	WG1373274
1,4-Dichlorobenzene	U		0.121	0.500	1	10/31/2019 21:50	WG1373274
Dichlorodifluoromethane	U		0.127	2.50	1	10/31/2019 21:50	WG1373274
1,1-Dichloroethane	U		0.114	0.500	1	10/31/2019 21:50	WG1373274
1,2-Dichloroethane	U		0.108	0.500	1	10/31/2019 21:50	WG1373274
1,1-Dichloroethene	U		0.188	0.500	1	10/31/2019 21:50	WG1373274
cis-1,2-Dichloroethene	0.720		0.0933	0.500	1	10/31/2019 21:50	WG1373274
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/31/2019 21:50	WG1373274
1,2-Dichloropropane	U		0.190	0.500	1	10/31/2019 21:50	WG1373274
1,1-Dichloropropene	U		0.128	0.500	1	10/31/2019 21:50	WG1373274
1,3-Dichloropropane	U		0.147	1.00	1	10/31/2019 21:50	WG1373274
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/31/2019 21:50	WG1373274
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/31/2019 21:50	WG1373274
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	10/31/2019 21:50	WG1373274
2,2-Dichloropropane	U		0.0929	0.500	1	10/31/2019 21:50	WG1373274
Di-isopropyl ether	U		0.0924	0.500	1	10/31/2019 21:50	WG1373274
Ethylbenzene	U		0.158	0.500	1	10/31/2019 21:50	WG1373274
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/31/2019 21:50	WG1373274
2-Hexanone	U		0.757	5.00	1	10/31/2019 21:50	WG1373274
n-Hexane	U		0.305	5.00	1	10/31/2019 21:50	WG1373274
Iodomethane	U		0.377	10.0	1	10/31/2019 21:50	WG1373274
Isopropylbenzene	U		0.126	0.500	1	10/31/2019 21:50	WG1373274
p-Isopropyltoluene	U		0.138	0.500	1	10/31/2019 21:50	WG1373274
2-Butanone (MEK)	U		1.28	5.00	1	10/31/2019 21:50	WG1373274
Methylene Chloride	U		1.07	2.50	1	10/31/2019 21:50	WG1373274
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/31/2019 21:50	WG1373274
Methyl tert-butyl ether	U		0.102	0.500	1	10/31/2019 21:50	WG1373274
Naphthalene	U		0.174	2.50	1	10/31/2019 21:50	WG1373274
n-Propylbenzene	U		0.162	0.500	1	10/31/2019 21:50	WG1373274
Styrene	U		0.117	0.500	1	10/31/2019 21:50	WG1373274
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/31/2019 21:50	WG1373274
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/31/2019 21:50	WG1373274
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/31/2019 21:50	WG1373274
Tetrachloroethene	U		0.199	0.500	1	10/31/2019 21:50	WG1373274
Toluene	U		0.412	0.500	1	10/31/2019 21:50	WG1373274
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/31/2019 21:50	WG1373274
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/31/2019 21:50	WG1373274
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/31/2019 21:50	WG1373274
1,1,2-Trichloroethane	U		0.186	0.500	1	10/31/2019 21:50	WG1373274
Trichloroethene	U		0.153	0.500	1	10/31/2019 21:50	WG1373274
Trichlorofluoromethane	U		0.130	2.50	1	10/31/2019 21:50	WG1373274
1,2,3-Trichloropropane	U		0.247	2.50	1	10/31/2019 21:50	WG1373274
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/31/2019 21:50	WG1373274
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/31/2019 21:50	WG1373274
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/31/2019 21:50	WG1373274

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	10/31/2019 21:50	WG1373274
Vinyl chloride	U		0.118	0.500	1	10/31/2019 21:50	WG1373274
Xylenes, Total	U		0.316	1.50	1	10/31/2019 21:50	WG1373274
(S) Toluene-d8	*113*			*80.0-120*		*10/31/2019 21:50*	WG1373274
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*10/31/2019 21:50*	WG1373274
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/31/2019 21:50*	WG1373274

MEMORANDUM

TO: Project File **DATE:** December 20, 2019

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.02.501E

TASK: EIM Data Validation Level EPA2A for October and November 2019 – Groundwater Samples

LAB: Pace Sample Delivery Groups (SDGs): L1155658, L1156109, L1156445, L1158143, and L1161106

Eight (8) groundwater samples (including one field duplicate) were collected as part of the Remedial Investigation (RI) sampling event at the Former American Linen Supply Site, in Seattle, Washington, October 30-31, November 6 and 14, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B.

The RI sampling was conducted mostly during the month of October with a few samples collected in November 2019. Results are reported in multiple SDGs from Pace. Pace SDGs are reviewed in groups of approximately 2-4 per each data validation report. Group 5 analytical results are reported in SDGs L1155658, L1156109, L1156445, L1158143, and L1161106. The quality assurance review of the laboratory data associated with Group 5 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory

Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested with the following exceptions:

- SDG L1155658: The lower portion of the COC showing the courier bill of lading number is not legible since the lower portion of the page is cut-off. Pace rescanned an acceptable copy of the COC for PES's records.

- SDG L1156109: COC shows date received as 11/1 instead of 11/1/19. The COC was relinquished on 10/31/19 and sample acknowledgment/courier tracking data may be used to support receipt date of 11/1/2019. Pace's standard policy is to include the day, month, and year and indicated that the abbreviated date format was inadvertent. Lower portion of the COC signature block is not legible since the lower portion of the page is cut-off. Pace rescanned an acceptable copy of the COC for PES's records.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. Samples were received in good condition except for issues mentioned in the Completeness section. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

NWTPH-Gx Method:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:
All samples were analyzed within the USEPA recommended holding time for iron and manganese of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however Pace's notes indicate the following:

- Multiple SDGs - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDGs L1158143 – Analytical batch WG1381516: A low level of acetone is detected in the method blank. **Associated acetone detection in sample FMW-137-110619 is below the RDL and qualified as not detected (U).**

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020B and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL. General chemistry and metal blank detections are shown below:

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1155658	WG1376309	SM2320B	Alkalinity as CaCO3, Total	3080	J	20000	µg/L	NO
L1155658	WG1372794	9056A	Chloride	53.1	J	1000	µg/L	NO
L1155658	WG1373549	9056A	Sulfate	90.9	J	1000	µg/L	NO
L1155658	WG1374098	9060A	TOC	387	J	5.00	µg/L	NO

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1155658	WG1373700	6020B	Manganese	0.609	J	5.00	µg/L	NO
L1156109	WG1376333	SM2320B	Alkalinity as CaCO3, Total	3390	J	20000	µg/L	NO
L1156109	WG1373549	9056A	Chloride	83.7	J	1000	µg/L	NO
L1156109	WG1373549	9056A	Sulfate	90.9	J	5000	µg/L	NO
L1156109	WG1375433	9060A	TOC	345	J	1000	µg/L	NO
L1156445	WG1376629	SM2320B	Alkalinity as CaCO3, Total	3970	J	20000	µg/L	NO
L1156445	WG1375433	9060A	TOC	345	J	1000	µg/L	NO
L1156445	WG1375892	6020B	Manganese	0.432	J	5.00	µg/L	NO
L1158143	WG1379400	SM2320B	Alkalinity as CaCO3, Total	4200	J	20000	µg/L	NO
L1158143	WG1376795	9056A	Chloride	131	J	1000	µg/L	NO
L1158143	WG1376795	9056A	Nitrate	30.1	J	100	µg/L	**YES**
L1158143	WG1376795	9056A	Sulfate	221	J	5000	µg/L	NO
L1158143	WG1378047	9060A	TOC	296	J	1000	µg/L	NO
L1158143	WG1377945	6020B	Manganese	0.736	J	5.00	µg/L	NO
L1161106	WG1384195	SM2320B	Alkalinity as CaCO3, Total	8120	J	20000	µg/L	NO
L1161106	WG1382360	9060A	TOC	242	J	1000	µg/L	NO
L1161106	WG1381630	6020B	Manganese	0.438	J	5.00	µg/L	NO

Target analytes were detected in method blanks at low levels with no impact to the associated samples with the following exception:

- SDGs L1158143 – Analytical batch WG1376795: A low level of nitrate is detected in the method blank. **Sample FMW-137-110619 nitrate detection is below the RDL and qualified as not detected (U).**

Trip Blank Results

USEPA Method 8260C and NWTPH-Gx:
Trip blanks were not collected.

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:
Field, rinsate, and equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1155658: FMW-141-103019 and MW-920-103019

Target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 1x RDL for groundwater results <5X the RDL) for the field duplicate pair with the following exceptions:

- SDG L1155658: **Samples FMW-141-103019 and MW-920-103019 RPD results for chloride, ethene, VOC compounds (1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and trichloroethene) are greater than 30% and qualified as estimated (J/UJ).**

Laboratory Duplicate Analyses

USEPA Method 8260C:
Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

NWTPH-Gx Method:
Laboratory duplicate samples were not analyzed. Precision data is not provided. No action is taken other than to note this.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:
Laboratory duplicate samples were not analyzed. Refer to LCS/LCSD or MS/MSD results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control RPD limits or ± 1x RDL for groundwater results <5X the RDL.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, and the method blanks are within the laboratory surrogate control limits for all analyses.

Laboratory Control Samples

USEPA Method 8260C:
Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD % Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussion:

- SDG L1156109 - Analytical batch WG1377899: LCS % recoveries for acetone and acrylonitrile recovery are above laboratory acceptance criteria and laboratory qualified (J4). Acetone was detected above the MDL and below the RDL and is already qualified due to calibration issues. Additional qualification is not required. No action is needed for acrylonitrile is it is not detected in the associated.

- SDG L1156109 - Analytical batch WG1377899: LCS % recoveries for n-butylbenzene and 1,1,2-trichlorotrifluoroethane are below acceptance criteria. No action is taken on this basis for n-butylbenzene since recovery is 72.8% and slightly below the laboratory acceptance limit (73.0-125%). n-Butylbenzene is already qualified due to calibration issues. Additional qualification is not required. **LCS % recovery for 1,1,2-trichlorotrifluoroethane is below criteria and all associated samples are estimated (UJ).**

- SDG L1156445 - Analytical batch WG1378314. LCS % recoveries for carbon tetrachloride and trichloroethane recovery are above laboratory acceptance criteria and laboratory qualified (J4). No action is needed since neither of these compounds were detected in the associated sample.

NWTPH-Gx Method:
The LCS % Rs for the target compound (gasoline) are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:
The LCS/LCSD % Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on a non-client sample associated with SDG L1155658. The MS/MSD % Rs were acceptable but multiple RPDs are above control limit criteria and laboratory qualified (J3) due to wide recoveries. Refer to LCS results and field duplicate sample for accuracy and precision data.

NWTPH-Gx Method:
MS/MSD analyses were not performed. Refer to LCS results. No measure of precision was provided. No action was taken other than to note this.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
MS/MSD analyses were not performed. Refer to LCS results and field duplicate sample for accuracy and precision data.

USEPA Method 6020B:
MS/MSD analyses were performed on non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples with the following discussion:

- SDG L1156109: Matrix spike analysis was performed on a non-client sample and spike results are laboratory qualified (V) to indicate that the sample concentration is greater than 4X the spike amount. No action is taken in this case since the spike was performed on a non-client sample. Refer to LCS/LCSD results for accuracy and precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS or MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

- Multiple SDGs: Selected sample narratives for alkalinity results indicate that several sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. No action is taken other than to note this.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	596000		2710	20000	1	11/06/2019 19:55	WG1376309

Sample Narrative:

L1155658-01 WG1376309: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	66900	J	51.9	1000	1	10/31/2019 21:01	WG1372794
Nitrate	U		22.7	100	1	10/31/2019 21:01	WG1372794
Sulfate	909	J	77.4	5000	1	11/01/2019 15:54	WG1373549

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	21200		102	1000	1	11/03/2019 02:25	WG1374098

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	8880		150	1000	10	11/05/2019 17:46	WG1373700
Manganese	1740		2.50	50.0	10	11/05/2019 17:46	WG1373700

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	6040		0.287	0.678	1	11/01/2019 14:20	WG1373387
Ethane	113		0.296	1.29	1	11/01/2019 14:20	WG1373387
Ethene	460	J	0.422	1.27	1	11/01/2019 14:20	WG1373387

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		105	2500	100	11/08/2019 13:11	WG1377124
Acrylonitrile	U		0.873	5.00	1	11/06/2019 21:11	WG1375825
Benzene	0.230	J	0.0896	0.500	1	11/06/2019 21:11	WG1375825
Bromobenzene	U		0.133	0.500	1	11/06/2019 21:11	WG1375825
Bromodichloromethane	U		0.0800	0.500	1	11/06/2019 21:11	WG1375825
Bromochloromethane	U		0.145	0.500	1	11/06/2019 21:11	WG1375825
Bromoform	U		0.186	0.500	1	11/06/2019 21:11	WG1375825
Bromomethane	U	UJ J0	0.157	2.50	1	11/06/2019 21:11	WG1375825
n-Butylbenzene	U		0.143	0.500	1	11/06/2019 21:11	WG1375825
sec-Butylbenzene	U		0.134	0.500	1	11/06/2019 21:11	WG1375825
tert-Butylbenzene	U		0.183	0.500	1	11/06/2019 21:11	WG1375825
Carbon disulfide	U		0.101	0.500	1	11/06/2019 21:11	WG1375825
Carbon tetrachloride	U		0.159	0.500	1	11/06/2019 21:11	WG1375825
Chlorobenzene	U		0.140	0.500	1	11/06/2019 21:11	WG1375825
Chlorodibromomethane	U		0.128	0.500	1	11/06/2019 21:11	WG1375825
Chloroethane	U		0.141	2.50	1	11/06/2019 21:11	WG1375825
Chloroform	U		0.0860	0.500	1	11/06/2019 21:11	WG1375825
Chloromethane	U	UJ J0	0.153	1.25	1	11/06/2019 21:11	WG1375825
2-Chlorotoluene	U		0.111	0.500	1	11/06/2019 21:11	WG1375825
4-Chlorotoluene	U		0.0972	0.500	1	11/06/2019 21:11	WG1375825

JC 12/19/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/06/2019 21:11	WG1375825
1,2-Dibromoethane	U		0.193	0.500	1	11/06/2019 21:11	WG1375825
Dibromomethane	U		0.117	0.500	1	11/06/2019 21:11	WG1375825
1,2-Dichlorobenzene	U		0.101	0.500	1	11/06/2019 21:11	WG1375825
1,3-Dichlorobenzene	U		0.130	0.500	1	11/06/2019 21:11	WG1375825
1,4-Dichlorobenzene	U		0.121	0.500	1	11/06/2019 21:11	WG1375825
Dichlorodifluoromethane	U		0.127	2.50	1	11/06/2019 21:11	WG1375825
1,1-Dichloroethane	U		0.114	0.500	1	11/06/2019 21:11	WG1375825
1,2-Dichloroethane	U		0.108	0.500	1	11/06/2019 21:11	WG1375825
1,1-Dichloroethene	2.51 J		0.188	0.500	1	11/06/2019 21:11	WG1375825
cis-1,2-Dichloroethene	1200 J		9.33	50.0	100	11/08/2019 13:11	WG1377124
trans-1,2-Dichloroethene	7.13 J		0.152	0.500	1	11/06/2019 21:11	WG1375825
1,2-Dichloropropane	U		0.190	0.500	1	11/06/2019 21:11	WG1375825
1,1-Dichloropropene	U		0.128	0.500	1	11/06/2019 21:11	WG1375825
1,3-Dichloropropane	U		0.147	1.00	1	11/06/2019 21:11	WG1375825
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/06/2019 21:11	WG1375825
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/06/2019 21:11	WG1375825
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	11/06/2019 21:11	WG1375825
2,2-Dichloropropane	U		0.0929	0.500	1	11/06/2019 21:11	WG1375825
Di-isopropyl ether	U		0.0924	0.500	1	11/06/2019 21:11	WG1375825
Ethylbenzene	U		0.158	0.500	1	11/06/2019 21:11	WG1375825
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/06/2019 21:11	WG1375825
2-Hexanone	U		0.757	5.00	1	11/06/2019 21:11	WG1375825
n-Hexane	U		0.305	5.00	1	11/06/2019 21:11	WG1375825
Iodomethane	U UJ	J0	0.377	10.0	1	11/06/2019 21:11	WG1375825
Isopropylbenzene	U		0.126	0.500	1	11/06/2019 21:11	WG1375825
p-Isopropyltoluene	U		0.138	0.500	1	11/06/2019 21:11	WG1375825
2-Butanone (MEK)	U		1.28	5.00	1	11/06/2019 21:11	WG1375825
Methylene Chloride	U		1.07	2.50	1	11/06/2019 21:11	WG1375825
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/06/2019 21:11	WG1375825
Methyl tert-butyl ether	U		0.102	0.500	1	11/06/2019 21:11	WG1375825
Naphthalene	U		0.174	2.50	1	11/06/2019 21:11	WG1375825
n-Propylbenzene	U		0.162	0.500	1	11/06/2019 21:11	WG1375825
Styrene	U		0.117	0.500	1	11/06/2019 21:11	WG1375825
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/06/2019 21:11	WG1375825
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/06/2019 21:11	WG1375825
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/06/2019 21:11	WG1375825
Tetrachloroethene	U		0.199	0.500	1	11/06/2019 21:11	WG1375825
Toluene	U		0.412	0.500	1	11/06/2019 21:11	WG1375825
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/06/2019 21:11	WG1375825
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/06/2019 21:11	WG1375825
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/06/2019 21:11	WG1375825
1,1,2-Trichloroethane	U		0.186	0.500	1	11/06/2019 21:11	WG1375825
Trichloroethene	2.18 J		0.153	0.500	1	11/06/2019 21:11	WG1375825
Trichlorofluoromethane	U		0.130	2.50	1	11/06/2019 21:11	WG1375825
1,2,3-Trichloropropane	U		0.247	2.50	1	11/06/2019 21:11	WG1375825
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/06/2019 21:11	WG1375825
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/06/2019 21:11	WG1375825
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/06/2019 21:11	WG1375825
Vinyl acetate	U		0.645	5.00	1	11/06/2019 21:11	WG1375825
Vinyl chloride	1760		11.8	50.0	100	11/08/2019 13:11	WG1377124
Xylenes, Total	U		0.316	1.50	1	11/06/2019 21:11	WG1375825
(S) Toluene-d8	*93.8*			*80.0-120*		*11/06/2019 21:11*	WG1375825
(S) Toluene-d8	*93.8*			*80.0-120*		*11/08/2019 13:11*	WG1377124
(S) 4-Bromofluorobenzene	*92.4*			*77.0-126*		*11/06/2019 21:11*	WG1375825
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*11/08/2019 13:11*	WG1377124

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*89.9*			*70.0-130*		*11/06/2019 21:11*	WG1375825
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/08/2019 13:11*	WG1377124

JC 12/19/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	466000		2710	20000	1	11/06/2019 22:34	WG1376309

Sample Narrative:

L1155658-02 WG1376309: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	44500	J	51.9	1000	1	10/31/2019 21:36	WG1372794
Nitrate	U		22.7	100	1	10/31/2019 21:36	WG1372794
Sulfate	4730	J	77.4	5000	1	11/01/2019 16:20	WG1373549

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	18800		102	1000	1	11/03/2019 02:41	WG1374098

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	8380		150	1000	10	11/05/2019 17:50	WG1373700
Manganese	1520		2.50	50.0	10	11/05/2019 17:50	WG1373700

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	5710		0.287	0.678	1	11/01/2019 14:25	WG1373387
Ethane	84.9		0.296	1.29	1	11/01/2019 14:25	WG1373387
Ethene	305	J	0.422	1.27	1	11/01/2019 14:25	WG1373387

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		105	2500	100	11/08/2019 13:31	WG1377124
Acrylonitrile	U		0.873	5.00	1	11/06/2019 21:31	WG1375825
Benzene	0.212	J	0.0896	0.500	1	11/06/2019 21:31	WG1375825
Bromobenzene	U		0.133	0.500	1	11/06/2019 21:31	WG1375825
Bromodichloromethane	U		0.0800	0.500	1	11/06/2019 21:31	WG1375825
Bromochloromethane	U		0.145	0.500	1	11/06/2019 21:31	WG1375825
Bromoform	U		0.186	0.500	1	11/06/2019 21:31	WG1375825
Bromomethane	U	UJ J0	0.157	2.50	1	11/06/2019 21:31	WG1375825
n-Butylbenzene	U		0.143	0.500	1	11/06/2019 21:31	WG1375825
sec-Butylbenzene	U		0.134	0.500	1	11/06/2019 21:31	WG1375825
tert-Butylbenzene	U		0.183	0.500	1	11/06/2019 21:31	WG1375825
Carbon disulfide	U		0.101	0.500	1	11/06/2019 21:31	WG1375825
Carbon tetrachloride	U		0.159	0.500	1	11/06/2019 21:31	WG1375825
Chlorobenzene	U		0.140	0.500	1	11/06/2019 21:31	WG1375825
Chlorodibromomethane	U		0.128	0.500	1	11/06/2019 21:31	WG1375825
Chloroethane	U		0.141	2.50	1	11/06/2019 21:31	WG1375825
Chloroform	U		0.0860	0.500	1	11/06/2019 21:31	WG1375825
Chloromethane	U	Uj J0	0.153	1.25	1	11/06/2019 21:31	WG1375825
2-Chlorotoluene	U		0.111	0.500	1	11/06/2019 21:31	WG1375825
4-Chlorotoluene	U		0.0972	0.500	1	11/06/2019 21:31	WG1375825

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/06/2019 21:31	WG1375825
1,2-Dibromoethane	U		0.193	0.500	1	11/06/2019 21:31	WG1375825
Dibromomethane	U		0.117	0.500	1	11/06/2019 21:31	WG1375825
1,2-Dichlorobenzene	U		0.101	0.500	1	11/06/2019 21:31	WG1375825
1,3-Dichlorobenzene	U		0.130	0.500	1	11/06/2019 21:31	WG1375825
1,4-Dichlorobenzene	U		0.121	0.500	1	11/06/2019 21:31	WG1375825
Dichlorodifluoromethane	U		0.127	2.50	1	11/06/2019 21:31	WG1375825
1,1-Dichloroethane	U		0.114	0.500	1	11/06/2019 21:31	WG1375825
1,2-Dichloroethane	U		0.108	0.500	1	11/06/2019 21:31	WG1375825
1,1-Dichloroethene	4.63	J	0.188	0.500	1	11/06/2019 21:31	WG1375825
cis-1,2-Dichloroethene	2250	J	9.33	50.0	100	11/08/2019 13:31	WG1377124
trans-1,2-Dichloroethene	10.5	J	0.152	0.500	1	11/06/2019 21:31	WG1375825
1,2-Dichloropropane	U		0.190	0.500	1	11/06/2019 21:31	WG1375825
1,1-Dichloropropene	U		0.128	0.500	1	11/06/2019 21:31	WG1375825
1,3-Dichloropropane	U		0.147	1.00	1	11/06/2019 21:31	WG1375825
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/06/2019 21:31	WG1375825
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/06/2019 21:31	WG1375825
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	11/06/2019 21:31	WG1375825
2,2-Dichloropropane	U		0.0929	0.500	1	11/06/2019 21:31	WG1375825
Di-isopropyl ether	U		0.0924	0.500	1	11/06/2019 21:31	WG1375825
Ethylbenzene	U		0.158	0.500	1	11/06/2019 21:31	WG1375825
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/06/2019 21:31	WG1375825
2-Hexanone	U		0.757	5.00	1	11/06/2019 21:31	WG1375825
n-Hexane	U		0.305	5.00	1	11/06/2019 21:31	WG1375825
Iodomethane	U	UJ J0	0.377	10.0	1	11/06/2019 21:31	WG1375825
Isopropylbenzene	U		0.126	0.500	1	11/06/2019 21:31	WG1375825
p-Isopropyltoluene	U		0.138	0.500	1	11/06/2019 21:31	WG1375825
2-Butanone (MEK)	U		1.28	5.00	1	11/06/2019 21:31	WG1375825
Methylene Chloride	U		1.07	2.50	1	11/06/2019 21:31	WG1375825
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/06/2019 21:31	WG1375825
Methyl tert-butyl ether	U		0.102	0.500	1	11/06/2019 21:31	WG1375825
Naphthalene	U		0.174	2.50	1	11/06/2019 21:31	WG1375825
n-Propylbenzene	U		0.162	0.500	1	11/06/2019 21:31	WG1375825
Styrene	U		0.117	0.500	1	11/06/2019 21:31	WG1375825
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/06/2019 21:31	WG1375825
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/06/2019 21:31	WG1375825
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/06/2019 21:31	WG1375825
Tetrachloroethene	U		0.199	0.500	1	11/06/2019 21:31	WG1375825
Toluene	U		0.412	0.500	1	11/06/2019 21:31	WG1375825
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/06/2019 21:31	WG1375825
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/06/2019 21:31	WG1375825
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/06/2019 21:31	WG1375825
1,1,2-Trichloroethane	U		0.186	0.500	1	11/06/2019 21:31	WG1375825
Trichloroethene	12.7	J	0.153	0.500	1	11/06/2019 21:31	WG1375825
Trichlorofluoromethane	U		0.130	2.50	1	11/06/2019 21:31	WG1375825
1,2,3-Trichloropropane	U		0.247	2.50	1	11/06/2019 21:31	WG1375825
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/06/2019 21:31	WG1375825
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/06/2019 21:31	WG1375825
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/06/2019 21:31	WG1375825
Vinyl acetate	U		0.645	5.00	1	11/06/2019 21:31	WG1375825
Vinyl chloride	1710		11.8	50.0	100	11/08/2019 13:31	WG1377124
Xylenes, Total	U		0.316	1.50	1	11/06/2019 21:31	WG1375825
(S) Toluene-d8	*93.5*			*80.0-120*		*11/06/2019 21:31*	WG1375825
(S) Toluene-d8	*102*			*80.0-120*		*11/08/2019 13:31*	WG1377124
(S) 4-Bromofluorobenzene	*94.2*			*77.0-126*		*11/06/2019 21:31*	WG1375825
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*11/08/2019 13:31*	WG1377124

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*		*11/06/2019 21:31*	WG1375825
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/08/2019 13:31*	WG1377124

JC
12/19/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	396000		2710	20000	1	11/07/2019 02:56	WG1376333

Sample Narrative:

L1156109-01 WG1376333: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	17600		51.9	1000	1	11/01/2019 18:44	WG1373549
Nitrate	U		22.7	100	1	11/01/2019 18:44	WG1373549
Sulfate	2990	J	77.4	5000	1	11/01/2019 18:44	WG1373549

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	16800		102	1000	1	11/05/2019 22:49	WG1375433

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	213		15.0	100	1	11/07/2019 13:42	WG1373704
Manganese	1020		0.250	5.00	1	11/07/2019 13:42	WG1373704

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	2440		0.287	0.678	1	11/05/2019 15:54	WG1375047
Ethane	75.1		0.296	1.29	1	11/05/2019 15:54	WG1375047
Ethene	81.1		0.422	1.27	1	11/05/2019 15:54	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Acetone	5.97	J	J J0 J4	1.05	25.0	1	11/09/2019 14:23	WG1377899
Acrylonitrile	U		~~J4~~	0.873	5.00	1	11/09/2019 14:23	WG1377899
Benzene	18.5			0.0896	0.500	1	11/09/2019 14:23	WG1377899
Bromobenzene	U			0.133	0.500	1	11/09/2019 14:23	WG1377899
Bromodichloromethane	U			0.0800	0.500	1	11/09/2019 14:23	WG1377899
Bromochloromethane	U			0.145	0.500	1	11/09/2019 14:23	WG1377899
Bromoform	U			0.186	0.500	1	11/09/2019 14:23	WG1377899
Bromomethane	U			0.157	2.50	1	11/09/2019 14:23	WG1377899
n-Butylbenzene	U	UJ	J0 J4	0.143	0.500	1	11/09/2019 14:23	WG1377899
sec-Butylbenzene	U			0.134	0.500	1	11/09/2019 14:23	WG1377899
tert-Butylbenzene	U			0.183	0.500	1	11/09/2019 14:23	WG1377899
Carbon disulfide	3.49			0.101	0.500	1	11/09/2019 14:23	WG1377899
Carbon tetrachloride	U			0.159	0.500	1	11/09/2019 14:23	WG1377899
Chlorobenzene	U			0.140	0.500	1	11/09/2019 14:23	WG1377899
Chlorodibromomethane	U			0.128	0.500	1	11/09/2019 14:23	WG1377899
Chloroethane	U			0.141	2.50	1	11/09/2019 14:23	WG1377899
Chloroform	U			0.0860	0.500	1	11/09/2019 14:23	WG1377899
Chloromethane	U			0.153	1.25	1	11/09/2019 14:23	WG1377899
2-Chlorotoluene	U			0.111	0.500	1	11/09/2019 14:23	WG1377899
4-Chlorotoluene	U			0.0972	0.500	1	11/09/2019 14:23	WG1377899

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	11/09/2019 14:23	WG1377899
1,2-Dibromoethane	U			0.193	0.500	1	11/09/2019 14:23	WG1377899
Dibromomethane	U			0.117	0.500	1	11/09/2019 14:23	WG1377899
1,2-Dichlorobenzene	U			0.101	0.500	1	11/09/2019 14:23	WG1377899
1,3-Dichlorobenzene	U			0.130	0.500	1	11/09/2019 14:23	WG1377899
1,4-Dichlorobenzene	U			0.121	0.500	1	11/09/2019 14:23	WG1377899
Dichlorodifluoromethane	U			0.127	2.50	1	11/09/2019 14:23	WG1377899
1,1-Dichloroethane	U			0.114	0.500	1	11/09/2019 14:23	WG1377899
1,2-Dichloroethane	U			0.108	0.500	1	11/09/2019 14:23	WG1377899
1,1-Dichloroethene	U			0.188	0.500	1	11/09/2019 14:23	WG1377899
cis-1,2-Dichloroethene	0.160		J	0.0933	0.500	1	11/09/2019 14:23	WG1377899
trans-1,2-Dichloroethene	U			0.152	0.500	1	11/09/2019 14:23	WG1377899
1,2-Dichloropropane	U			0.190	0.500	1	11/09/2019 14:23	WG1377899
1,1-Dichloropropene	U			0.128	0.500	1	11/09/2019 14:23	WG1377899
1,3-Dichloropropane	U			0.147	1.00	1	11/09/2019 14:23	WG1377899
cis-1,3-Dichloropropene	U			0.0976	0.500	1	11/09/2019 14:23	WG1377899
trans-1,3-Dichloropropene	U			0.222	0.500	1	11/09/2019 14:23	WG1377899
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/09/2019 14:23	WG1377899
2,2-Dichloropropane	U			0.0929	0.500	1	11/09/2019 14:23	WG1377899
Di-isopropyl ether	0.327		J	0.0924	0.500	1	11/09/2019 14:23	WG1377899
Ethylbenzene	U			0.158	0.500	1	11/09/2019 14:23	WG1377899
Hexachloro-1,3-butadiene	U			0.157	1.00	1	11/09/2019 14:23	WG1377899
2-Hexanone	U			0.757	5.00	1	11/09/2019 14:23	WG1377899
n-Hexane	U			0.305	5.00	1	11/09/2019 14:23	WG1377899
Iodomethane	U			0.377	10.0	1	11/09/2019 14:23	WG1377899
Isopropylbenzene	U			0.126	0.500	1	11/09/2019 14:23	WG1377899
p-Isopropyltoluene	U			0.138	0.500	1	11/09/2019 14:23	WG1377899
2-Butanone (MEK)	1.50	J	J J0	1.28	5.00	1	11/09/2019 14:23	WG1377899
Methylene Chloride	U	UJ	J0	1.07	2.50	1	11/09/2019 14:23	WG1377899
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	11/09/2019 14:23	WG1377899
Methyl tert-butyl ether	0.200		J	0.102	0.500	1	11/09/2019 14:23	WG1377899
Naphthalene	U			0.174	2.50	1	11/09/2019 14:23	WG1377899
n-Propylbenzene	U			0.162	0.500	1	11/09/2019 14:23	WG1377899
Styrene	U			0.117	0.500	1	11/09/2019 14:23	WG1377899
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	11/09/2019 14:23	WG1377899
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	11/09/2019 14:23	WG1377899
1,1,2-Trichlorotrifluoroethane	U	UJ	J0 J4	0.164	0.500	1	11/09/2019 14:23	WG1377899
Tetrachloroethene	U			0.199	0.500	1	11/09/2019 14:23	WG1377899
Toluene	1.43			0.412	0.500	1	11/09/2019 14:23	WG1377899
1,2,3-Trichlorobenzene	U			0.164	0.500	1	11/09/2019 14:23	WG1377899
1,2,4-Trichlorobenzene	U			0.355	0.500	1	11/09/2019 14:23	WG1377899
1,1,1-Trichloroethane	U			0.0940	0.500	1	11/09/2019 14:23	WG1377899
1,1,2-Trichloroethane	U			0.186	0.500	1	11/09/2019 14:23	WG1377899
Trichloroethene	U			0.153	0.500	1	11/09/2019 14:23	WG1377899
Trichlorofluoromethane	U			0.130	2.50	1	11/09/2019 14:23	WG1377899
1,2,3-Trichloropropane	U			0.247	2.50	1	11/09/2019 14:23	WG1377899
1,2,4-Trimethylbenzene	U			0.123	0.500	1	11/09/2019 14:23	WG1377899
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	11/09/2019 14:23	WG1377899
1,3,5-Trimethylbenzene	U			0.124	0.500	1	11/09/2019 14:23	WG1377899
Vinyl acetate	U			0.645	5.00	1	11/09/2019 14:23	WG1377899
Vinyl chloride	189			0.118	0.500	1	11/09/2019 14:23	WG1377899
Xylenes, Total	U			0.316	1.50	1	11/09/2019 14:23	WG1377899
(S) Toluene-d8	*94.4*				*80.0-120*		*11/09/2019 14:23*	WG1377899
(S) 4-Bromofluorobenzene	*102*				*77.0-126*		*11/09/2019 14:23*	WG1377899
(S) 1,2-Dichloroethane-d4	*116*				*70.0-130*		*11/09/2019 14:23*	WG1377899

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	276000		2710	20000	1	11/07/2019 03:03	WG1376333

Sample Narrative:

L1156109-02 WG1376333: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	25500		51.9	1000	1	11/01/2019 18:58	WG1373549
Nitrate	U		22.7	100	1	11/01/2019 18:58	WG1373549
Sulfate	18200		77.4	5000	1	11/01/2019 18:58	WG1373549

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6500		102	1000	1	11/06/2019 00:43	WG1375433

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3360		15.0	100	1	11/07/2019 14:31	WG1373704
Manganese	307		0.250	5.00	1	11/07/2019 14:31	WG1373704

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	8040		2.87	6.78	10	11/06/2019 14:48	WG1375795
Ethane	5.07		0.296	1.29	1	11/05/2019 15:56	WG1375047
Ethene	U		0.422	1.27	1	11/05/2019 15:56	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.11 J	J J0 J4	1.05	25.0	1	11/09/2019 14:43	WG1377899
Acrylonitrile	U	~~J4~~	0.873	5.00	1	11/09/2019 14:43	WG1377899
Benzene	U		0.0896	0.500	1	11/09/2019 14:43	WG1377899
Bromobenzene	U		0.133	0.500	1	11/09/2019 14:43	WG1377899
Bromodichloromethane	U		0.0800	0.500	1	11/09/2019 14:43	WG1377899
Bromochloromethane	U		0.145	0.500	1	11/09/2019 14:43	WG1377899
Bromoform	U		0.186	0.500	1	11/09/2019 14:43	WG1377899
Bromomethane	U		0.157	2.50	1	11/09/2019 14:43	WG1377899
n-Butylbenzene	U UJ	J0 J4	0.143	0.500	1	11/09/2019 14:43	WG1377899
sec-Butylbenzene	U		0.134	0.500	1	11/09/2019 14:43	WG1377899
tert-Butylbenzene	U		0.183	0.500	1	11/09/2019 14:43	WG1377899
Carbon disulfide	0.894		0.101	0.500	1	11/09/2019 14:43	WG1377899
Carbon tetrachloride	U		0.159	0.500	1	11/09/2019 14:43	WG1377899
Chlorobenzene	U		0.140	0.500	1	11/09/2019 14:43	WG1377899
Chlorodibromomethane	U		0.128	0.500	1	11/09/2019 14:43	WG1377899
Chloroethane	U		0.141	2.50	1	11/09/2019 14:43	WG1377899
Chloroform	U		0.0860	0.500	1	11/09/2019 14:43	WG1377899
Chloromethane	U		0.153	1.25	1	11/09/2019 14:43	WG1377899
2-Chlorotoluene	U		0.111	0.500	1	11/09/2019 14:43	WG1377899
4-Chlorotoluene	U		0.0972	0.500	1	11/09/2019 14:43	WG1377899

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.325	2.50	1	11/09/2019 14:43	WG1377899
1,2-Dibromoethane	U		0.193	0.500	1	11/09/2019 14:43	WG1377899
Dibromomethane	U		0.117	0.500	1	11/09/2019 14:43	WG1377899
1,2-Dichlorobenzene	U		0.101	0.500	1	11/09/2019 14:43	WG1377899
1,3-Dichlorobenzene	U		0.130	0.500	1	11/09/2019 14:43	WG1377899
1,4-Dichlorobenzene	U		0.121	0.500	1	11/09/2019 14:43	WG1377899
Dichlorodifluoromethane	U		0.127	2.50	1	11/09/2019 14:43	WG1377899
1,1-Dichloroethane	U		0.114	0.500	1	11/09/2019 14:43	WG1377899
1,2-Dichloroethane	U		0.108	0.500	1	11/09/2019 14:43	WG1377899
1,1-Dichloroethene	U		0.188	0.500	1	11/09/2019 14:43	WG1377899
cis-1,2-Dichloroethene	U		0.0933	0.500	1	11/09/2019 14:43	WG1377899
trans-1,2-Dichloroethene	U		0.152	0.500	1	11/09/2019 14:43	WG1377899
1,2-Dichloropropane	U		0.190	0.500	1	11/09/2019 14:43	WG1377899
1,1-Dichloropropene	U		0.128	0.500	1	11/09/2019 14:43	WG1377899
1,3-Dichloropropane	U		0.147	1.00	1	11/09/2019 14:43	WG1377899
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/09/2019 14:43	WG1377899
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/09/2019 14:43	WG1377899
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/09/2019 14:43	WG1377899
2,2-Dichloropropane	U		0.0929	0.500	1	11/09/2019 14:43	WG1377899
Di-isopropyl ether	U		0.0924	0.500	1	11/09/2019 14:43	WG1377899
Ethylbenzene	U		0.158	0.500	1	11/09/2019 14:43	WG1377899
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/09/2019 14:43	WG1377899
2-Hexanone	U		0.757	5.00	1	11/09/2019 14:43	WG1377899
n-Hexane	U		0.305	5.00	1	11/09/2019 14:43	WG1377899
Iodomethane	U		0.377	10.0	1	11/09/2019 14:43	WG1377899
Isopropylbenzene	U		0.126	0.500	1	11/09/2019 14:43	WG1377899
p-Isopropyltoluene	U		0.138	0.500	1	11/09/2019 14:43	WG1377899
2-Butanone (MEK)	U UJ	J0	1.28	5.00	1	11/09/2019 14:43	WG1377899
Methylene Chloride	U UJ	J0	1.07	2.50	1	11/09/2019 14:43	WG1377899
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/09/2019 14:43	WG1377899
Methyl tert-butyl ether	U		0.102	0.500	1	11/09/2019 14:43	WG1377899
Naphthalene	U		0.174	2.50	1	11/09/2019 14:43	WG1377899
n-Propylbenzene	U		0.162	0.500	1	11/09/2019 14:43	WG1377899
Styrene	U		0.117	0.500	1	11/09/2019 14:43	WG1377899
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/09/2019 14:43	WG1377899
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/09/2019 14:43	WG1377899
1,1,2-Trichlorotrifluoroethane	U UJ	J0 J4	0.164	0.500	1	11/09/2019 14:43	WG1377899
Tetrachloroethene	U		0.199	0.500	1	11/09/2019 14:43	WG1377899
Toluene	U		0.412	0.500	1	11/09/2019 14:43	WG1377899
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/09/2019 14:43	WG1377899
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/09/2019 14:43	WG1377899
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/09/2019 14:43	WG1377899
1,1,2-Trichloroethane	U		0.186	0.500	1	11/09/2019 14:43	WG1377899
Trichloroethene	U		0.153	0.500	1	11/09/2019 14:43	WG1377899
Trichlorofluoromethane	U		0.130	2.50	1	11/09/2019 14:43	WG1377899
1,2,3-Trichloropropane	U		0.247	2.50	1	11/09/2019 14:43	WG1377899
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/09/2019 14:43	WG1377899
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/09/2019 14:43	WG1377899
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/09/2019 14:43	WG1377899
Vinyl acetate	U		0.645	5.00	1	11/09/2019 14:43	WG1377899
Vinyl chloride	U		0.118	0.500	1	11/09/2019 14:43	WG1377899
Xylenes, Total	U		0.316	1.50	1	11/09/2019 14:43	WG1377899
(S) Toluene-d8	*91.8*			*80.0-120*		*11/09/2019 14:43*	WG1377899
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*11/09/2019 14:43*	WG1377899
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*11/09/2019 14:43*	WG1377899

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	7650		2.87	6.78	10	11/06/2019 14:52	WG1375795
Ethane	U		0.296	1.29	1	11/05/2019 16:01	WG1375047
Ethene	U		0.422	1.27	1	11/05/2019 16:01	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
Acetone	3.74	J	J J0 J4	1.05	25.0	1	11/09/2019 15:04	WG1377899
Acrylonitrile	U		~~J4~~	0.873	5.00	1	11/09/2019 15:04	WG1377899
Benzene	U			0.0896	0.500	1	11/09/2019 15:04	WG1377899
Bromobenzene	U			0.133	0.500	1	11/09/2019 15:04	WG1377899
Bromodichloromethane	U			0.0800	0.500	1	11/09/2019 15:04	WG1377899
Bromochloromethane	U			0.145	0.500	1	11/09/2019 15:04	WG1377899
Bromoform	U			0.186	0.500	1	11/09/2019 15:04	WG1377899
Bromomethane	U			0.157	2.50	1	11/09/2019 15:04	WG1377899
n-Butylbenzene	U	UJ	J0 J4	0.143	0.500	1	11/09/2019 15:04	WG1377899
sec-Butylbenzene	U			0.134	0.500	1	11/09/2019 15:04	WG1377899
tert-Butylbenzene	U			0.183	0.500	1	11/09/2019 15:04	WG1377899
Carbon disulfide	U			0.101	0.500	1	11/09/2019 15:04	WG1377899
Carbon tetrachloride	U			0.159	0.500	1	11/09/2019 15:04	WG1377899
Chlorobenzene	U			0.140	0.500	1	11/09/2019 15:04	WG1377899
Chlorodibromomethane	U			0.128	0.500	1	11/09/2019 15:04	WG1377899
Chloroethane	U			0.141	2.50	1	11/09/2019 15:04	WG1377899
Chloroform	U			0.0860	0.500	1	11/09/2019 15:04	WG1377899
Chloromethane	U			0.153	1.25	1	11/09/2019 15:04	WG1377899
2-Chlorotoluene	U			0.111	0.500	1	11/09/2019 15:04	WG1377899
4-Chlorotoluene	U			0.0972	0.500	1	11/09/2019 15:04	WG1377899
1,2-Dibromo-3-Chloropropane	U	UJ	J0	0.325	2.50	1	11/09/2019 15:04	WG1377899
1,2-Dibromoethane	U			0.193	0.500	1	11/09/2019 15:04	WG1377899
Dibromomethane	U			0.117	0.500	1	11/09/2019 15:04	WG1377899
1,2-Dichlorobenzene	U			0.101	0.500	1	11/09/2019 15:04	WG1377899
1,3-Dichlorobenzene	U			0.130	0.500	1	11/09/2019 15:04	WG1377899
1,4-Dichlorobenzene	U			0.121	0.500	1	11/09/2019 15:04	WG1377899
Dichlorodifluoromethane	U			0.127	2.50	1	11/09/2019 15:04	WG1377899
1,1-Dichloroethane	U			0.114	0.500	1	11/09/2019 15:04	WG1377899
1,2-Dichloroethane	U			0.108	0.500	1	11/09/2019 15:04	WG1377899
1,1-Dichloroethene	U			0.188	0.500	1	11/09/2019 15:04	WG1377899
cis-1,2-Dichloroethene	U			0.0933	0.500	1	11/09/2019 15:04	WG1377899
trans-1,2-Dichloroethene	U			0.152	0.500	1	11/09/2019 15:04	WG1377899
1,2-Dichloropropane	U			0.190	0.500	1	11/09/2019 15:04	WG1377899
1,1-Dichloropropene	U			0.128	0.500	1	11/09/2019 15:04	WG1377899
1,3-Dichloropropane	U			0.147	1.00	1	11/09/2019 15:04	WG1377899
cis-1,3-Dichloropropene	U			0.0976	0.500	1	11/09/2019 15:04	WG1377899
trans-1,3-Dichloropropene	U			0.222	0.500	1	11/09/2019 15:04	WG1377899
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/09/2019 15:04	WG1377899
2,2-Dichloropropane	U			0.0929	0.500	1	11/09/2019 15:04	WG1377899
Di-isopropyl ether	U			0.0924	0.500	1	11/09/2019 15:04	WG1377899
Ethylbenzene	U			0.158	0.500	1	11/09/2019 15:04	WG1377899
Hexachloro-1,3-butadiene	U			0.157	1.00	1	11/09/2019 15:04	WG1377899
2-Hexanone	U			0.757	5.00	1	11/09/2019 15:04	WG1377899
n-Hexane	U			0.305	5.00	1	11/09/2019 15:04	WG1377899
Iodomethane	U			0.377	10.0	1	11/09/2019 15:04	WG1377899
Isopropylbenzene	U			0.126	0.500	1	11/09/2019 15:04	WG1377899
p-Isopropyltoluene	U			0.138	0.500	1	11/09/2019 15:04	WG1377899
2-Butanone (MEK)	U			1.28	5.00	1	11/09/2019 15:04	WG1377899

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U	UJ J0	1.07	2.50	1	11/09/2019 15:04	WG1377899
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/09/2019 15:04	WG1377899
Methyl tert-butyl ether	U		0.102	0.500	1	11/09/2019 15:04	WG1377899
Naphthalene	U		0.174	2.50	1	11/09/2019 15:04	WG1377899
n-Propylbenzene	U		0.162	0.500	1	11/09/2019 15:04	WG1377899
Styrene	U		0.117	0.500	1	11/09/2019 15:04	WG1377899
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/09/2019 15:04	WG1377899
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/09/2019 15:04	WG1377899
1,1,2-Trichlorotrifluoroethane	U	UJ J0 J4	0.164	0.500	1	11/09/2019 15:04	WG1377899
Tetrachloroethene	U		0.199	0.500	1	11/09/2019 15:04	WG1377899
Toluene	U		0.412	0.500	1	11/09/2019 15:04	WG1377899
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/09/2019 15:04	WG1377899
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/09/2019 15:04	WG1377899
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/09/2019 15:04	WG1377899
1,1,2-Trichloroethane	U		0.186	0.500	1	11/09/2019 15:04	WG1377899
Trichloroethene	U		0.153	0.500	1	11/09/2019 15:04	WG1377899
Trichlorofluoromethane	U		0.130	2.50	1	11/09/2019 15:04	WG1377899
1,2,3-Trichloropropane	U		0.247	2.50	1	11/09/2019 15:04	WG1377899
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/09/2019 15:04	WG1377899
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/09/2019 15:04	WG1377899
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/09/2019 15:04	WG1377899
Vinyl acetate	U		0.645	5.00	1	11/09/2019 15:04	WG1377899
Vinyl chloride	U		0.118	0.500	1	11/09/2019 15:04	WG1377899
Xylenes, Total	U		0.316	1.50	1	11/09/2019 15:04	WG1377899
(S) Toluene-d8	*94.6*			*80.0-120*		*11/09/2019 15:04*	WG1377899
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*11/09/2019 15:04*	WG1377899
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*11/09/2019 15:04*	WG1377899

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	405000		2710	20000	1	11/07/2019 17:54	WG1376629

Sample Narrative:

L1156445-01 WG1376629: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	68400		51.9	1000	1	11/02/2019 12:20	WG1373953
Nitrate	U		22.7	100	1	11/02/2019 12:20	WG1373953
Sulfate	28000		77.4	5000	1	11/02/2019 12:20	WG1373953

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4340		102	1000	1	11/06/2019 04:59	WG1375433

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3570		15.0	100	1	11/06/2019 16:20	WG1375892
Manganese	5180		0.250	5.00	1	11/06/2019 16:20	WG1375892

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1490		0.287	0.678	1	11/05/2019 16:34	WG1375047
Ethane	U		0.296	1.29	1	11/05/2019 16:34	WG1375047
Ethene	U		0.422	1.27	1	11/05/2019 16:34	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.15	J	1.05	25.0	1	11/11/2019 00:18	WG1378314
Acrylonitrile	U		0.873	5.00	1	11/11/2019 00:18	WG1378314
Benzene	U		0.0896	0.500	1	11/11/2019 00:18	WG1378314
Bromobenzene	U	UJ J0	0.133	0.500	1	11/11/2019 00:18	WG1378314
Bromodichloromethane	U		0.0800	0.500	1	11/11/2019 00:18	WG1378314
Bromochloromethane	U		0.145	0.500	1	11/11/2019 00:18	WG1378314
Bromoform	U		0.186	0.500	1	11/11/2019 00:18	WG1378314
Bromomethane	U		0.157	2.50	1	11/11/2019 00:18	WG1378314
n-Butylbenzene	U	UJ J0	0.143	0.500	1	11/11/2019 00:18	WG1378314
sec-Butylbenzene	U		0.134	0.500	1	11/11/2019 00:18	WG1378314
tert-Butylbenzene	U		0.183	0.500	1	11/11/2019 00:18	WG1378314
Carbon disulfide	U		0.101	0.500	1	11/11/2019 00:18	WG1378314
Carbon tetrachloride	U	J4	0.159	0.500	1	11/11/2019 00:18	WG1378314
Chlorobenzene	U		0.140	0.500	1	11/11/2019 00:18	WG1378314
Chlorodibromomethane	U		0.128	0.500	1	11/11/2019 00:18	WG1378314
Chloroethane	U		0.141	2.50	1	11/11/2019 00:18	WG1378314
Chloroform	U		0.0860	0.500	1	11/11/2019 00:18	WG1378314
Chloromethane	U		0.153	1.25	1	11/11/2019 00:18	WG1378314
2-Chlorotoluene	U		0.111	0.500	1	11/11/2019 00:18	WG1378314
4-Chlorotoluene	U		0.0972	0.500	1	11/11/2019 00:18	WG1378314

JC 12/19/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/11/2019 00:18	WG1378314
1,2-Dibromoethane	U		0.193	0.500	1	11/11/2019 00:18	WG1378314
Dibromomethane	U		0.117	0.500	1	11/11/2019 00:18	WG1378314
1,2-Dichlorobenzene	U		0.101	0.500	1	11/11/2019 00:18	WG1378314
1,3-Dichlorobenzene	U		0.130	0.500	1	11/11/2019 00:18	WG1378314
1,4-Dichlorobenzene	U		0.121	0.500	1	11/11/2019 00:18	WG1378314
Dichlorodifluoromethane	U		0.127	2.50	1	11/11/2019 00:18	WG1378314
1,1-Dichloroethane	U		0.114	0.500	1	11/11/2019 00:18	WG1378314
1,2-Dichloroethane	U		0.108	0.500	1	11/11/2019 00:18	WG1378314
1,1-Dichloroethene	U		0.188	0.500	1	11/11/2019 00:18	WG1378314
cis-1,2-Dichloroethene	U		0.0933	0.500	1	11/11/2019 00:18	WG1378314
trans-1,2-Dichloroethene	U		0.152	0.500	1	11/11/2019 00:18	WG1378314
1,2-Dichloropropane	U		0.190	0.500	1	11/11/2019 00:18	WG1378314
1,1-Dichloropropene	U		0.128	0.500	1	11/11/2019 00:18	WG1378314
1,3-Dichloropropane	U		0.147	1.00	1	11/11/2019 00:18	WG1378314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/11/2019 00:18	WG1378314
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/11/2019 00:18	WG1378314
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	11/11/2019 00:18	WG1378314
2,2-Dichloropropane	U		0.0929	0.500	1	11/11/2019 00:18	WG1378314
Di-isopropyl ether	U		0.0924	0.500	1	11/11/2019 00:18	WG1378314
Ethylbenzene	U		0.158	0.500	1	11/11/2019 00:18	WG1378314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/11/2019 00:18	WG1378314
2-Hexanone	U		0.757	5.00	1	11/11/2019 00:18	WG1378314
n-Hexane	U		0.305	5.00	1	11/11/2019 00:18	WG1378314
Iodomethane	U		0.377	10.0	1	11/11/2019 00:18	WG1378314
Isopropylbenzene	U		0.126	0.500	1	11/11/2019 00:18	WG1378314
p-Isopropyltoluene	U		0.138	0.500	1	11/11/2019 00:18	WG1378314
2-Butanone (MEK)	U		1.28	5.00	1	11/11/2019 00:18	WG1378314
Methylene Chloride	U		1.07	2.50	1	11/11/2019 00:18	WG1378314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/11/2019 00:18	WG1378314
Methyl tert-butyl ether	U		0.102	0.500	1	11/11/2019 00:18	WG1378314
Naphthalene	U	UJ J0	0.174	2.50	1	11/11/2019 00:18	WG1378314
n-Propylbenzene	U	UJ J0	0.162	0.500	1	11/11/2019 00:18	WG1378314
Styrene	U		0.117	0.500	1	11/11/2019 00:18	WG1378314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/11/2019 00:18	WG1378314
1,1,2,2-Tetrachloroethane	U	UJ J0	0.130	0.500	1	11/11/2019 00:18	WG1378314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/11/2019 00:18	WG1378314
Tetrachloroethene	U		0.199	0.500	1	11/11/2019 00:18	WG1378314
Toluene	U		0.412	0.500	1	11/11/2019 00:18	WG1378314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/11/2019 00:18	WG1378314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/11/2019 00:18	WG1378314
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/11/2019 00:18	WG1378314
1,1,2-Trichloroethane	U		0.186	0.500	1	11/11/2019 00:18	WG1378314
Trichloroethene	U	J4	0.153	0.500	1	11/11/2019 00:18	WG1378314
Trichlorofluoromethane	U		0.130	2.50	1	11/11/2019 00:18	WG1378314
1,2,3-Trichloropropane	U		0.247	2.50	1	11/11/2019 00:18	WG1378314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/11/2019 00:18	WG1378314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/11/2019 00:18	WG1378314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/11/2019 00:18	WG1378314
Vinyl acetate	U	UJ J0	0.645	5.00	1	11/11/2019 00:18	WG1378314
Vinyl chloride	U		0.118	0.500	1	11/11/2019 00:18	WG1378314
Xylenes, Total	U		0.316	1.50	1	11/11/2019 00:18	WG1378314
(S) Toluene-d8	*107*			*80.0-120*		*11/11/2019 00:18*	WG1378314
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*11/11/2019 00:18*	WG1378314
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*11/11/2019 00:18*	WG1378314

JC 12/19/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	408000		2710	20000	1	11/14/2019 02:40	WG1379400

Sample Narrative:

L1158143-01 WG1379400: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	24300		51.9	1000	1	11/08/2019 01:15	WG1376795
Nitrate	33.1 U	B J	22.7	100	1	11/08/2019 01:15	WG1376795
Sulfate	37000		77.4	5000	1	11/08/2019 01:15	WG1376795

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3200		102	1000	1	11/10/2019 05:44	WG1378047

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	400		15.0	100	1	11/10/2019 22:05	WG1377945
Manganese	2670		0.250	5.00	1	11/10/2019 22:05	WG1377945

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	U		0.287	0.678	1	11/11/2019 14:38	WG1378445
Ethane	U		0.296	1.29	1	11/11/2019 14:38	WG1378445
Ethene	U		0.422	1.27	1	11/11/2019 14:38	WG1378445

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.32 U	B J	1.05	25.0	1	11/16/2019 01:30	WG1381516
Acrylonitrile	U		0.873	5.00	1	11/16/2019 01:30	WG1381516
Benzene	U		0.0896	0.500	1	11/16/2019 01:30	WG1381516
Bromobenzene	U		0.133	0.500	1	11/16/2019 01:30	WG1381516
Bromodichloromethane	U		0.0800	0.500	1	11/16/2019 01:30	WG1381516
Bromochloromethane	U		0.145	0.500	1	11/16/2019 01:30	WG1381516
Bromoform	U		0.186	0.500	1	11/16/2019 01:30	WG1381516
Bromomethane	U		0.157	2.50	1	11/19/2019 15:21	WG1382748
n-Butylbenzene	U		0.143	0.500	1	11/16/2019 01:30	WG1381516
sec-Butylbenzene	U		0.134	0.500	1	11/16/2019 01:30	WG1381516
tert-Butylbenzene	U		0.183	0.500	1	11/16/2019 01:30	WG1381516
Carbon disulfide	0.990		0.101	0.500	1	11/16/2019 01:30	WG1381516
Carbon tetrachloride	U		0.159	0.500	1	11/16/2019 01:30	WG1381516
Chlorobenzene	U		0.140	0.500	1	11/16/2019 01:30	WG1381516
Chlorodibromomethane	U		0.128	0.500	1	11/16/2019 01:30	WG1381516
Chloroethane	U		0.141	2.50	1	11/16/2019 01:30	WG1381516
Chloroform	U		0.0860	0.500	1	11/16/2019 01:30	WG1381516
Chloromethane	U		0.153	1.25	1	11/16/2019 01:30	WG1381516
2-Chlorotoluene	U		0.111	0.500	1	11/16/2019 01:30	WG1381516
4-Chlorotoluene	U		0.0972	0.500	1	11/16/2019 01:30	WG1381516

JC 12/19/19

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/16/2019 01:30	WG1381516
1,2-Dibromoethane	U		0.193	0.500	1	11/16/2019 01:30	WG1381516
Dibromomethane	U		0.117	0.500	1	11/16/2019 01:30	WG1381516
1,2-Dichlorobenzene	U		0.101	0.500	1	11/16/2019 01:30	WG1381516
1,3-Dichlorobenzene	U		0.130	0.500	1	11/16/2019 01:30	WG1381516
1,4-Dichlorobenzene	U		0.121	0.500	1	11/16/2019 01:30	WG1381516
Dichlorodifluoromethane	U		0.127	2.50	1	11/16/2019 01:30	WG1381516
1,1-Dichloroethane	U		0.114	0.500	1	11/16/2019 01:30	WG1381516
1,2-Dichloroethane	U		0.108	0.500	1	11/16/2019 01:30	WG1381516
1,1-Dichloroethene	U		0.188	0.500	1	11/16/2019 01:30	WG1381516
cis-1,2-Dichloroethene	1.27		0.0933	0.500	1	11/19/2019 15:21	WG1382748
trans-1,2-Dichloroethene	U		0.152	0.500	1	11/19/2019 15:21	WG1382748
1,2-Dichloropropane	U		0.190	0.500	1	11/16/2019 01:30	WG1381516
1,1-Dichloropropene	U		0.128	0.500	1	11/16/2019 01:30	WG1381516
1,3-Dichloropropane	U		0.147	1.00	1	11/16/2019 01:30	WG1381516
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/16/2019 01:30	WG1381516
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/16/2019 01:30	WG1381516
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	11/16/2019 01:30	WG1381516
2,2-Dichloropropane	U		0.0929	0.500	1	11/16/2019 01:30	WG1381516
Di-isopropyl ether	U		0.0924	0.500	1	11/16/2019 01:30	WG1381516
Ethylbenzene	U		0.158	0.500	1	11/16/2019 01:30	WG1381516
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/16/2019 01:30	WG1381516
2-Hexanone	U		0.757	5.00	1	11/16/2019 01:30	WG1381516
n-Hexane	U		0.305	5.00	1	11/16/2019 01:30	WG1381516
Iodomethane	U	UJ J0	0.377	10.0	1	11/16/2019 01:30	WG1381516
Isopropylbenzene	U		0.126	0.500	1	11/16/2019 01:30	WG1381516
p-Isopropyltoluene	U		0.138	0.500	1	11/16/2019 01:30	WG1381516
2-Butanone (MEK)	U		1.28	5.00	1	11/16/2019 01:30	WG1381516
Methylene Chloride	U		1.07	2.50	1	11/16/2019 01:30	WG1381516
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/16/2019 01:30	WG1381516
Methyl tert-butyl ether	U		0.102	0.500	1	11/16/2019 01:30	WG1381516
Naphthalene	U		0.174	2.50	1	11/16/2019 01:30	WG1381516
n-Propylbenzene	U		0.162	0.500	1	11/16/2019 01:30	WG1381516
Styrene	U		0.117	0.500	1	11/16/2019 01:30	WG1381516
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/16/2019 01:30	WG1381516
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/16/2019 01:30	WG1381516
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/16/2019 01:30	WG1381516
Tetrachloroethene	U		0.199	0.500	1	11/19/2019 15:21	WG1382748
Toluene	U		0.412	0.500	1	11/16/2019 01:30	WG1381516
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/16/2019 01:30	WG1381516
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/16/2019 01:30	WG1381516
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/16/2019 01:30	WG1381516
1,1,2-Trichloroethane	U		0.186	0.500	1	11/16/2019 01:30	WG1381516
Trichloroethene	U		0.153	0.500	1	11/19/2019 15:21	WG1382748
Trichlorofluoromethane	U		0.130	2.50	1	11/16/2019 01:30	WG1381516
1,2,3-Trichloropropane	U	UJ J0	0.247	2.50	1	11/19/2019 15:21	WG1382748
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/16/2019 01:30	WG1381516
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/16/2019 01:30	WG1381516
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/16/2019 01:30	WG1381516
Vinyl acetate	U		0.645	5.00	1	11/16/2019 01:30	WG1381516
Vinyl chloride	U		0.118	0.500	1	11/19/2019 15:21	WG1382748
Xylenes, Total	U		0.316	1.50	1	11/16/2019 01:30	WG1381516
(S) Toluene-d8	*98.4*			*80.0-120*		*11/16/2019 01:30*	WG1381516
(S) Toluene-d8	*109*			*80.0-120*		*11/19/2019 15:21*	WG1382748
(S) 4-Bromofluorobenzene	*96.1*			*77.0-126*		*11/16/2019 01:30*	WG1381516
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*11/19/2019 15:21*	WG1382748

JC 12/19/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*11/16/2019 01:30*	WG1381516
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*11/19/2019 15:21*	WG1382748

JC 12/19/19

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	176000		2710	20000	1	11/21/2019 14:32	WG1384195

Sample Narrative:

L1161106-01 WG1384195: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	8170		51.9	1000	1	11/15/2019 17:07	WG1381079
Nitrate	161	P1	22.7	100	1	11/15/2019 17:07	WG1381079
Sulfate	2570	J	77.4	5000	1	11/15/2019 17:07	WG1381079

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4190		102	1000	1	11/19/2019 03:34	WG1382360

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	4010		15.0	100	1	11/16/2019 14:53	WG1381630
Manganese	329		0.250	5.00	1	11/16/2019 14:53	WG1381630

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/20/2019 08:45	WG1383395
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*11/20/2019 08:45*	WG1383395

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	224		0.287	0.678	1	11/20/2019 11:40	WG1383583
Ethane	U		0.296	1.29	1	11/20/2019 11:40	WG1383583
Ethene	U		0.422	1.27	1	11/20/2019 11:40	WG1383583

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	1.19	J	1.05	25.0	1	11/24/2019 11:49	WG1386329	JC 12/19/19
Acrylonitrile	U		0.873	5.00	1	11/23/2019 01:56	WG1385753	
Benzene	U		0.0896	0.500	1	11/23/2019 01:56	WG1385753	
Bromobenzene	U		0.133	0.500	1	11/23/2019 01:56	WG1385753	
Bromodichloromethane	U		0.0800	0.500	1	11/23/2019 01:56	WG1385753	
Bromochloromethane	U		0.145	0.500	1	11/23/2019 01:56	WG1385753	
Bromoform	U		0.186	0.500	1	11/23/2019 01:56	WG1385753	
Bromomethane	U	UJ J0	0.157	2.50	1	11/23/2019 01:56	WG1385753	
n-Butylbenzene	U		0.143	0.500	1	11/23/2019 01:56	WG1385753	
sec-Butylbenzene	U		0.134	0.500	1	11/23/2019 01:56	WG1385753	
tert-Butylbenzene	U		0.183	0.500	1	11/23/2019 01:56	WG1385753	
Carbon disulfide	U		0.101	0.500	1	11/23/2019 01:56	WG1385753	
Carbon tetrachloride	U		0.159	0.500	1	11/23/2019 01:56	WG1385753	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/23/2019 01:56	WG1385753
Chlorodibromomethane	U		0.128	0.500	1	11/23/2019 01:56	WG1385753
Chloroethane	U		0.141	2.50	1	11/23/2019 01:56	WG1385753
Chloroform	U		0.0860	0.500	1	11/23/2019 01:56	WG1385753
Chloromethane	U		0.153	1.25	1	11/23/2019 01:56	WG1385753
2-Chlorotoluene	U		0.111	0.500	1	11/23/2019 01:56	WG1385753
4-Chlorotoluene	U		0.0972	0.500	1	11/23/2019 01:56	WG1385753
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/23/2019 01:56	WG1385753
1,2-Dibromoethane	U		0.193	0.500	1	11/23/2019 01:56	WG1385753
Dibromomethane	U		0.117	0.500	1	11/23/2019 01:56	WG1385753
1,2-Dichlorobenzene	U		0.101	0.500	1	11/23/2019 01:56	WG1385753
1,3-Dichlorobenzene	U		0.130	0.500	1	11/23/2019 01:56	WG1385753
1,4-Dichlorobenzene	U		0.121	0.500	1	11/23/2019 01:56	WG1385753
Dichlorodifluoromethane	U		0.127	2.50	1	11/23/2019 01:56	WG1385753
1,1-Dichloroethane	U		0.114	0.500	1	11/23/2019 01:56	WG1385753
1,2-Dichloroethane	U		0.108	0.500	1	11/23/2019 01:56	WG1385753
1,1-Dichloroethene	U		0.188	0.500	1	11/23/2019 01:56	WG1385753
cis-1,2-Dichloroethene	U		0.0933	0.500	1	11/23/2019 01:56	WG1385753
trans-1,2-Dichloroethene	U		0.152	0.500	1	11/23/2019 01:56	WG1385753
1,2-Dichloropropane	U		0.190	0.500	1	11/23/2019 01:56	WG1385753
1,1-Dichloropropene	U		0.128	0.500	1	11/23/2019 01:56	WG1385753
1,3-Dichloropropane	U		0.147	1.00	1	11/23/2019 01:56	WG1385753
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/23/2019 01:56	WG1385753
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/23/2019 01:56	WG1385753
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	11/23/2019 01:56	WG1385753
2,2-Dichloropropane	U		0.0929	0.500	1	11/23/2019 01:56	WG1385753
Di-isopropyl ether	U		0.0924	0.500	1	11/23/2019 01:56	WG1385753
Ethylbenzene	U		0.158	0.500	1	11/23/2019 01:56	WG1385753
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/23/2019 01:56	WG1385753
2-Hexanone	U		0.757	5.00	1	11/23/2019 01:56	WG1385753
n-Hexane	U		0.305	5.00	1	11/23/2019 01:56	WG1385753
Iodomethane	U	UJ J0	0.377	10.0	1	11/23/2019 01:56	WG1385753
Isopropylbenzene	U		0.126	0.500	1	11/23/2019 01:56	WG1385753
p-Isopropyltoluene	U		0.138	0.500	1	11/23/2019 01:56	WG1385753
2-Butanone (MEK)	U		1.28	5.00	1	11/23/2019 01:56	WG1385753
Methylene Chloride	U		1.07	2.50	1	11/23/2019 01:56	WG1385753
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/23/2019 01:56	WG1385753
Methyl tert-butyl ether	U		0.102	0.500	1	11/23/2019 01:56	WG1385753
Naphthalene	U		0.174	2.50	1	11/23/2019 01:56	WG1385753
n-Propylbenzene	U		0.162	0.500	1	11/23/2019 01:56	WG1385753
Styrene	U		0.117	0.500	1	11/23/2019 01:56	WG1385753
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/23/2019 01:56	WG1385753
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/23/2019 01:56	WG1385753
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/23/2019 01:56	WG1385753
Tetrachloroethene	U		0.199	0.500	1	11/23/2019 01:56	WG1385753
Toluene	U		0.412	0.500	1	11/23/2019 01:56	WG1385753
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/23/2019 01:56	WG1385753
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/23/2019 01:56	WG1385753
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/23/2019 01:56	WG1385753
1,1,2-Trichloroethane	U		0.186	0.500	1	11/23/2019 01:56	WG1385753
Trichloroethene	U		0.153	0.500	1	11/23/2019 01:56	WG1385753
Trichlorofluoromethane	U		0.130	2.50	1	11/23/2019 01:56	WG1385753
1,2,3-Trichloropropane	U		0.247	2.50	1	11/23/2019 01:56	WG1385753
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/23/2019 01:56	WG1385753
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/23/2019 01:56	WG1385753
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/23/2019 01:56	WG1385753

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/23/2019 01:56	WG1385753
Vinyl chloride	U		0.118	0.500	1	11/23/2019 01:56	WG1385753
Xylenes, Total	U		0.316	1.50	1	11/23/2019 01:56	WG1385753
(S) Toluene-d8	*90.2*			*80.0-120*		*11/23/2019 01:56*	WG1385753
(S) Toluene-d8	*87.9*			*80.0-120*		*11/24/2019 11:49*	WG1386329
(S) 4-Bromofluorobenzene	*93.4*			*77.0-126*		*11/23/2019 01:56*	WG1385753
(S) 4-Bromofluorobenzene	*95.6*			*77.0-126*		*11/24/2019 11:49*	WG1386329
(S) 1,2-Dichloroethane-d4	*90.6*			*70.0-130*		*11/23/2019 01:56*	WG1385753
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*11/24/2019 11:49*	WG1386329

JC 12/19/19

MEMORANDUM

TO:	Project File	**DATE:**	December 9, 2019
FROM:	Jessie Compeau		
SUBJECT:	Laboratory Data Validation Review		
PROJECT:	American Linen Data Validation		
PROJECT #:	1413.001.02.501F		
TASK:	EIM Data Validation Level EPA2A for November 2019 – Soil Vapor Samples		
LAB:	Pace Sample Delivery Groups (SDG): L1156530		

Three (3) soil vapor samples (including one field duplicate) were collected as part of the ongoing sampling event at the Former American Linen Supply Site, in Seattle, Washington on November 1, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method TO-15

The quality assurance review of the sample data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with PACE control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

The laboratory supplied a Summa Canister ^{TM} canister (1Liter) for the air sample. The sample was shipped, delivered by FedEx, and received in good condition by the laboratory. The sample was collected, handled, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling techniques.

Holding Times

The analyses for VOCs by Method TO-15 were performed within the 30-day recommended holding time limit for the air samples collected in Summa canisters. All holding time criteria are met.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Case narrative and laboratory notes do not indicate that there are any issues with calibration.

Method Blank Results

A laboratory method blank is included with the analytical batch per method requirement. The target analytes were not detected in the method blank at or above the RDLs.

Trip Blank Results

A trip blank was not required for the VOCs by TO-15 analyses. No action is taken other than to note this.

Field Duplicate Analyses

Field duplicate sample pair is as follows:

- SDG L1156530: Samples SV01-110119 and SV01-110119-D

Target analyte results are comparable and within a relative percent difference (RPD) of 30% for the field duplicate pair with the following exceptions:

- SDG L1156530: Samples SV01-110119 and SV01-110119-D – Multiple VOC results are not comparable with RPDs greater than 30% (for results < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for 1,1-dichloroethane, ethanol, dichlorodifluoromethane, n-hexane, methylene chloride, 2-propanol, tetrachloroethene, toluene, and 1,1,1-trichloroethene are estimated and qualified (UJ/J).**

Laboratory Duplicate/Replicate Analyses

A laboratory replicate was not performed. Refer to the Laboratory Control Sample section for additional information.

Surrogate Recoveries

The surrogate percent recovery (% R) results for the VOCs by TO-15 air samples, method blank, and laboratory control samples are within the laboratory surrogate control limits of 60 -140% R. No data qualifications were warranted.

Laboratory Control Samples

A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) were analyzed for the VOCs by TO-15 along with each analytical batch. The LCS/LCSD recovery and relative percent differences (RPDs) for all control compounds met laboratory control limit criteria.

Matrix Spike/Matrix Spike Duplicates

A matrix spike/matrix spike duplicate (MS/MSD) is not required for the VOCs by TO-15 method.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Quantitation Limits

Results of the VOCs by TO-15 analysis are reported based on laboratory MRLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of ppbv and μg/m^3.

The RDLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The RDLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

No data qualifiers are assigned. All data are judged to be acceptable for their intended use.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	11.6	27.6		1	WG1375952
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1375952
Benzene	71-43-2	78.10	0.200	0.639	0.225	0.719		1	WG1375952
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1375952
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1375952
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1375952
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1375952
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1375952
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1375952
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1375952
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1375952
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1375952
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1375952
Chloromethane	74-87-3	50.50	0.200	0.413	0.384	0.793		1	WG1375952
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1375952
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1375952
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1375952
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1375952
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1375952
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1375952
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1375952
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1375952
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND	UJ	1	WG1375952
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1375952
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1375952
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1375952
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1375952
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1375952
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1375952
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1375952
Ethanol	64-17-5	46.10	0.630	1.19	22.3	42.0	J	1	WG1375952
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1375952
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1375952
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1375952
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.488	2.41	J	1	WG1375952
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1375952
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1375952
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1375952
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1375952
n-Hexane	110-54-3	86.20	0.200	0.705	2.24	7.90	J	1	WG1375952
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1375952
Methylene Chloride	75-09-2	84.90	0.200	0.694	7.18	24.9	J	1	WG1375952
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1375952
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1375952
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1375952
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1375952
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1375952
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1375952
2-Propanol	67-63-0	60.10	1.25	3.07	6.65	16.3	J	1	WG1375952
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1375952
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1375952
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1375952
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND	UJ	1	WG1375952
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1375952
Toluene	108-88-3	92.10	0.200	0.753	1.43	5.39	J	1	WG1375952
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1375952

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	3.63	19.7	J	1	WG1375952
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1375952
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1375952
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1375952
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1375952
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1375952
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1375952
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1375952
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1375952
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1375952
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1375952
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.9*				WG1375952

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SAMPLE RESULTS - 02

L1156530

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	8.72	20.7		1	WG1375952
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1375952
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1375952
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1375952
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1375952
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1375952
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1375952
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1375952
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1375952
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1375952
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1375952
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1375952
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1375952
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1375952
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1375952
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1375952
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1375952
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1375952
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1375952
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1375952
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1375952
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1375952
1,1-Dichloroethane	75-34-3	98	0.200	0.802	0.853	3.42	J	1	WG1375952
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1375952
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1375952
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1375952
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1375952
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1375952
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1375952
1,4-Dioxane	123-91-1	88.10	0.200	0.721	0.221	0.796		1	WG1375952
Ethanol	64-17-5	46.10	0.630	1.19	10.2	19.2	J	1	WG1375952
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1375952
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1375952
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1375952
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND	UJ	1	WG1375952
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1375952
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1375952
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1375952
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1375952
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND	UJ	1	WG1375952
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1375952
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND	UJ	1	WG1375952
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1375952
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1375952
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1375952
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1375952
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1375952
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1375952
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND	UJ	1	WG1375952
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1375952
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1375952
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1375952
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.405	2.75	J	1	WG1375952
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1375952
Toluene	108-88-3	92.10	0.200	0.753	0.431	1.62	J	1	WG1375952
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1375952

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	12.6	68.5	J	1	WG1375952
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1375952
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1375952
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1375952
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1375952
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1375952
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1375952
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1375952
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1375952
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1375952
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1375952
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*93.5*				WG1375952

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG1375952
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1375952
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1375952
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1375952
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1375952
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1375952
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1375952
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1375952
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1375952
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1375952
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1375952
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1375952
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1375952
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1375952
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1375952
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1375952
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1375952
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1375952
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1375952
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1375952
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1375952
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1375952
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1375952
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1375952
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1375952
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1375952
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1375952
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1375952
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1375952
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1375952
Ethanol	64-17-5	46.10	0.630	1.19	16.6	31.3		1	WG1375952
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1375952
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1375952
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.851	4.78		1	WG1375952
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG1375952
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1375952
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1375952
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1375952
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1375952
n-Hexane	110-54-3	86.20	0.200	0.705	0.309	1.09		1	WG1375952
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1375952
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.28	4.44		1	WG1375952
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1375952
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1375952
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1375952
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1375952
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1375952
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1375952
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1375952
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1375952
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1375952
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1375952
Tetrachloroethylene	127-18-4	166	0.200	1.36	2.14	14.5		1	WG1375952
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1375952
Toluene	108-88-3	92.10	0.200	0.753	0.386	1.45		1	WG1375952
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1375952

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1375952
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1375952
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1375952
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1375952
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1375952
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1375952
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1375952
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1375952
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1375952
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1375952
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1375952
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG1375952

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 12/9/19

MEMORANDUM

TO:	Project File	**DATE:**	January 6, 2020
FROM:	Jessie Compeau		
SUBJECT:	Laboratory Data Validation Review		
PROJECT:	American Linen Data Validation		
PROJECT #:	1413.001.05.601		
TASK:	EIM Data Validation Level EPA2A for October and November 2019 – Groundwater Samples		
LAB:	Pace Sample Delivery Groups (SDGs): L1156093, L1156483, L1157016, L1157450, L1158133, and L1159108		

Twenty-six (26) groundwater samples (including two field duplicates), and six (6) trip blanks were collected as Round 4 Quarterly Monitoring sampling event at the Former American Linen Supply Site, in Seattle, Washington, between October 31 and November 8, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- VOCs by USEPA Method TO-15;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (Chloride, Nitrate, and Sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B.

Samples were collected between October 31 and November 8, 2019 and results are reported in six Pace SDGs (L1156093, L1156483, L1157016, L1157450, L1158133, and L1159108). The quality assurance review of the sample data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with PACE control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for

Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested with the following discussions:

- SDG L1156093, L1158133, and L1159108: Review of the chain of custody (COC) shows that the very lower portion (the area below the signatures and dates) of the COC are missing. No action is taken since signatures and dates are visible.

- SDG L1157016: The trip blank sample is identified as TP-110419 instead of TB-110419. No action is taken other than to note this.

- SDGs L1157450 and L1158133: All analytical parameters were requested for the trip blank. Trip blank samples were analyzed for gasoline and VOCs. No action is taken other than to note that this appears to be inadvertent.

- SDG L1159108: Samples submitted for gasoline analysis (analytical batch WG1380039) were transferred to Pace's laboratory in Sacramento, California. The associated trip blank (TB-110819) was not forwarded with the batch and received in a later shipment on November 14, 2019 and was received warm at 16.7°C. No action was taken other than to note this.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C with one exception as noted above (refer to discussion under SDG L1159108). Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260C:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

NWTPH-Gx Method:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:
All samples were analyzed within the USEPA recommended holding time for iron and manganese of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDGs L1156093, L1156483, L1157016, L1157450, L1158133, and L1159108 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for several compounds associated with the trip blanks. The compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. No action is taken other than to note this.

- SDGs L1156093, L1156483, L1157016, L1157450, L1158133, and L1159108 - *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

Method Blank Results

USEPA Method 8260C:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDGs L1158133 - Analytical batch WG1381516: A low level of acetone is detected in the method blank. A low level of acetone is also detected in the trip blank. **Acetone detections in samples MW-920-110619, MW-180-110619, MW-177-110619, and MW-179-110619 are detected below the RDL are qualified (U) as non-detects due to trip, and/or method blank contamination.**

- SDG L1159108- Analytical batch WG1381516: A low level of acetone is detected in the method blank. **Acetone detections in samples MW-921-110819, MW-184-110819,**

MW-183-110819, MW-181-110819, and MW-182-110819 are detected below the RDL are qualified (U) as non-detects due to method blank contamination.

NWTPH-Gx Method:
Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1157016 - Analytical batch WG1378064: Gasoline is detected at a low level (below the RDL) in the method blank and trip blank. **Gasoline detection in sample MW-168-110419 is detected below the RDL and qualified (U) as non-detect due to trip, and/or method blank contamination.**

- SDG L1157450 - Analytical batch WG1378064: Gasoline is detected at a low level (below the RDL) in the method blank and trip blank. **Gasoline detection in sample MW-169-110519 is detected below the RDL and qualified (U) as non-detect due to trip, and/or method blank contamination.**

- SDG L1158133 - Analytical batch WG1378064: Gasoline is detected at a low level (below the RDL) in the method blank and trip blank. No action is taken since all detections are greater than the RDL.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020B and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL. General chemistry and metal blank detections are shown below:

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1156093	WG1376333	SM2320B	Alkalinity as CaCO3, Total	3390	J	20000	ug/L	NO
L1156093	WG1373918	9056A	Sulfate	87.3	J	5000	ug/L	NO
L1156093	WG1375433	6020B	TOC	345	J	1000	ug/L	NO
L1156483	WG1376785	SM2320B	Alkalinity as CaCO3, Total	3380	J	20000	ug/L	NO
L1156483	WG1375433	9060A	TOC	345	J	1000	ug/L	NO
L1156483	WG1376183	9060A	TOC	421	J	1000	ug/L	NO
L1156483	WG1375892	9056A	Manganese	0.432	J	5.00	ug/L	NO
L1157016	WG1376842	SM2320B	Alkalinity as CaCO3, Total	3760	J	20000	ug/L	NO
L1157016	WG1376183	9060A	TOC	421	J	1000	ug/L	NO
L1157016	WG1376376	9060A	TOC	480	J	1000	ug/L	NO
L1157016	WG1376376	9060A	TOC	396	J	1000	ug/L	NO
L1157016	WG1376698	6020B	Manganese	0.447	J	5.00	ug/L	NO
L1157450	WG1378816	SM2320B	Alkalinity as CaCO3, Total	4200	J	20000	ug/L	NO

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1157450	WG1377120	9060A	TOC	400	J	1000	ug/L	NO
L1158133	WG1379400	SM2320B	Alkalinity as CaCO3, Total	4200	J	20000	ug/L	NO
L1158133	WG1376738	9056A	Sulfate	128	J	5000	ug/L	NO
L1158133	WG1376795	9056A	Chloride	131	J	1000	ug/L	NO
L1158133	WG1376795	9060A	Nitrate	30.1	J	100	ug/L	NO
L1158133	WG1376795	SM2320B	Sulfate	221	J	5000	ug/L	NO
L1158133	WG1378047	9060A	TOC	296	J	1000	ug/L	NO
L1158133	WG1378255	9060A	TOC	359	J	1000	ug/L	NO
L1158133	WG1377945	6020B	Manganese	0.736	J	5.00	ug/L	NO
L1158133	WG1377945	6020B	Manganese	0.574	J	5.00	ug/L	NO
L1159108	WG1381472	SM2320B	Alkalinity as CaCO3, Total	3170	J	20000	ug/L	NO
L1159108	WG1377890	9056A	Chloride	136	J	1000	ug/L	NO
L1159108	WG1377890	9056A	Sulfate	209	J	5000	ug/L	NO
L1159108	WG1379453	9060A	TOC	218	J	1000	ug/L	NO
L1159108	WG1379539	6020B	Manganese	0.466	J	5.00	ug/L	NO

Trip Blank Results

USEPA Method 8260C and NWTPH-Gx:
Eight trip blanks were collected and submitted for analysis. The target analytes were not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1156483 - Analytical batch WG1377928: Low levels of acetone, cis-1,2-dichloroethene, and trichloroethene are detected (below the RDLs) in the trip blank. **Associated acetone detections, below the RDL, in samples are qualified as not detected (U). cis-1,2-Dichloroethene is detected below the RDL in sample MW-174-110119 and is qualified as not detected (U). Trichloroethene is detected below the RDL in sample MW-173-110119 and is qualified (U) due to trip blank contamination.**

- SDG L1157016: A low level of gasoline was detected in the trip blank. Associated sample MW-168-110419 gasoline result is qualified as not detected (U) due to blank contamination. Low levels of cis-1,2-dichloroethene and trichloroethene are detected, below the RDLs, in the trip blank. No action is taken for cis-1,2-dichloroethene as detections are far greater than the trip blank contamination. **Trichloroethene is detected below the RDL in samples MW-166-110419 and MW-167-110419. Trichloroethene results in samples MW-166-110419 and MW-167-110419 are qualified (U) due to trip blank contamination.**

- SDG L1157450: A low level of gasoline was detected in the trip and method blanks. **Associated sample MW-169-110519 gasoline result is qualified as not detected (U) due to blank contamination.** A low level of acetone is detected in the trip blank. Acetone is detected below the RDL in samples MW-172-110519, MW-169-110519, and MW-170-110519. **Acetone results for these samples are qualified (U) as non-detect due to trip blank contamination.**

- SDG L1158133: A low level of gasoline was detected in both trip and method blanks. No action is taken since associated gasoline detections are greater than the RDL. Low levels of acetone are detected in both trip and method blanks. Acetone was detected at low levels in associated samples MW-920-110619, MW-180-110619, MW-177-110619 and MW-179-110619. **Acetone results for these samples are qualified (U) as non-detect due to trip and method blank contamination.**

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:
Equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pairs are as follows:

- SDG L1158133: Samples MW-177-110619 and MW-920-110619; and
- SDG L1159108: Samples MW-181-110819 and MW-921-111819.

Target analyte results are comparable and within a relative percent difference (RPD) of 30% (for results < 5X RDL the absolute difference < 1X RDL) for the field duplicate pair with the following exceptions:

- SDG L1158133: Samples MW-177-110619 and MW-920-110619 – Carbon disulfide, chloroethane, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride results are not comparable with an RPD greater than 30% or for results < 5X RDL the absolute difference < 1X RDL. **Field duplicate results for these VOC compounds are estimated and qualified (J/UJ).**

- SDG L1159108: Samples MW-181-110819 and MW-921-111819 – Carbon disulfide results are not comparable at two different dilutions (1X and 5X) and RPDs greater than 30% or for results < 5X RDL the absolute difference < 1X RDL. **Field duplicate results for carbon disulfide are estimated and qualified (J/UJ).**

Laboratory Duplicate Analyses

USEPA Method 8260C:
Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

NWTPH-Gx Method:
A laboratory duplicate sample was not analyzed. Refer to LCS/LCSD or MS/MSDs results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
A laboratory duplicate sample was performed on client samples and on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits with the following discussions:

- SDG L1156093 - Analytical batch WG1373918: The laboratory duplicate was performed on a non-client sample. Results for sulfate are qualified (E) by the laboratory to indicate that the analyte concentration exceeded the upper calibration range. No action was taken other than to note that the other laboratory duplicates and LCS percent recovery results are within criteria.

- SDG L1156093 - Analytical batch WG1375176: The laboratory duplicate was performed on a non-client sample. Results for chloride are qualified (E) by the laboratory to indicate that the analyte concentration exceeded the upper calibration range. No action was taken other than to note that the other laboratory duplicates and LCS percent recovery results are within criteria.

- SDG L1159108 - Analytical batch WG1377890: The laboratory duplicate was performed on a non-client sample. Results for chloride are qualified (E) by the laboratory to indicate that the analyte concentration exceeded the upper calibration range. No action was taken other than to note that the other laboratory duplicates and LCS percent recovery results are within criteria.

Surrogate Recoveries

USEPA Method 8260C:
The surrogate recovery results for the samples, laboratory control samples, trip blanks, and the method blanks are within the laboratory surrogate control limits for all the analyses.

NWTPH-Gx Method:
The surrogate recovery results for the samples, laboratory control samples, trip blanks, and the method blanks are within the laboratory surrogate control limits for all analyses.

Laboratory Control Samples

USEPA Method 8260C:
Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or

LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions:

- SDG L1156093 - Analytical batch WG1377899. An LCSD was not analyzed. No action is taken on this basis. Refer to field duplicate results for precision data. LCS % recoveries for acetone and acrylonitrile are above control limit criteria. LCS recoveries for n-butylbenzene and 1,1,2-trichlorotrifluoroethane are below laboratory acceptance criteria. No action is taken for acetone and n-butylbenzene as results are already qualified due to calibration issues. No action is taken for acrylonitrile since it is not detected in the associated samples. **All associated results for 1,1,2-trichlorotrifluoroethane are estimated and qualified (J/UJ) due to low LCS recovery.**

- SDG L1156483 Analytical batch WG1377928. An LCSD was not analyzed. No action is taken on this basis. Refer to field duplicate results for precision data. LCS % recovery for dichlorodifluoromethane is above laboratory control limit criteria. No action is taken for 1,1,2-trichlorotrifluoroethane as it is not detected in the associated samples.

- SDG L1157016 - Analytical batches WG1378382, WG1378635, WG1379440 and WG1379454. An LCSD was not analyzed with these batches. Refer to field duplicate results for precision data.

- SDG L1157450 - Analytical batches WG1378382 and WG1378635. An LCSD was not analyzed. Refer to field duplicate data for precision data.

NWTPH-Gx Method:
The LCS or LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD %Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:
The LCS/LCSD %Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS or LCS/LCSD %Rs and RPDs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260C:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and field duplicate data for accuracy and precision data.

NWTPH-Gx Method:

MS/MSD analyses were performed on a non-client sample within the analytical batch. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
MS/MSD analyses were not performed. Refer to LCS/LCSD for accuracy and precision data.

USEPA Method 6020B:
MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDG L1156093 - Analytical batch WG1373704: MS/MSD were performed on client sample MW-185-103119. The sample amount for manganese is greater than four times the spike amount and MSD results are qualified (V) by the laboratory. Per Guidance, no action is necessary. LCS/LCSD results are within criteria.

- SDG L1157016 - Analytical batch WG1376698: MS/MSD were performed a non-client sample. The sample amount for manganese is greater than four times the spike amount and MSD results are qualified (V) by the laboratory. Per Guidance, no action is necessary. LCS/LCSD results are within criteria.

- SDG L1159108 - Analytical batch WG1379539: MS/MSD were performed a non-client sample. The sample amount for manganese is greater than four times the spike amount and MSD results are qualified (V) by the laboratory. Per Guidance, no action is necessary. LCS/LCSD results are within criteria.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDG L1156093 - Analytical batch WG1373431: The MS was performed on a client sample MW-186-103119. Results for chloride are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that the laboratory duplicates and LCS percent recovery results are within criteria.

- SDG L1156093 - Analytical batch WG1373918: The MS/MSD was performed on a non-client sample. Results for sulfate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that the laboratory duplicates and LCS percent recovery results are within criteria.

- SDG L1156483 - Analytical batch WG1373953: The MS/MSD was performed on a non-client sample. Results for chloride are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that the laboratory duplicates and LCS percent recovery results are within criteria.

- SDG L1157016 - Analytical batch WG1375176: The MS/MSD was performed on a non-client sample. Results for chloride are qualified (EV) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range and that the sample amount was far greater than the spiked amount. No action was taken other than to note that one of the laboratory duplicates and LCS percent recovery results are within criteria.

- SDG L1159108 - Analytical batch WG1377890: The MS/MSD was performed on a non-client sample. Results for chloride are qualified (EV) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range and that the sample amount was far greater than the spiked amount. No action was taken other than to note that one of the laboratory duplicates and LCS percent recovery results are within criteria.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

- Multiple SDGs: Selected sample narratives for alkalinity results indicate that several sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Several chlorinated VOC compounds (including cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene, and tetrachloroethene) elute within the GRO retention time range. Elevated chlorinated VOC compounds likely contribute to the GRO result and associated GRO results are likely biased high (J+). No action was taken for gasoline detections below the RDL since the results are estimated (J). Qualified samples are as follows:

Sample ID	**Laboratory Identification**	**Result Parameter Name**	**Result Value (µg/L)**	**Qualified Result**	**Comments**
MW-185-103119	L1156093-01	Gasoline Range Organics	446	J+	Elevated chlorinated VOCs within the GRO elution range
MW-165-110419	L1157016-01	Gasoline Range Organics	3940	J+	Elevated chlorinated VOCs within the GRO elution range

MW-166-110419	L1157016-02	Gasoline Range Organics	4360	J+	Elevated chlorinated VOCs within the GRO elution range
MW-172-110519	L1157450-01	Gasoline Range Organics	4960	J+	Elevated chlorinated VOCs within the GRO elution range
MW-171-110519	L1157450-02	Gasoline Range Organics	371	J+	Elevated chlorinated VOCs within the GRO elution range
MW-170-110519	L1157450-04	Gasoline Range Organics	22700	J+	Elevated chlorinated VOCs within the GRO elution range
MW-177-110619	L1158133-04	Gasoline Range Organics	122000	J+	Elevated chlorinated VOCs within the GRO elution range
MW-920-110619	L1158133-01	Gasoline Range Organics	127000	J+	Elevated chlorinated VOCs within the GRO elution range
MW-180-110619	L1158133-02	Gasoline Range Organics	220	J+	Elevated chlorinated VOCs within the GRO elution range
MW-178-110619	L1158133-03	Gasoline Range Organics	249	J+	Elevated chlorinated VOCs within the GRO elution range
MW-179-110619	L1158133-05	Gasoline Range Organics	2310	J+	Elevated chlorinated VOCs within the GRO elution range
MW-181-110819	L1159108-04	Gasoline Range Organics	23900	J+	Elevated chlorinated VOCs within the GRO elution range
MW-921-110819	L1159108-01	Gasoline Range Organics	23700	J+	Elevated chlorinated VOCs within the GRO elution range
MW-184-110819	L1159108-02	Gasoline Range Organics	2310	J+	Elevated chlorinated VOCs within the GRO elution range
MW-182-110819	L1159108-05	Gasoline Range Organics	14100	J+	Elevated chlorinated VOCs within the GRO elution range

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. No action is taken other than to note that Pace sample narrative notes indicate that VOC target compounds were too high to run at lower dilution for samples as follows:

- SDG L1157450: Sample MW-171-110519;
- SDG L1158133: Samples MW-180-110619, MW-177-110619 (and field duplicate MW-920-110619), MW-178-110619, MW-179-110619, and MW-107-072219;
- SDG L1158133: Sample MW-177-110619 (and field duplicate MW-920-110619) results for 1,1-dichloroethene are qualified (E) by the laboratory to indicate that these results exceed the upper limit of the calibration range. **Sample MW-177-110619 (and field duplicate MW-920-110619) results for 1,1-dichloroethene are estimated and qualified (J) because the exceed the upper limit of the calibration range.**; and
- SDG L1159108: Samples MW-181-110819 (and field duplicate MW-921-110819), MW-184-110819, and MW-182-110819.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	731000		2710	20000	1	11/07/2019 02:33	WG1376333

Sample Narrative:

L1156093-01 WG1376333: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	116000		260	5000	5	11/01/2019 19:27	WG1373431
Nitrate	U		22.7	100	1	11/01/2019 18:48	WG1373431
Sulfate	38100		77.4	5000	1	11/02/2019 18:25	WG1373918

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	51400		102	1000	1	11/06/2019 09:22	WG1375433

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	9910		15.0	100	1	11/07/2019 13:21	WG1373704
Manganese	1630	~~V~~	0.250	5.00	1	11/07/2019 13:21	WG1373704

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	446 J+		31.6	100	1	11/06/2019 05:23	WG1375449
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*11/06/2019 05:23*	WG1375449

JC 1/6/20

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	10300		2.87	6.78	10	11/07/2019 11:18	WG1376536
Ethane	9.69		0.296	1.29	1	11/05/2019 15:15	WG1375047
Ethene	232		0.422	1.27	1	11/05/2019 15:15	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	79.4 J	J0 J4	1.05	25.0	1	11/09/2019 13:23	WG1377899
Acrylonitrile	U	~~J4~~	0.873	5.00	1	11/09/2019 13:23	WG1377899
Benzene	0.140	J	0.0896	0.500	1	11/09/2019 13:23	WG1377899
Bromobenzene	U		0.133	0.500	1	11/09/2019 13:23	WG1377899
Bromodichloromethane	U		0.0800	0.500	1	11/09/2019 13:23	WG1377899
Bromochloromethane	U		0.145	0.500	1	11/09/2019 13:23	WG1377899
Bromoform	U		0.186	0.500	1	11/09/2019 13:23	WG1377899
Bromomethane	U		0.157	2.50	1	11/09/2019 13:23	WG1377899
n-Butylbenzene	U UJ	J0 J4	0.143	0.500	1	11/09/2019 13:23	WG1377899
sec-Butylbenzene	U		0.134	0.500	1	11/09/2019 13:23	WG1377899
tert-Butylbenzene	U		0.183	0.500	1	11/09/2019 13:23	WG1377899
Carbon disulfide	U		0.101	0.500	1	11/09/2019 13:23	WG1377899
Carbon tetrachloride	U		0.159	0.500	1	11/09/2019 13:23	WG1377899

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/09/2019 13:23	WG1377899
Chlorodibromomethane	U		0.128	0.500	1	11/09/2019 13:23	WG1377899
Chloroethane	0.930	J	0.141	2.50	1	11/09/2019 13:23	WG1377899
Chloroform	0.504		0.0860	0.500	1	11/09/2019 13:23	WG1377899
Chloromethane	U		0.153	1.25	1	11/09/2019 13:23	WG1377899
2-Chlorotoluene	U		0.111	0.500	1	11/09/2019 13:23	WG1377899
4-Chlorotoluene	U		0.0972	0.500	1	11/09/2019 13:23	WG1377899
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.325	2.50	1	11/09/2019 13:23	WG1377899
1,2-Dibromoethane	U		0.193	0.500	1	11/09/2019 13:23	WG1377899
Dibromomethane	U		0.117	0.500	1	11/09/2019 13:23	WG1377899
1,2-Dichlorobenzene	U		0.101	0.500	1	11/09/2019 13:23	WG1377899
1,3-Dichlorobenzene	U		0.130	0.500	1	11/09/2019 13:23	WG1377899
1,4-Dichlorobenzene	U		0.121	0.500	1	11/09/2019 13:23	WG1377899
Dichlorodifluoromethane	U		0.127	2.50	1	11/09/2019 13:23	WG1377899
1,1-Dichloroethane	U		0.114	0.500	1	11/09/2019 13:23	WG1377899
1,2-Dichloroethane	U		0.108	0.500	1	11/09/2019 13:23	WG1377899
1,1-Dichloroethene	0.897		0.188	0.500	1	11/09/2019 13:23	WG1377899
cis-1,2-Dichloroethene	547		1.87	10.0	20	11/11/2019 00:39	WG1378314
trans-1,2-Dichloroethene	5.47		0.152	0.500	1	11/09/2019 13:23	WG1377899
1,2-Dichloropropane	U		0.190	0.500	1	11/09/2019 13:23	WG1377899
1,1-Dichloropropene	U		0.128	0.500	1	11/09/2019 13:23	WG1377899
1,3-Dichloropropane	U		0.147	1.00	1	11/09/2019 13:23	WG1377899
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/09/2019 13:23	WG1377899
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/09/2019 13:23	WG1377899
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/09/2019 13:23	WG1377899
2,2-Dichloropropane	U		0.0929	0.500	1	11/09/2019 13:23	WG1377899
Di-isopropyl ether	U		0.0924	0.500	1	11/09/2019 13:23	WG1377899
Ethylbenzene	U		0.158	0.500	1	11/09/2019 13:23	WG1377899
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/09/2019 13:23	WG1377899
2-Hexanone	U		0.757	5.00	1	11/09/2019 13:23	WG1377899
n-Hexane	U		0.305	5.00	1	11/09/2019 13:23	WG1377899
Iodomethane	U		0.377	10.0	1	11/09/2019 13:23	WG1377899
Isopropylbenzene	U		0.126	0.500	1	11/09/2019 13:23	WG1377899
p-Isopropyltoluene	U		0.138	0.500	1	11/09/2019 13:23	WG1377899
2-Butanone (MEK)	16.0 J	J0	1.28	5.00	1	11/09/2019 13:23	WG1377899
Methylene Chloride	U UJ	J0	1.07	2.50	1	11/09/2019 13:23	WG1377899
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/09/2019 13:23	WG1377899
Methyl tert-butyl ether	U		0.102	0.500	1	11/09/2019 13:23	WG1377899
Naphthalene	U		0.174	2.50	1	11/09/2019 13:23	WG1377899
n-Propylbenzene	U		0.162	0.500	1	11/09/2019 13:23	WG1377899
Styrene	U		0.117	0.500	1	11/09/2019 13:23	WG1377899
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/09/2019 13:23	WG1377899
1,1,2,2-Tetrachloroethane	U UJ	J0	0.130	0.500	1	11/09/2019 13:23	WG1377899
1,1,2-Trichlorotrifluoroethane	U UJ	J4	0.164	0.500	1	11/09/2019 13:23	WG1377899
Tetrachloroethene	2.57		0.199	0.500	1	11/09/2019 13:23	WG1377899
Toluene	U		0.412	0.500	1	11/09/2019 13:23	WG1377899
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/09/2019 13:23	WG1377899
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/09/2019 13:23	WG1377899
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/09/2019 13:23	WG1377899
1,1,2-Trichloroethane	U		0.186	0.500	1	11/09/2019 13:23	WG1377899
Trichloroethene	3.51		0.153	0.500	1	11/09/2019 13:23	WG1377899
Trichlorofluoromethane	U		0.130	2.50	1	11/09/2019 13:23	WG1377899
1,2,3-Trichloropropane	U		0.247	2.50	1	11/09/2019 13:23	WG1377899
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/09/2019 13:23	WG1377899
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/09/2019 13:23	WG1377899
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/09/2019 13:23	WG1377899

JC 1/3/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/09/2019 13:23	WG1377899
Vinyl chloride	179		0.118	0.500	1	11/09/2019 13:23	WG1377899
Xylenes, Total	U		0.316	1.50	1	11/09/2019 13:23	WG1377899
(S) Toluene-d8	*95.7*			*80.0-120*		*11/09/2019 13:23*	WG1377899
(S) Toluene-d8	*110*			*80.0-120*		*11/11/2019 00:39*	WG1378314
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*11/09/2019 13:23*	WG1377899
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*11/11/2019 00:39*	WG1378314
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*11/09/2019 13:23*	WG1377899
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*11/11/2019 00:39*	WG1378314

JC 1/3/2020

MW-186-103119

Collected date/time: 10/31/19 14:50

SAMPLE RESULTS - 02

L1156093

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	320000		2710	20000	1	11/07/2019 02:41	WG1376333

Sample Narrative:

L1156093-02 WG1376333: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	62900		51.9	1000	1	11/01/2019 19:41	WG1373431
Nitrate	U		22.7	100	1	11/01/2019 19:41	WG1373431
Sulfate	31400		77.4	5000	1	11/02/2019 18:50	WG1373918

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5290		102	1000	1	11/05/2019 22:13	WG1375433

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	501		15.0	100	1	11/07/2019 13:35	WG1373704
Manganese	280		0.250	5.00	1	11/07/2019 13:35	WG1373704

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/06/2019 05:47	WG1375449
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*11/06/2019 05:47*	WG1375449

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	1030		0.287	0.678	1	11/05/2019 15:18	WG1375047
Ethane	5.78		0.296	1.29	1	11/05/2019 15:18	WG1375047
Ethene	18.4		0.422	1.27	1	11/05/2019 15:18	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	4.13 J	J J0 J4	1.05	25.0	1	11/09/2019 13:43	WG1377899
Acrylonitrile	U	~~J4~~	0.873	5.00	1	11/09/2019 13:43	WG1377899
Benzene	U		0.0896	0.500	1	11/09/2019 13:43	WG1377899
Bromobenzene	U		0.133	0.500	1	11/09/2019 13:43	WG1377899
Bromodichloromethane	U		0.0800	0.500	1	11/09/2019 13:43	WG1377899
Bromochloromethane	U		0.145	0.500	1	11/09/2019 13:43	WG1377899
Bromoform	U		0.186	0.500	1	11/09/2019 13:43	WG1377899
Bromomethane	U		0.157	2.50	1	11/09/2019 13:43	WG1377899
n-Butylbenzene	U UJ	J0 J4	0.143	0.500	1	11/09/2019 13:43	WG1377899
sec-Butylbenzene	U		0.134	0.500	1	11/09/2019 13:43	WG1377899
tert-Butylbenzene	U		0.183	0.500	1	11/09/2019 13:43	WG1377899
Carbon disulfide	U		0.101	0.500	1	11/09/2019 13:43	WG1377899
Carbon tetrachloride	U		0.159	0.500	1	11/09/2019 13:43	WG1377899

JC 1/3/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/09/2019 13:43	WG1377899
Chlorodibromomethane	U		0.128	0.500	1	11/09/2019 13:43	WG1377899
Chloroethane	U		0.141	2.50	1	11/09/2019 13:43	WG1377899
Chloroform	0.170	J	0.0860	0.500	1	11/09/2019 13:43	WG1377899
Chloromethane	U		0.153	1.25	1	11/09/2019 13:43	WG1377899
2-Chlorotoluene	U		0.111	0.500	1	11/09/2019 13:43	WG1377899
4-Chlorotoluene	U		0.0972	0.500	1	11/09/2019 13:43	WG1377899
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.325	2.50	1	11/09/2019 13:43	WG1377899
1,2-Dibromoethane	U		0.193	0.500	1	11/09/2019 13:43	WG1377899
Dibromomethane	U		0.117	0.500	1	11/09/2019 13:43	WG1377899
1,2-Dichlorobenzene	U		0.101	0.500	1	11/09/2019 13:43	WG1377899
1,3-Dichlorobenzene	U		0.130	0.500	1	11/09/2019 13:43	WG1377899
1,4-Dichlorobenzene	U		0.121	0.500	1	11/09/2019 13:43	WG1377899
Dichlorodifluoromethane	U		0.127	2.50	1	11/09/2019 13:43	WG1377899
1,1-Dichloroethane	U		0.114	0.500	1	11/09/2019 13:43	WG1377899
1,2-Dichloroethane	U		0.108	0.500	1	11/09/2019 13:43	WG1377899
1,1-Dichloroethene	U		0.188	0.500	1	11/09/2019 13:43	WG1377899
cis-1,2-Dichloroethene	4.15		0.0933	0.500	1	11/10/2019 23:58	WG1378314
trans-1,2-Dichloroethene	U		0.152	0.500	1	11/09/2019 13:43	WG1377899
1,2-Dichloropropane	U		0.190	0.500	1	11/09/2019 13:43	WG1377899
1,1-Dichloropropene	U		0.128	0.500	1	11/09/2019 13:43	WG1377899
1,3-Dichloropropane	U		0.147	1.00	1	11/09/2019 13:43	WG1377899
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/09/2019 13:43	WG1377899
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/09/2019 13:43	WG1377899
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/09/2019 13:43	WG1377899
2,2-Dichloropropane	U		0.0929	0.500	1	11/09/2019 13:43	WG1377899
Di-isopropyl ether	U		0.0924	0.500	1	11/09/2019 13:43	WG1377899
Ethylbenzene	U		0.158	0.500	1	11/09/2019 13:43	WG1377899
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/09/2019 13:43	WG1377899
2-Hexanone	U		0.757	5.00	1	11/09/2019 13:43	WG1377899
n-Hexane	U		0.305	5.00	1	11/09/2019 13:43	WG1377899
Iodomethane	U		0.377	10.0	1	11/09/2019 13:43	WG1377899
Isopropylbenzene	U		0.126	0.500	1	11/09/2019 13:43	WG1377899
p-Isopropyltoluene	U		0.138	0.500	1	11/09/2019 13:43	WG1377899
2-Butanone (MEK)	U		1.28	5.00	1	11/09/2019 13:43	WG1377899
Methylene Chloride	U UJ	J0	1.07	2.50	1	11/09/2019 13:43	WG1377899
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/09/2019 13:43	WG1377899
Methyl tert-butyl ether	U		0.102	0.500	1	11/09/2019 13:43	WG1377899
Naphthalene	U		0.174	2.50	1	11/09/2019 13:43	WG1377899
n-Propylbenzene	U		0.162	0.500	1	11/09/2019 13:43	WG1377899
Styrene	U		0.117	0.500	1	11/09/2019 13:43	WG1377899
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/09/2019 13:43	WG1377899
1,1,2,2-Tetrachloroethane	U UJ	J0	0.130	0.500	1	11/09/2019 13:43	WG1377899
1,1,2-Trichlorotrifluoroethane	U UJ	J4	0.164	0.500	1	11/09/2019 13:43	WG1377899
Tetrachloroethene	0.199	J	0.199	0.500	1	11/09/2019 13:43	WG1377899
Toluene	U		0.412	0.500	1	11/09/2019 13:43	WG1377899
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/09/2019 13:43	WG1377899
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/09/2019 13:43	WG1377899
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/09/2019 13:43	WG1377899
1,1,2-Trichloroethane	U		0.186	0.500	1	11/09/2019 13:43	WG1377899
Trichloroethene	U		0.153	0.500	1	11/09/2019 13:43	WG1377899
Trichlorofluoromethane	U		0.130	2.50	1	11/09/2019 13:43	WG1377899
1,2,3-Trichloropropane	U		0.247	2.50	1	11/09/2019 13:43	WG1377899
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/09/2019 13:43	WG1377899
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/09/2019 13:43	WG1377899
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/09/2019 13:43	WG1377899

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/09/2019 13:43	WG1377899
Vinyl chloride	23.4		0.118	0.500	1	11/09/2019 13:43	WG1377899
Xylenes, Total	U		0.316	1.50	1	11/09/2019 13:43	WG1377899
(S) Toluene-d8	*95.1*			*80.0-120*		*11/09/2019 13:43*	WG1377899
(S) Toluene-d8	*109*			*80.0-120*		*11/10/2019 23:58*	WG1378314
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*11/09/2019 13:43*	WG1377899
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*11/10/2019 23:58*	WG1378314
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*11/09/2019 13:43*	WG1377899
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*11/10/2019 23:58*	WG1378314

JC 1/3/2020

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	196000		2710	20000	1	11/07/2019 02:49	WG1376333

Sample Narrative:

L1156093-03 WG1376333: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	22000		51.9	1000	1	11/01/2019 20:07	WG1373431
Nitrate	23.1	J	22.7	100	1	11/01/2019 20:07	WG1373431
Sulfate	38700		77.4	5000	1	11/02/2019 19:03	WG1373918

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1410	~~B~~	102	1000	1	11/05/2019 22:29	WG1375433

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	325		15.0	100	1	11/07/2019 13:38	WG1373704
Manganese	387		0.250	5.00	1	11/07/2019 13:38	WG1373704

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/07/2019 10:47	WG1375654
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*11/07/2019 10:47*	WG1375654

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	11/05/2019 15:50	WG1375047
Ethane	U		0.296	1.29	1	11/05/2019 15:50	WG1375047
Ethene	U		0.422	1.27	1	11/05/2019 15:50	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.54 J	J J0 J4	1.05	25.0	1	11/09/2019 14:03	WG1377899
Acrylonitrile	U	~~J4~~	0.873	5.00	1	11/09/2019 14:03	WG1377899
Benzene	U		0.0896	0.500	1	11/09/2019 14:03	WG1377899
Bromobenzene	U		0.133	0.500	1	11/09/2019 14:03	WG1377899
Bromodichloromethane	U		0.0800	0.500	1	11/09/2019 14:03	WG1377899
Bromochloromethane	U		0.145	0.500	1	11/09/2019 14:03	WG1377899
Bromoform	U		0.186	0.500	1	11/09/2019 14:03	WG1377899
Bromomethane	U		0.157	2.50	1	11/09/2019 14:03	WG1377899
n-Butylbenzene	U UJ	J0 J4	0.143	0.500	1	11/09/2019 14:03	WG1377899
sec-Butylbenzene	U		0.134	0.500	1	11/09/2019 14:03	WG1377899
tert-Butylbenzene	U		0.183	0.500	1	11/09/2019 14:03	WG1377899
Carbon disulfide	U		0.101	0.500	1	11/09/2019 14:03	WG1377899
Carbon tetrachloride	U		0.159	0.500	1	11/09/2019 14:03	WG1377899

JC 1/3/2020

SAMPLE RESULTS - 03

L1156093

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/09/2019 14:03	WG1377899
Chlorodibromomethane	U		0.128	0.500	1	11/09/2019 14:03	WG1377899
Chloroethane	U		0.141	2.50	1	11/09/2019 14:03	WG1377899
Chloroform	U		0.0860	0.500	1	11/09/2019 14:03	WG1377899
Chloromethane	U		0.153	1.25	1	11/09/2019 14:03	WG1377899
2-Chlorotoluene	U		0.111	0.500	1	11/09/2019 14:03	WG1377899
4-Chlorotoluene	U		0.0972	0.500	1	11/09/2019 14:03	WG1377899
1,2-Dibromo-3-Chloropropane	U UJ	J0	0.325	2.50	1	11/09/2019 14:03	WG1377899
1,2-Dibromoethane	U		0.193	0.500	1	11/09/2019 14:03	WG1377899
Dibromomethane	U		0.117	0.500	1	11/09/2019 14:03	WG1377899
1,2-Dichlorobenzene	U		0.101	0.500	1	11/09/2019 14:03	WG1377899
1,3-Dichlorobenzene	U		0.130	0.500	1	11/09/2019 14:03	WG1377899
1,4-Dichlorobenzene	U		0.121	0.500	1	11/09/2019 14:03	WG1377899
Dichlorodifluoromethane	U		0.127	2.50	1	11/09/2019 14:03	WG1377899
1,1-Dichloroethane	U		0.114	0.500	1	11/09/2019 14:03	WG1377899
1,2-Dichloroethane	U		0.108	0.500	1	11/09/2019 14:03	WG1377899
1,1-Dichloroethene	U		0.188	0.500	1	11/09/2019 14:03	WG1377899
cis-1,2-Dichloroethene	U		0.0933	0.500	1	11/09/2019 14:03	WG1377899
trans-1,2-Dichloroethene	U		0.152	0.500	1	11/09/2019 14:03	WG1377899
1,2-Dichloropropane	U		0.190	0.500	1	11/09/2019 14:03	WG1377899
1,1-Dichloropropene	U		0.128	0.500	1	11/09/2019 14:03	WG1377899
1,3-Dichloropropane	U		0.147	1.00	1	11/09/2019 14:03	WG1377899
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/09/2019 14:03	WG1377899
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/09/2019 14:03	WG1377899
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/09/2019 14:03	WG1377899
2,2-Dichloropropane	U		0.0929	0.500	1	11/09/2019 14:03	WG1377899
Di-isopropyl ether	U		0.0924	0.500	1	11/09/2019 14:03	WG1377899
Ethylbenzene	U		0.158	0.500	1	11/09/2019 14:03	WG1377899
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/09/2019 14:03	WG1377899
2-Hexanone	U		0.757	5.00	1	11/09/2019 14:03	WG1377899
n-Hexane	U		0.305	5.00	1	11/09/2019 14:03	WG1377899
Iodomethane	U		0.377	10.0	1	11/09/2019 14:03	WG1377899
Isopropylbenzene	U		0.126	0.500	1	11/09/2019 14:03	WG1377899
p-Isopropyltoluene	U		0.138	0.500	1	11/09/2019 14:03	WG1377899
2-Butanone (MEK)	U		1.28	5.00	1	11/09/2019 14:03	WG1377899
Methylene Chloride	U UJ	J0	1.07	2.50	1	11/09/2019 14:03	WG1377899
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/09/2019 14:03	WG1377899
Methyl tert-butyl ether	U		0.102	0.500	1	11/09/2019 14:03	WG1377899
Naphthalene	U		0.174	2.50	1	11/09/2019 14:03	WG1377899
n-Propylbenzene	U		0.162	0.500	1	11/09/2019 14:03	WG1377899
Styrene	U		0.117	0.500	1	11/09/2019 14:03	WG1377899
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/09/2019 14:03	WG1377899
1,1,2,2-Tetrachloroethane	U UJ	J0	0.130	0.500	1	11/09/2019 14:03	WG1377899
1,1,2-Trichlorotrifluoroethane	U UJ	J4	0.164	0.500	1	11/09/2019 14:03	WG1377899
Tetrachloroethene	U		0.199	0.500	1	11/09/2019 14:03	WG1377899
Toluene	U		0.412	0.500	1	11/09/2019 14:03	WG1377899
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/09/2019 14:03	WG1377899
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/09/2019 14:03	WG1377899
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/09/2019 14:03	WG1377899
1,1,2-Trichloroethane	U		0.186	0.500	1	11/09/2019 14:03	WG1377899
Trichloroethene	U		0.153	0.500	1	11/09/2019 14:03	WG1377899
Trichlorofluoromethane	U		0.130	2.50	1	11/09/2019 14:03	WG1377899
1,2,3-Trichloropropane	U		0.247	2.50	1	11/09/2019 14:03	WG1377899
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/09/2019 14:03	WG1377899
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/09/2019 14:03	WG1377899
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/09/2019 14:03	WG1377899

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/09/2019 14:03	WG1377899
Vinyl chloride	U		0.118	0.500	1	11/09/2019 14:03	WG1377899
Xylenes, Total	U		0.316	1.50	1	11/09/2019 14:03	WG1377899
(S) Toluene-d8	*96.6*			*80.0-120*		*11/09/2019 14:03*	WG1377899
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*11/09/2019 14:03*	WG1377899
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*11/09/2019 14:03*	WG1377899

JC 1/3/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	193000		2710	20000	1	11/07/2019 19:59	WG1376785

Sample Narrative:

L1156483-01 WG1376785: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	24500		51.9	1000	1	11/02/2019 17:15	WG1373953
Nitrate	U		22.7	100	1	11/02/2019 17:15	WG1373953
Sulfate	21600		77.4	5000	1	11/02/2019 17:15	WG1373953

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	27500		102	1000	1	11/06/2019 06:03	WG1375433

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5520		15.0	100	1	11/06/2019 16:24	WG1375892
Manganese	140		0.250	5.00	1	11/06/2019 16:24	WG1375892

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/07/2019 22:45	WG1375654
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*11/07/2019 22:45*	WG1375654

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	33.6		0.287	0.678	1	11/05/2019 17:05	WG1375047
Ethane	U		0.296	1.29	1	11/05/2019 17:05	WG1375047
Ethene	U		0.422	1.27	1	11/05/2019 17:05	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	12.3	U ~~J~~	1.05	25.0	1	11/12/2019 19:53	WG1378777
Acrylonitrile	U		0.873	5.00	1	11/09/2019 15:11	WG1377928
Benzene	U		0.0896	0.500	1	11/09/2019 15:11	WG1377928
Bromobenzene	U		0.133	0.500	1	11/09/2019 15:11	WG1377928
Bromodichloromethane	U		0.0800	0.500	1	11/09/2019 15:11	WG1377928
Bromochloromethane	U		0.145	0.500	1	11/09/2019 15:11	WG1377928
Bromoform	U		0.186	0.500	1	11/09/2019 15:11	WG1377928
Bromomethane	U	UJ J0	0.157	2.50	1	11/09/2019 15:11	WG1377928
n-Butylbenzene	U		0.143	0.500	1	11/09/2019 15:11	WG1377928
sec-Butylbenzene	U		0.134	0.500	1	11/09/2019 15:11	WG1377928
tert-Butylbenzene	U		0.183	0.500	1	11/09/2019 15:11	WG1377928
Carbon disulfide	0.353	J	0.101	0.500	1	11/09/2019 15:11	WG1377928
Carbon tetrachloride	U		0.159	0.500	1	11/09/2019 15:11	WG1377928

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/09/2019 15:11	WG1377928
Chlorodibromomethane	U		0.128	0.500	1	11/09/2019 15:11	WG1377928
Chloroethane	U		0.141	2.50	1	11/09/2019 15:11	WG1377928
Chloroform	0.223	J	0.0860	0.500	1	11/09/2019 15:11	WG1377928
Chloromethane	U	UJ J0	0.153	1.25	1	11/09/2019 15:11	WG1377928
2-Chlorotoluene	U		0.111	0.500	1	11/09/2019 15:11	WG1377928
4-Chlorotoluene	U		0.0972	0.500	1	11/09/2019 15:11	WG1377928
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/09/2019 15:11	WG1377928
1,2-Dibromoethane	U		0.193	0.500	1	11/09/2019 15:11	WG1377928
Dibromomethane	U		0.117	0.500	1	11/09/2019 15:11	WG1377928
1,2-Dichlorobenzene	U		0.101	0.500	1	11/09/2019 15:11	WG1377928
1,3-Dichlorobenzene	U		0.130	0.500	1	11/09/2019 15:11	WG1377928
1,4-Dichlorobenzene	U		0.121	0.500	1	11/09/2019 15:11	WG1377928
Dichlorodifluoromethane	U	~~J4~~	0.127	2.50	1	11/09/2019 15:11	WG1377928
1,1-Dichloroethane	U		0.114	0.500	1	11/09/2019 15:11	WG1377928
1,2-Dichloroethane	U		0.108	0.500	1	11/09/2019 15:11	WG1377928
1,1-Dichloroethene	U		0.188	0.500	1	11/09/2019 15:11	WG1377928
cis-1,2-Dichloroethene	2.34		0.0933	0.500	1	11/09/2019 15:11	WG1377928
trans-1,2-Dichloroethene	U		0.152	0.500	1	11/09/2019 15:11	WG1377928
1,2-Dichloropropane	U		0.190	0.500	1	11/09/2019 15:11	WG1377928
1,1-Dichloropropene	U		0.128	0.500	1	11/09/2019 15:11	WG1377928
1,3-Dichloropropane	U		0.147	1.00	1	11/09/2019 15:11	WG1377928
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/09/2019 15:11	WG1377928
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/09/2019 15:11	WG1377928
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/09/2019 15:11	WG1377928
2,2-Dichloropropane	U		0.0929	0.500	1	11/09/2019 15:11	WG1377928
Di-isopropyl ether	U		0.0924	0.500	1	11/09/2019 15:11	WG1377928
Ethylbenzene	U		0.158	0.500	1	11/09/2019 15:11	WG1377928
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/09/2019 15:11	WG1377928
2-Hexanone	U		0.757	5.00	1	11/09/2019 15:11	WG1377928
n-Hexane	U		0.305	5.00	1	11/09/2019 15:11	WG1377928
Iodomethane	U	UJ J0	0.377	10.0	1	11/09/2019 15:11	WG1377928
Isopropylbenzene	U		0.126	0.500	1	11/09/2019 15:11	WG1377928
p-Isopropyltoluene	U		0.138	0.500	1	11/09/2019 15:11	WG1377928
2-Butanone (MEK)	U		1.28	5.00	1	11/09/2019 15:11	WG1377928
Methylene Chloride	U		1.07	2.50	1	11/09/2019 15:11	WG1377928
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/09/2019 15:11	WG1377928
Methyl tert-butyl ether	U		0.102	0.500	1	11/09/2019 15:11	WG1377928
Naphthalene	0.306	J	0.174	2.50	1	11/09/2019 15:11	WG1377928
n-Propylbenzene	U		0.162	0.500	1	11/09/2019 15:11	WG1377928
Styrene	U		0.117	0.500	1	11/09/2019 15:11	WG1377928
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/09/2019 15:11	WG1377928
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/09/2019 15:11	WG1377928
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/09/2019 15:11	WG1377928
Tetrachloroethene	U		0.199	0.500	1	11/09/2019 15:11	WG1377928
Toluene	U		0.412	0.500	1	11/09/2019 15:11	WG1377928
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/09/2019 15:11	WG1377928
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/09/2019 15:11	WG1377928
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/09/2019 15:11	WG1377928
1,1,2-Trichloroethane	U		0.186	0.500	1	11/09/2019 15:11	WG1377928
Trichloroethene	U		0.153	0.500	1	11/09/2019 15:11	WG1377928
Trichlorofluoromethane	U		0.130	2.50	1	11/09/2019 15:11	WG1377928
1,2,3-Trichloropropane	U		0.247	2.50	1	11/09/2019 15:11	WG1377928
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/09/2019 15:11	WG1377928
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/09/2019 15:11	WG1377928
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/09/2019 15:11	WG1377928

JC 1/3/2020

MW-187-110119

Collected date/time: 11/01/19 09:10

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/09/2019 15:11	WG1377928
Vinyl chloride	2.80		0.118	0.500	1	11/09/2019 15:11	WG1377928
Xylenes, Total	U		0.316	1.50	1	11/09/2019 15:11	WG1377928
(S) Toluene-d8	*92.5*			*80.0-120*		*11/09/2019 15:11*	WG1377928
(S) Toluene-d8	*93.9*			*80.0-120*		*11/12/2019 19:53*	WG1378777
(S) 4-Bromofluorobenzene	*95.1*			*77.0-126*		*11/09/2019 15:11*	WG1377928
(S) 4-Bromofluorobenzene	*95.6*			*77.0-126*		*11/12/2019 19:53*	WG1378777
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*11/09/2019 15:11*	WG1377928
(S) 1,2-Dichloroethane-d4	*96.7*			*70.0-130*		*11/12/2019 19:53*	WG1378777

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 1/3/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	472000		2710	20000	1	11/07/2019 20:06	WG1376785

Sample Narrative:

L1156483-02 WG1376785: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	51700		51.9	1000	1	11/02/2019 17:33	WG1373953
Nitrate	U		22.7	100	1	11/02/2019 17:33	WG1373953
Sulfate	60600		77.4	5000	1	11/02/2019 17:33	WG1373953

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14800		102	1000	1	11/06/2019 07:06	WG1375433

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2860		15.0	100	1	11/06/2019 16:27	WG1375892
Manganese	380		0.250	5.00	1	11/06/2019 16:27	WG1375892

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/09/2019 01:52	WG1376401
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*11/09/2019 01:52*	WG1376401

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	7530		2.87	6.78	10	11/06/2019 16:51	WG1375796
Ethane	38.2		0.296	1.29	1	11/05/2019 16:43	WG1375047
Ethene	124		0.422	1.27	1	11/05/2019 16:43	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.84 U	~~J~~	1.05	25.0	1	11/12/2019 20:14	WG1378777
Acrylonitrile	U		0.873	5.00	1	11/09/2019 15:31	WG1377928
Benzene	0.141	J	0.0896	0.500	1	11/09/2019 15:31	WG1377928
Bromobenzene	U		0.133	0.500	1	11/09/2019 15:31	WG1377928
Bromodichloromethane	U		0.0800	0.500	1	11/09/2019 15:31	WG1377928
Bromochloromethane	U		0.145	0.500	1	11/09/2019 15:31	WG1377928
Bromoform	U		0.186	0.500	1	11/09/2019 15:31	WG1377928
Bromomethane	U UJ	J0	0.157	2.50	1	11/09/2019 15:31	WG1377928
n-Butylbenzene	U		0.143	0.500	1	11/09/2019 15:31	WG1377928
sec-Butylbenzene	U		0.134	0.500	1	11/09/2019 15:31	WG1377928
tert-Butylbenzene	U		0.183	0.500	1	11/09/2019 15:31	WG1377928
Carbon disulfide	U		0.101	0.500	1	11/09/2019 15:31	WG1377928
Carbon tetrachloride	U		0.159	0.500	1	11/09/2019 15:31	WG1377928

JC 1/3/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	11/09/2019 15:31	WG1377928
Chlorodibromomethane	U		0.128	0.500	1	11/09/2019 15:31	WG1377928
Chloroethane	U		0.141	2.50	1	11/09/2019 15:31	WG1377928
Chloroform	0.850		0.0860	0.500	1	11/09/2019 15:31	WG1377928
Chloromethane	U	UJ J0	0.153	1.25	1	11/09/2019 15:31	WG1377928
2-Chlorotoluene	U		0.111	0.500	1	11/09/2019 15:31	WG1377928
4-Chlorotoluene	U		0.0972	0.500	1	11/09/2019 15:31	WG1377928
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/09/2019 15:31	WG1377928
1,2-Dibromoethane	U		0.193	0.500	1	11/09/2019 15:31	WG1377928
Dibromomethane	U		0.117	0.500	1	11/09/2019 15:31	WG1377928
1,2-Dichlorobenzene	U		0.101	0.500	1	11/09/2019 15:31	WG1377928
1,3-Dichlorobenzene	U		0.130	0.500	1	11/09/2019 15:31	WG1377928
1,4-Dichlorobenzene	U		0.121	0.500	1	11/09/2019 15:31	WG1377928
Dichlorodifluoromethane	U	~~J4~~	0.127	2.50	1	11/09/2019 15:31	WG1377928
1,1-Dichloroethane	U		0.114	0.500	1	11/09/2019 15:31	WG1377928
1,2-Dichloroethane	U		0.108	0.500	1	11/09/2019 15:31	WG1377928
1,1-Dichloroethene	U		0.188	0.500	1	11/09/2019 15:31	WG1377928
cis-1,2-Dichloroethene	15.6		0.0933	0.500	1	11/09/2019 15:31	WG1377928
trans-1,2-Dichloroethene	2.31		0.152	0.500	1	11/09/2019 15:31	WG1377928
1,2-Dichloropropane	U		0.190	0.500	1	11/09/2019 15:31	WG1377928
1,1-Dichloropropene	U		0.128	0.500	1	11/09/2019 15:31	WG1377928
1,3-Dichloropropane	U		0.147	1.00	1	11/09/2019 15:31	WG1377928
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/09/2019 15:31	WG1377928
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/09/2019 15:31	WG1377928
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/09/2019 15:31	WG1377928
2,2-Dichloropropane	U		0.0929	0.500	1	11/09/2019 15:31	WG1377928
Di-isopropyl ether	U		0.0924	0.500	1	11/09/2019 15:31	WG1377928
Ethylbenzene	U		0.158	0.500	1	11/09/2019 15:31	WG1377928
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/09/2019 15:31	WG1377928
2-Hexanone	U		0.757	5.00	1	11/09/2019 15:31	WG1377928
n-Hexane	U		0.305	5.00	1	11/09/2019 15:31	WG1377928
Iodomethane	U	UJ J0	0.377	10.0	1	11/09/2019 15:31	WG1377928
Isopropylbenzene	U		0.126	0.500	1	11/09/2019 15:31	WG1377928
p-Isopropyltoluene	U		0.138	0.500	1	11/09/2019 15:31	WG1377928
2-Butanone (MEK)	U		1.28	5.00	1	11/09/2019 15:31	WG1377928
Methylene Chloride	U		1.07	2.50	1	11/09/2019 15:31	WG1377928
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/09/2019 15:31	WG1377928
Methyl tert-butyl ether	U		0.102	0.500	1	11/09/2019 15:31	WG1377928
Naphthalene	U		0.174	2.50	1	11/09/2019 15:31	WG1377928
n-Propylbenzene	U		0.162	0.500	1	11/09/2019 15:31	WG1377928
Styrene	U		0.117	0.500	1	11/09/2019 15:31	WG1377928
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/09/2019 15:31	WG1377928
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/09/2019 15:31	WG1377928
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/09/2019 15:31	WG1377928
Tetrachloroethene	0.704		0.199	0.500	1	11/09/2019 15:31	WG1377928
Toluene	U		0.412	0.500	1	11/09/2019 15:31	WG1377928
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/09/2019 15:31	WG1377928
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/09/2019 15:31	WG1377928
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/09/2019 15:31	WG1377928
1,1,2-Trichloroethane	U		0.186	0.500	1	11/09/2019 15:31	WG1377928
Trichloroethene	0.484	U ~~J~~	0.153	0.500	1	11/09/2019 15:31	WG1377928
Trichlorofluoromethane	U		0.130	2.50	1	11/09/2019 15:31	WG1377928
1,2,3-Trichloropropane	U		0.247	2.50	1	11/09/2019 15:31	WG1377928
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/09/2019 15:31	WG1377928
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/09/2019 15:31	WG1377928
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/09/2019 15:31	WG1377928

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/09/2019 15:31	WG1377928
Vinyl chloride	67.2		0.118	0.500	1	11/09/2019 15:31	WG1377928
Xylenes, Total	U		0.316	1.50	1	11/09/2019 15:31	WG1377928
(S) Toluene-d8	*93.8*			*80.0-120*		*11/09/2019 15:31*	WG1377928
(S) Toluene-d8	*98.3*			*80.0-120*		*11/12/2019 20:14*	WG1378777
(S) 4-Bromofluorobenzene	*96.4*			*77.0-126*		*11/09/2019 15:31*	WG1377928
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*11/12/2019 20:14*	WG1378777
(S) 1,2-Dichloroethane-d4	*93.8*			*70.0-130*		*11/09/2019 15:31*	WG1377928
(S) 1,2-Dichloroethane-d4	*90.4*			*70.0-130*		*11/12/2019 20:14*	WG1378777

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	593000		2710	20000	1	11/07/2019 20:23	WG1376785

Sample Narrative:

L1156483-03 WG1376785: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	99300		51.9	1000	1	11/02/2019 17:51	WG1373953
Nitrate	U		22.7	100	1	11/02/2019 17:51	WG1373953
Sulfate	17800		77.4	5000	1	11/02/2019 17:51	WG1373953

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	15300		102	1000	1	11/06/2019 07:27	WG1375433

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	9630		15.0	100	1	11/06/2019 16:30	WG1375892
Manganese	1730		0.250	5.00	1	11/06/2019 16:30	WG1375892

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/09/2019 02:16	WG1376401
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*11/09/2019 02:16*	WG1376401

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	21600		2.87	6.78	10	11/06/2019 15:33	WG1375796
Ethane	214		0.296	1.29	1	11/05/2019 16:48	WG1375047
Ethene	165		0.422	1.27	1	11/05/2019 16:48	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.56	U ~~J~~	1.05	25.0	1	11/12/2019 20:35	WG1378777
Acrylonitrile	U		0.873	5.00	1	11/09/2019 15:50	WG1377928
Benzene	U		0.0896	0.500	1	11/09/2019 15:50	WG1377928
Bromobenzene	U		0.133	0.500	1	11/09/2019 15:50	WG1377928
Bromodichloromethane	U		0.0800	0.500	1	11/09/2019 15:50	WG1377928
Bromochloromethane	U		0.145	0.500	1	11/09/2019 15:50	WG1377928
Bromoform	U		0.186	0.500	1	11/09/2019 15:50	WG1377928
Bromomethane	U	UJ J0	0.157	2.50	1	11/09/2019 15:50	WG1377928
n-Butylbenzene	U		0.143	0.500	1	11/09/2019 15:50	WG1377928
sec-Butylbenzene	U		0.134	0.500	1	11/09/2019 15:50	WG1377928
tert-Butylbenzene	U		0.183	0.500	1	11/09/2019 15:50	WG1377928
Carbon disulfide	U		0.101	0.500	1	11/09/2019 15:50	WG1377928
Carbon tetrachloride	U		0.159	0.500	1	11/09/2019 15:50	WG1377928

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Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	11/09/2019 15:50	WG1377928
Chlorodibromomethane	U		0.128	0.500	1	11/09/2019 15:50	WG1377928
Chloroethane	U		0.141	2.50	1	11/09/2019 15:50	WG1377928
Chloroform	1.28		0.0860	0.500	1	11/09/2019 15:50	WG1377928
Chloromethane	U	UJ J0	0.153	1.25	1	11/09/2019 15:50	WG1377928
2-Chlorotoluene	U		0.111	0.500	1	11/09/2019 15:50	WG1377928
4-Chlorotoluene	U		0.0972	0.500	1	11/09/2019 15:50	WG1377928
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/09/2019 15:50	WG1377928
1,2-Dibromoethane	U		0.193	0.500	1	11/09/2019 15:50	WG1377928
Dibromomethane	U		0.117	0.500	1	11/09/2019 15:50	WG1377928
1,2-Dichlorobenzene	U		0.101	0.500	1	11/09/2019 15:50	WG1377928
1,3-Dichlorobenzene	U		0.130	0.500	1	11/09/2019 15:50	WG1377928
1,4-Dichlorobenzene	U		0.121	0.500	1	11/09/2019 15:50	WG1377928
Dichlorodifluoromethane	U	~~J4~~	0.127	2.50	1	11/09/2019 15:50	WG1377928
1,1-Dichloroethane	U		0.114	0.500	1	11/09/2019 15:50	WG1377928
1,2-Dichloroethane	U		0.108	0.500	1	11/09/2019 15:50	WG1377928
1,1-Dichloroethene	U		0.188	0.500	1	11/09/2019 15:50	WG1377928
cis-1,2-Dichloroethene	0.286	U ~~J~~	0.0933	0.500	1	11/09/2019 15:50	WG1377928
trans-1,2-Dichloroethene	1.07		0.152	0.500	1	11/09/2019 15:50	WG1377928
1,2-Dichloropropane	U		0.190	0.500	1	11/09/2019 15:50	WG1377928
1,1-Dichloropropene	U		0.128	0.500	1	11/09/2019 15:50	WG1377928
1,3-Dichloropropane	U		0.147	1.00	1	11/09/2019 15:50	WG1377928
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/09/2019 15:50	WG1377928
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/09/2019 15:50	WG1377928
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/09/2019 15:50	WG1377928
2,2-Dichloropropane	U		0.0929	0.500	1	11/09/2019 15:50	WG1377928
Di-isopropyl ether	U		0.0924	0.500	1	11/09/2019 15:50	WG1377928
Ethylbenzene	U		0.158	0.500	1	11/09/2019 15:50	WG1377928
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/09/2019 15:50	WG1377928
2-Hexanone	U		0.757	5.00	1	11/09/2019 15:50	WG1377928
n-Hexane	U		0.305	5.00	1	11/09/2019 15:50	WG1377928
Iodomethane	U	UJ J0	0.377	10.0	1	11/09/2019 15:50	WG1377928
Isopropylbenzene	U		0.126	0.500	1	11/09/2019 15:50	WG1377928
p-Isopropyltoluene	U		0.138	0.500	1	11/09/2019 15:50	WG1377928
2-Butanone (MEK)	U		1.28	5.00	1	11/09/2019 15:50	WG1377928
Methylene Chloride	U		1.07	2.50	1	11/09/2019 15:50	WG1377928
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/09/2019 15:50	WG1377928
Methyl tert-butyl ether	U		0.102	0.500	1	11/09/2019 15:50	WG1377928
Naphthalene	U		0.174	2.50	1	11/09/2019 15:50	WG1377928
n-Propylbenzene	U		0.162	0.500	1	11/09/2019 15:50	WG1377928
Styrene	U		0.117	0.500	1	11/09/2019 15:50	WG1377928
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/09/2019 15:50	WG1377928
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/09/2019 15:50	WG1377928
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/09/2019 15:50	WG1377928
Tetrachloroethene	U		0.199	0.500	1	11/09/2019 15:50	WG1377928
Toluene	U		0.412	0.500	1	11/09/2019 15:50	WG1377928
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/09/2019 15:50	WG1377928
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/09/2019 15:50	WG1377928
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/09/2019 15:50	WG1377928
1,1,2-Trichloroethane	U		0.186	0.500	1	11/09/2019 15:50	WG1377928
Trichloroethene	U		0.153	0.500	1	11/09/2019 15:50	WG1377928
Trichlorofluoromethane	U		0.130	2.50	1	11/09/2019 15:50	WG1377928
1,2,3-Trichloropropane	U		0.247	2.50	1	11/09/2019 15:50	WG1377928
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/09/2019 15:50	WG1377928
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/09/2019 15:50	WG1377928
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/09/2019 15:50	WG1377928

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/09/2019 15:50	WG1377928
Vinyl chloride	6.85		0.118	0.500	1	11/09/2019 15:50	WG1377928
Xylenes, Total	U		0.316	1.50	1	11/09/2019 15:50	WG1377928
(S) Toluene-d8	*93.7*			*80.0-120*		*11/09/2019 15:50*	WG1377928
(S) Toluene-d8	*95.0*			*80.0-120*		*11/12/2019 20:35*	WG1378777
(S) 4-Bromofluorobenzene	*94.6*			*77.0-126*		*11/09/2019 15:50*	WG1377928
(S) 4-Bromofluorobenzene	*91.9*			*77.0-126*		*11/12/2019 20:35*	WG1378777
(S) 1,2-Dichloroethane-d4	*90.0*			*70.0-130*		*11/09/2019 15:50*	WG1377928
(S) 1,2-Dichloroethane-d4	*92.7*			*70.0-130*		*11/12/2019 20:35*	WG1378777

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Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	351000		2710	20000	1	11/07/2019 21:22	WG1376785

Sample Narrative:

L1156483-04 WG1376785: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	66300		51.9	1000	1	11/02/2019 18:26	WG1373953
Nitrate	U		22.7	100	1	11/02/2019 18:26	WG1373953
Sulfate	224000		387	25000	5	11/03/2019 23:01	WG1373953

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	32100		102	1000	1	11/06/2019 20:00	WG1376183

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	800		15.0	100	1	11/06/2019 16:33	WG1375892
Manganese	178		0.250	5.00	1	11/06/2019 16:33	WG1375892

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/09/2019 03:04	WG1376401
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*11/09/2019 03:04*	WG1376401

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1670		0.287	0.678	1	11/05/2019 16:59	WG1375047
Ethane	16.4		0.296	1.29	1	11/05/2019 16:59	WG1375047
Ethene	323		0.422	1.27	1	11/05/2019 16:59	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	12.5 U	~~J~~	10.5	250	10	11/12/2019 20:56	WG1378777
Acrylonitrile	U		0.873	5.00	1	11/09/2019 16:10	WG1377928
Benzene	U		0.0896	0.500	1	11/09/2019 16:10	WG1377928
Bromobenzene	U		0.133	0.500	1	11/09/2019 16:10	WG1377928
Bromodichloromethane	U		0.0800	0.500	1	11/09/2019 16:10	WG1377928
Bromochloromethane	U		0.145	0.500	1	11/09/2019 16:10	WG1377928
Bromoform	U		0.186	0.500	1	11/09/2019 16:10	WG1377928
Bromomethane	U UJ	J0	0.157	2.50	1	11/09/2019 16:10	WG1377928
n-Butylbenzene	U		0.143	0.500	1	11/09/2019 16:10	WG1377928
sec-Butylbenzene	U		0.134	0.500	1	11/09/2019 16:10	WG1377928
tert-Butylbenzene	U		0.183	0.500	1	11/09/2019 16:10	WG1377928
Carbon disulfide	0.573		0.101	0.500	1	11/09/2019 16:10	WG1377928
Carbon tetrachloride	U		0.159	0.500	1	11/09/2019 16:10	WG1377928

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/09/2019 16:10	WG1377928
Chlorodibromomethane	U		0.128	0.500	1	11/09/2019 16:10	WG1377928
Chloroethane	U		0.141	2.50	1	11/09/2019 16:10	WG1377928
Chloroform	0.810		0.0860	0.500	1	11/09/2019 16:10	WG1377928
Chloromethane	U	UJ J0	0.153	1.25	1	11/09/2019 16:10	WG1377928
2-Chlorotoluene	U		0.111	0.500	1	11/09/2019 16:10	WG1377928
4-Chlorotoluene	U		0.0972	0.500	1	11/09/2019 16:10	WG1377928
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/09/2019 16:10	WG1377928
1,2-Dibromoethane	U		0.193	0.500	1	11/09/2019 16:10	WG1377928
Dibromomethane	U		0.117	0.500	1	11/09/2019 16:10	WG1377928
1,2-Dichlorobenzene	U		0.101	0.500	1	11/09/2019 16:10	WG1377928
1,3-Dichlorobenzene	U		0.130	0.500	1	11/09/2019 16:10	WG1377928
1,4-Dichlorobenzene	U		0.121	0.500	1	11/09/2019 16:10	WG1377928
Dichlorodifluoromethane	U	~~J4~~	0.127	2.50	1	11/09/2019 16:10	WG1377928
1,1-Dichloroethane	U		0.114	0.500	1	11/09/2019 16:10	WG1377928
1,2-Dichloroethane	U		0.108	0.500	1	11/09/2019 16:10	WG1377928
1,1-Dichloroethene	0.661		0.188	0.500	1	11/09/2019 16:10	WG1377928
cis-1,2-Dichloroethene	258		0.933	5.00	10	11/12/2019 20:56	WG1378777
trans-1,2-Dichloroethene	6.03		0.152	0.500	1	11/09/2019 16:10	WG1377928
1,2-Dichloropropane	U		0.190	0.500	1	11/09/2019 16:10	WG1377928
1,1-Dichloropropene	U		0.128	0.500	1	11/09/2019 16:10	WG1377928
1,3-Dichloropropane	U		0.147	1.00	1	11/09/2019 16:10	WG1377928
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/09/2019 16:10	WG1377928
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/09/2019 16:10	WG1377928
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/09/2019 16:10	WG1377928
2,2-Dichloropropane	U		0.0929	0.500	1	11/09/2019 16:10	WG1377928
Di-isopropyl ether	U		0.0924	0.500	1	11/09/2019 16:10	WG1377928
Ethylbenzene	U		0.158	0.500	1	11/09/2019 16:10	WG1377928
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/09/2019 16:10	WG1377928
2-Hexanone	U		0.757	5.00	1	11/09/2019 16:10	WG1377928
n-Hexane	U		0.305	5.00	1	11/09/2019 16:10	WG1377928
Iodomethane	U	UJ J0	0.377	10.0	1	11/09/2019 16:10	WG1377928
Isopropylbenzene	U		0.126	0.500	1	11/09/2019 16:10	WG1377928
p-Isopropyltoluene	U		0.138	0.500	1	11/09/2019 16:10	WG1377928
2-Butanone (MEK)	U		1.28	5.00	1	11/09/2019 16:10	WG1377928
Methylene Chloride	U		1.07	2.50	1	11/09/2019 16:10	WG1377928
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/09/2019 16:10	WG1377928
Methyl tert-butyl ether	U		0.102	0.500	1	11/09/2019 16:10	WG1377928
Naphthalene	U		0.174	2.50	1	11/09/2019 16:10	WG1377928
n-Propylbenzene	U		0.162	0.500	1	11/09/2019 16:10	WG1377928
Styrene	U		0.117	0.500	1	11/09/2019 16:10	WG1377928
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/09/2019 16:10	WG1377928
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/09/2019 16:10	WG1377928
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/09/2019 16:10	WG1377928
Tetrachloroethene	1.25		0.199	0.500	1	11/09/2019 16:10	WG1377928
Toluene	0.671		0.412	0.500	1	11/09/2019 16:10	WG1377928
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/09/2019 16:10	WG1377928
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/09/2019 16:10	WG1377928
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/09/2019 16:10	WG1377928
1,1,2-Trichloroethane	U		0.186	0.500	1	11/09/2019 16:10	WG1377928
Trichloroethene	1.73		0.153	0.500	1	11/09/2019 16:10	WG1377928
Trichlorofluoromethane	U		0.130	2.50	1	11/09/2019 16:10	WG1377928
1,2,3-Trichloropropane	U		0.247	2.50	1	11/09/2019 16:10	WG1377928
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/09/2019 16:10	WG1377928
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/09/2019 16:10	WG1377928
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/09/2019 16:10	WG1377928

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/09/2019 16:10	WG1377928
Vinyl chloride	41.5		0.118	0.500	1	11/09/2019 16:10	WG1377928
Xylenes, Total	U		0.316	1.50	1	11/09/2019 16:10	WG1377928
(S) Toluene-d8	*92.9*			*80.0-120*		*11/09/2019 16:10*	WG1377928
(S) Toluene-d8	*94.8*			*80.0-120*		*11/12/2019 20:56*	WG1378777
(S) 4-Bromofluorobenzene	*93.4*			*77.0-126*		*11/09/2019 16:10*	WG1377928
(S) 4-Bromofluorobenzene	*94.8*			*77.0-126*		*11/12/2019 20:56*	WG1378777
(S) 1,2-Dichloroethane-d4	*94.8*			*70.0-130*		*11/09/2019 16:10*	WG1377928
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*		*11/12/2019 20:56*	WG1378777

JC 1/3/2020

MW-176-110119
Collected date/time: 11/01/19 13:30

SAMPLE RESULTS - 05

L1156483

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	358000		2710	20000	1	11/07/2019 21:30	WG1376785

Sample Narrative:

L1156483-05 WG1376785: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	12300		51.9	1000	1	11/02/2019 18:43	WG1373953
Nitrate	U		22.7	100	1	11/02/2019 18:43	WG1373953
Sulfate	15200		77.4	5000	1	11/02/2019 18:43	WG1373953

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1650	B	102	1000	1	11/06/2019 20:22	WG1376183

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	351		15.0	100	1	11/06/2019 16:37	WG1375892
Manganese	310		0.250	5.00	1	11/06/2019 16:37	WG1375892

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/09/2019 07:26	WG1376401
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*11/09/2019 07:26*	WG1376401

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	20.4		0.287	0.678	1	11/05/2019 17:01	WG1375047
Ethane	U		0.296	1.29	1	11/05/2019 17:01	WG1375047
Ethene	U		0.422	1.27	1	11/05/2019 17:01	WG1375047

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	11/12/2019 21:17	WG1378777
Acrylonitrile	U		0.873	5.00	1	11/09/2019 16:29	WG1377928
Benzene	U		0.0896	0.500	1	11/09/2019 16:29	WG1377928
Bromobenzene	U		0.133	0.500	1	11/09/2019 16:29	WG1377928
Bromodichloromethane	U		0.0800	0.500	1	11/09/2019 16:29	WG1377928
Bromochloromethane	U		0.145	0.500	1	11/09/2019 16:29	WG1377928
Bromoform	U		0.186	0.500	1	11/09/2019 16:29	WG1377928
Bromomethane	U UJ	J0	0.157	2.50	1	11/09/2019 16:29	WG1377928
n-Butylbenzene	U		0.143	0.500	1	11/09/2019 16:29	WG1377928
sec-Butylbenzene	U		0.134	0.500	1	11/09/2019 16:29	WG1377928
tert-Butylbenzene	U		0.183	0.500	1	11/09/2019 16:29	WG1377928
Carbon disulfide	0.195	J	0.101	0.500	1	11/09/2019 16:29	WG1377928
Carbon tetrachloride	U		0.159	0.500	1	11/09/2019 16:29	WG1377928

JC 1/3/2020

MW-176-110119
Collected date/time: 11/01/19 13:30

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	11/09/2019 16:29	WG1377928
Chlorodibromomethane	U		0.128	0.500	1	11/09/2019 16:29	WG1377928
Chloroethane	U		0.141	2.50	1	11/09/2019 16:29	WG1377928
Chloroform	U		0.0860	0.500	1	11/09/2019 16:29	WG1377928
Chloromethane	U	UJ J0	0.153	1.25	1	11/09/2019 16:29	WG1377928
2-Chlorotoluene	U		0.111	0.500	1	11/09/2019 16:29	WG1377928
4-Chlorotoluene	U		0.0972	0.500	1	11/09/2019 16:29	WG1377928
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/09/2019 16:29	WG1377928
1,2-Dibromoethane	U		0.193	0.500	1	11/09/2019 16:29	WG1377928
Dibromomethane	U		0.117	0.500	1	11/09/2019 16:29	WG1377928
1,2-Dichlorobenzene	U		0.101	0.500	1	11/09/2019 16:29	WG1377928
1,3-Dichlorobenzene	U		0.130	0.500	1	11/09/2019 16:29	WG1377928
1,4-Dichlorobenzene	U		0.121	0.500	1	11/09/2019 16:29	WG1377928
Dichlorodifluoromethane	U	~~J4~~	0.127	2.50	1	11/09/2019 16:29	WG1377928
1,1-Dichloroethane	U		0.114	0.500	1	11/09/2019 16:29	WG1377928
1,2-Dichloroethane	U		0.108	0.500	1	11/09/2019 16:29	WG1377928
1,1-Dichloroethene	U		0.188	0.500	1	11/09/2019 16:29	WG1377928
cis-1,2-Dichloroethene	U		0.0933	0.500	1	11/12/2019 21:17	WG1378777
trans-1,2-Dichloroethene	U		0.152	0.500	1	11/09/2019 16:29	WG1377928
1,2-Dichloropropane	U		0.190	0.500	1	11/09/2019 16:29	WG1377928
1,1-Dichloropropene	U		0.128	0.500	1	11/09/2019 16:29	WG1377928
1,3-Dichloropropane	U		0.147	1.00	1	11/09/2019 16:29	WG1377928
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/09/2019 16:29	WG1377928
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/09/2019 16:29	WG1377928
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/09/2019 16:29	WG1377928
2,2-Dichloropropane	U		0.0929	0.500	1	11/09/2019 16:29	WG1377928
Di-isopropyl ether	U		0.0924	0.500	1	11/09/2019 16:29	WG1377928
Ethylbenzene	U		0.158	0.500	1	11/09/2019 16:29	WG1377928
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/09/2019 16:29	WG1377928
2-Hexanone	U		0.757	5.00	1	11/09/2019 16:29	WG1377928
n-Hexane	U		0.305	5.00	1	11/09/2019 16:29	WG1377928
Iodomethane	U	UJ J0	0.377	10.0	1	11/09/2019 16:29	WG1377928
Isopropylbenzene	U		0.126	0.500	1	11/09/2019 16:29	WG1377928
p-Isopropyltoluene	U		0.138	0.500	1	11/09/2019 16:29	WG1377928
2-Butanone (MEK)	U		1.28	5.00	1	11/09/2019 16:29	WG1377928
Methylene Chloride	U		1.07	2.50	1	11/09/2019 16:29	WG1377928
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/09/2019 16:29	WG1377928
Methyl tert-butyl ether	U		0.102	0.500	1	11/09/2019 16:29	WG1377928
Naphthalene	U		0.174	2.50	1	11/09/2019 16:29	WG1377928
n-Propylbenzene	U		0.162	0.500	1	11/09/2019 16:29	WG1377928
Styrene	U		0.117	0.500	1	11/09/2019 16:29	WG1377928
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/09/2019 16:29	WG1377928
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/09/2019 16:29	WG1377928
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/09/2019 16:29	WG1377928
Tetrachloroethene	U		0.199	0.500	1	11/09/2019 16:29	WG1377928
Toluene	U		0.412	0.500	1	11/09/2019 16:29	WG1377928
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/09/2019 16:29	WG1377928
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/09/2019 16:29	WG1377928
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/09/2019 16:29	WG1377928
1,1,2-Trichloroethane	U		0.186	0.500	1	11/09/2019 16:29	WG1377928
Trichloroethene	U		0.153	0.500	1	11/09/2019 16:29	WG1377928
Trichlorofluoromethane	U		0.130	2.50	1	11/09/2019 16:29	WG1377928
1,2,3-Trichloropropane	U		0.247	2.50	1	11/09/2019 16:29	WG1377928
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/09/2019 16:29	WG1377928
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/09/2019 16:29	WG1377928
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/09/2019 16:29	WG1377928

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/09/2019 16:29	WG1377928
Vinyl chloride	U		0.118	0.500	1	11/09/2019 16:29	WG1377928
Xylenes, Total	U		0.316	1.50	1	11/09/2019 16:29	WG1377928
(S) Toluene-d8	*90.8*			*80.0-120*		*11/09/2019 16:29*	WG1377928
(S) Toluene-d8	*97.2*			*80.0-120*		*11/12/2019 21:17*	WG1378777
(S) 4-Bromofluorobenzene	*93.7*			*77.0-126*		*11/09/2019 16:29*	WG1377928
(S) 4-Bromofluorobenzene	*98.5*			*77.0-126*		*11/12/2019 21:17*	WG1378777
(S) 1,2-Dichloroethane-d4	*91.8*			*70.0-130*		*11/09/2019 16:29*	WG1377928
(S) 1,2-Dichloroethane-d4	*92.4*			*70.0-130*		*11/12/2019 21:17*	WG1378777

JC 1/3/2020

MW-165-110419
Collected date/time: 11/04/19 10:00

SAMPLE RESULTS - 01

L1157016

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	1060000		2710	20000	1	11/11/2019 19:16	WG1376842

Sample Narrative:

L1157016-01 WG1376842: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	51200		51.9	1000	1	11/05/2019 16:36	WG1375176
Nitrate	U		22.7	100	1	11/05/2019 16:36	WG1375176
Sulfate	57200		77.4	5000	1	11/05/2019 16:36	WG1375176

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	121000		510	5000	5	11/08/2019 11:35	WG1377288

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	60600		750	5000	50	11/11/2019 19:40	WG1376698
Manganese	5260		12.5	250	50	11/11/2019 19:40	WG1376698

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3940	J+	31.6	100	1	11/10/2019 11:06	WG1378063
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*11/10/2019 11:06*	WG1378063

JC 1/6/20

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	12000		2.87	6.78	10	11/08/2019 11:40	WG1377285
Ethane	370		0.296	1.29	1	11/07/2019 14:12	WG1376537
Ethene	151		0.422	1.27	1	11/07/2019 14:12	WG1376537

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	16.1	J	10.5	250	10	11/12/2019 14:59	WG1378635
Acrylonitrile	U		0.873	5.00	1	11/11/2019 01:29	WG1378382
Benzene	U		0.0896	0.500	1	11/11/2019 01:29	WG1378382
Bromobenzene	U		0.133	0.500	1	11/11/2019 01:29	WG1378382
Bromodichloromethane	U		0.0800	0.500	1	11/11/2019 01:29	WG1378382
Bromochloromethane	U		0.145	0.500	1	11/11/2019 01:29	WG1378382
Bromoform	U		0.186	0.500	1	11/11/2019 01:29	WG1378382
Bromomethane	U	UJ J0	0.157	2.50	1	11/11/2019 01:29	WG1378382
n-Butylbenzene	U		0.143	0.500	1	11/11/2019 01:29	WG1378382
sec-Butylbenzene	U		0.134	0.500	1	11/11/2019 01:29	WG1378382
tert-Butylbenzene	U		0.183	0.500	1	11/11/2019 01:29	WG1378382
Carbon disulfide	0.357	J	0.101	0.500	1	11/11/2019 01:29	WG1378382
Carbon tetrachloride	U		0.159	0.500	1	11/11/2019 01:29	WG1378382

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	11/11/2019 01:29	WG1378382
Chlorodibromomethane	U		0.128	0.500	1	11/11/2019 01:29	WG1378382
Chloroethane	0.723	J	0.141	2.50	1	11/11/2019 01:29	WG1378382
Chloroform	U		0.0860	0.500	1	11/11/2019 01:29	WG1378382
Chloromethane	U	UJ J0	0.153	1.25	1	11/11/2019 01:29	WG1378382
2-Chlorotoluene	U		0.111	0.500	1	11/11/2019 01:29	WG1378382
4-Chlorotoluene	U		0.0972	0.500	1	11/11/2019 01:29	WG1378382
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/11/2019 01:29	WG1378382
1,2-Dibromoethane	U		0.193	0.500	1	11/11/2019 01:29	WG1378382
Dibromomethane	U		0.117	0.500	1	11/11/2019 01:29	WG1378382
1,2-Dichlorobenzene	U		0.101	0.500	1	11/11/2019 01:29	WG1378382
1,3-Dichlorobenzene	U		0.130	0.500	1	11/11/2019 01:29	WG1378382
1,4-Dichlorobenzene	U		0.121	0.500	1	11/11/2019 01:29	WG1378382
Dichlorodifluoromethane	U		0.127	2.50	1	11/11/2019 01:29	WG1378382
1,1-Dichloroethane	U		0.114	0.500	1	11/11/2019 01:29	WG1378382
1,2-Dichloroethane	U		0.108	0.500	1	11/11/2019 01:29	WG1378382
1,1-Dichloroethene	8.92		0.188	0.500	1	11/11/2019 01:29	WG1378382
cis-1,2-Dichloroethene	4180		9.33	50.0	100	11/13/2019 08:19	WG1379454
trans-1,2-Dichloroethene	91.1		0.152	0.500	1	11/11/2019 01:29	WG1378382
1,2-Dichloropropane	U		0.190	0.500	1	11/11/2019 01:29	WG1378382
1,1-Dichloropropene	U		0.128	0.500	1	11/11/2019 01:29	WG1378382
1,3-Dichloropropane	U		0.147	1.00	1	11/11/2019 01:29	WG1378382
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/11/2019 01:29	WG1378382
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/11/2019 01:29	WG1378382
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/11/2019 01:29	WG1378382
2,2-Dichloropropane	U		0.0929	0.500	1	11/11/2019 01:29	WG1378382
Di-isopropyl ether	U		0.0924	0.500	1	11/11/2019 01:29	WG1378382
Ethylbenzene	U		0.158	0.500	1	11/11/2019 01:29	WG1378382
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/11/2019 01:29	WG1378382
2-Hexanone	U		0.757	5.00	1	11/11/2019 01:29	WG1378382
n-Hexane	U		0.305	5.00	1	11/11/2019 01:29	WG1378382
Iodomethane	U	UJ J0	0.377	10.0	1	11/11/2019 01:29	WG1378382
Isopropylbenzene	U		0.126	0.500	1	11/11/2019 01:29	WG1378382
p-Isopropyltoluene	U		0.138	0.500	1	11/11/2019 01:29	WG1378382
2-Butanone (MEK)	U		1.28	5.00	1	11/11/2019 01:29	WG1378382
Methylene Chloride	U		1.07	2.50	1	11/11/2019 01:29	WG1378382
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/11/2019 01:29	WG1378382
Methyl tert-butyl ether	U		0.102	0.500	1	11/11/2019 01:29	WG1378382
Naphthalene	U		0.174	2.50	1	11/11/2019 01:29	WG1378382
n-Propylbenzene	U		0.162	0.500	1	11/11/2019 01:29	WG1378382
Styrene	U		0.117	0.500	1	11/11/2019 01:29	WG1378382
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/11/2019 01:29	WG1378382
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/11/2019 01:29	WG1378382
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/11/2019 01:29	WG1378382
Tetrachloroethene	3.95		0.199	0.500	1	11/11/2019 01:29	WG1378382
Toluene	U		0.412	0.500	1	11/11/2019 01:29	WG1378382
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/11/2019 01:29	WG1378382
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/11/2019 01:29	WG1378382
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/11/2019 01:29	WG1378382
1,1,2-Trichloroethane	U		0.186	0.500	1	11/11/2019 01:29	WG1378382
Trichloroethene	20.2		0.153	0.500	1	11/11/2019 01:29	WG1378382
Trichlorofluoromethane	U		0.130	2.50	1	11/11/2019 01:29	WG1378382
1,2,3-Trichloropropane	U		0.247	2.50	1	11/11/2019 01:29	WG1378382
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/11/2019 01:29	WG1378382
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/11/2019 01:29	WG1378382
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/11/2019 01:29	WG1378382

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	11/11/2019 01:29	WG1378382
Vinyl chloride	642		1.18	5.00	10	11/12/2019 14:59	WG1378635
Xylenes, Total	U		0.316	1.50	1	11/11/2019 01:29	WG1378382
(S) Toluene-d8	*92.9*			*80.0-120*		*11/11/2019 01:29*	WG1378382
(S) Toluene-d8	*96.1*			*80.0-120*		*11/12/2019 14:59*	WG1378635
(S) Toluene-d8	*97.1*			*80.0-120*		*11/13/2019 08:19*	WG1379454
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*11/11/2019 01:29*	WG1378382
(S) 4-Bromofluorobenzene	*95.9*			*77.0-126*		*11/12/2019 14:59*	WG1378635
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*		*11/13/2019 08:19*	WG1379454
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*11/11/2019 01:29*	WG1378382
(S) 1,2-Dichloroethane-d4	*90.1*			*70.0-130*		*11/12/2019 14:59*	WG1378635
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*11/13/2019 08:19*	WG1379454

JC 1/3/2020

MW-166-110419

Collected date/time: 11/04/19 12:00

SAMPLE RESULTS - 02

L1157016

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	948000		2710	20000	1	11/11/2019 19:23	WG1376842

Sample Narrative:

L1157016-02 WG1376842: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	93800		260	5000	5	11/05/2019 17:11	WG1375176
Nitrate	U		22.7	100	1	11/05/2019 16:54	WG1375176
Sulfate	13600		77.4	5000	1	11/05/2019 16:54	WG1375176

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	122000		510	5000	5	11/08/2019 11:52	WG1377288

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	54500		750	5000	50	11/11/2019 19:43	WG1376698
Manganese	2110		12.5	250	50	11/11/2019 19:43	WG1376698

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	4360 J+		31.6	100	1	11/10/2019 11:30	WG1378063
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*11/10/2019 11:30*	WG1378063

JC 1/6/20

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	14300		2.87	6.78	10	11/08/2019 11:42	WG1377285
Ethane	67.6		0.296	1.29	1	11/07/2019 14:15	WG1376537
Ethene	2500		0.422	1.27	1	11/07/2019 14:15	WG1376537

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	46.4		1.05	25.0	1	11/11/2019 01:48	WG1378382
Acrylonitrile	U		0.873	5.00	1	11/11/2019 01:48	WG1378382
Benzene	U		0.0896	0.500	1	11/11/2019 01:48	WG1378382
Bromobenzene	U		0.133	0.500	1	11/11/2019 01:48	WG1378382
Bromodichloromethane	U		0.0800	0.500	1	11/11/2019 01:48	WG1378382
Bromochloromethane	U		0.145	0.500	1	11/11/2019 01:48	WG1378382
Bromoform	U		0.186	0.500	1	11/11/2019 01:48	WG1378382
Bromomethane	U UJ	J0	0.157	2.50	1	11/11/2019 01:48	WG1378382
n-Butylbenzene	U		0.143	0.500	1	11/11/2019 01:48	WG1378382
sec-Butylbenzene	U		0.134	0.500	1	11/11/2019 01:48	WG1378382
tert-Butylbenzene	U		0.183	0.500	1	11/11/2019 01:48	WG1378382
Carbon disulfide	1.41		0.101	0.500	1	11/11/2019 01:48	WG1378382
Carbon tetrachloride	U		0.159	0.500	1	11/11/2019 01:48	WG1378382

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/11/2019 01:48	WG1378382
Chlorodibromomethane	U		0.128	0.500	1	11/11/2019 01:48	WG1378382
Chloroethane	1.33	J	0.141	2.50	1	11/11/2019 01:48	WG1378382
Chloroform	0.278	J	0.0860	0.500	1	11/11/2019 01:48	WG1378382
Chloromethane	U	UJ J0	0.153	1.25	1	11/11/2019 01:48	WG1378382
2-Chlorotoluene	U		0.111	0.500	1	11/11/2019 01:48	WG1378382
4-Chlorotoluene	U		0.0972	0.500	1	11/11/2019 01:48	WG1378382
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/11/2019 01:48	WG1378382
1,2-Dibromoethane	U		0.193	0.500	1	11/11/2019 01:48	WG1378382
Dibromomethane	U		0.117	0.500	1	11/11/2019 01:48	WG1378382
1,2-Dichlorobenzene	U		0.101	0.500	1	11/11/2019 01:48	WG1378382
1,3-Dichlorobenzene	U		0.130	0.500	1	11/11/2019 01:48	WG1378382
1,4-Dichlorobenzene	U		0.121	0.500	1	11/11/2019 01:48	WG1378382
Dichlorodifluoromethane	U		0.127	2.50	1	11/11/2019 01:48	WG1378382
1,1-Dichloroethane	U		0.114	0.500	1	11/11/2019 01:48	WG1378382
1,2-Dichloroethane	U		0.108	0.500	1	11/11/2019 01:48	WG1378382
1,1-Dichloroethene	7.81		0.188	0.500	1	11/11/2019 01:48	WG1378382
cis-1,2-Dichloroethene	5130		4.67	25.0	50	11/12/2019 15:20	WG1378635
trans-1,2-Dichloroethene	47.0		0.152	0.500	1	11/11/2019 01:48	WG1378382
1,2-Dichloropropane	U		0.190	0.500	1	11/11/2019 01:48	WG1378382
1,1-Dichloropropene	U		0.128	0.500	1	11/11/2019 01:48	WG1378382
1,3-Dichloropropane	U		0.147	1.00	1	11/11/2019 01:48	WG1378382
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/11/2019 01:48	WG1378382
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/11/2019 01:48	WG1378382
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/11/2019 01:48	WG1378382
2,2-Dichloropropane	U		0.0929	0.500	1	11/11/2019 01:48	WG1378382
Di-isopropyl ether	U		0.0924	0.500	1	11/11/2019 01:48	WG1378382
Ethylbenzene	U		0.158	0.500	1	11/11/2019 01:48	WG1378382
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/11/2019 01:48	WG1378382
2-Hexanone	U		0.757	5.00	1	11/11/2019 01:48	WG1378382
n-Hexane	U		0.305	5.00	1	11/11/2019 01:48	WG1378382
Iodomethane	U	UJ J0	0.377	10.0	1	11/11/2019 01:48	WG1378382
Isopropylbenzene	U		0.126	0.500	1	11/11/2019 01:48	WG1378382
p-Isopropyltoluene	U		0.138	0.500	1	11/11/2019 01:48	WG1378382
2-Butanone (MEK)	19.6		1.28	5.00	1	11/11/2019 01:48	WG1378382
Methylene Chloride	U		1.07	2.50	1	11/11/2019 01:48	WG1378382
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/11/2019 01:48	WG1378382
Methyl tert-butyl ether	U		0.102	0.500	1	11/11/2019 01:48	WG1378382
Naphthalene	U		0.174	2.50	1	11/11/2019 01:48	WG1378382
n-Propylbenzene	U		0.162	0.500	1	11/11/2019 01:48	WG1378382
Styrene	U		0.117	0.500	1	11/11/2019 01:48	WG1378382
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/11/2019 01:48	WG1378382
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/11/2019 01:48	WG1378382
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/11/2019 01:48	WG1378382
Tetrachloroethene	U		0.199	0.500	1	11/11/2019 01:48	WG1378382
Toluene	0.526		0.412	0.500	1	11/11/2019 01:48	WG1378382
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/11/2019 01:48	WG1378382
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/11/2019 01:48	WG1378382
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/11/2019 01:48	WG1378382
1,1,2-Trichloroethane	U		0.186	0.500	1	11/11/2019 01:48	WG1378382
Trichloroethene	0.467	U ~~J~~	0.153	0.500	1	11/11/2019 01:48	WG1378382
Trichlorofluoromethane	U		0.130	2.50	1	11/11/2019 01:48	WG1378382
1,2,3-Trichloropropane	U		0.247	2.50	1	11/11/2019 01:48	WG1378382
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/11/2019 01:48	WG1378382
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/11/2019 01:48	WG1378382
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/11/2019 01:48	WG1378382

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	11/11/2019 01:48	WG1378382
Vinyl chloride	1420		5.90	25.0	50	11/12/2019 15:20	WG1378635
Xylenes, Total	U		0.316	1.50	1	11/11/2019 01:48	WG1378382
(S) Toluene-d8	*93.8*			*80.0-120*		*11/11/2019 01:48*	WG1378382
(S) Toluene-d8	*98.5*			*80.0-120*		*11/12/2019 15:20*	WG1378635
(S) 4-Bromofluorobenzene	*94.3*			*77.0-126*		*11/11/2019 01:48*	WG1378382
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*		*11/12/2019 15:20*	WG1378635
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*		*11/11/2019 01:48*	WG1378382
(S) 1,2-Dichloroethane-d4	*85.9*			*70.0-130*		*11/12/2019 15:20*	WG1378635

JC 1/3/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	347000		2710	20000	1	11/11/2019 19:30	WG1376842

Sample Narrative:

L1157016-03 WG1376842: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	38100		51.9	1000	1	11/05/2019 17:29	WG1375176
Nitrate	U		22.7	100	1	11/05/2019 17:29	WG1375176
Sulfate	61900		77.4	5000	1	11/05/2019 17:29	WG1375176

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	19600		102	1000	1	11/07/2019 07:09	WG1376183

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	849		15.0	100	1	11/11/2019 17:57	WG1376698
Manganese	345		0.250	5.00	1	11/11/2019 17:57	WG1376698

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/10/2019 11:54	WG1378063
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*11/10/2019 11:54*	WG1378063

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	8580		2.87	6.78	10	11/08/2019 11:46	WG1377285
Ethane	25.7		0.296	1.29	1	11/07/2019 14:18	WG1376537
Ethene	121		0.422	1.27	1	11/07/2019 14:18	WG1376537

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1120		5.25	125	5	11/12/2019 15:41	WG1378635
Acrylonitrile	U		0.873	5.00	1	11/11/2019 02:08	WG1378382
Benzene	U		0.0896	0.500	1	11/11/2019 02:08	WG1378382
Bromobenzene	U		0.133	0.500	1	11/11/2019 02:08	WG1378382
Bromodichloromethane	U		0.0800	0.500	1	11/11/2019 02:08	WG1378382
Bromochloromethane	U		0.145	0.500	1	11/11/2019 02:08	WG1378382
Bromoform	U		0.186	0.500	1	11/11/2019 02:08	WG1378382
Bromomethane	U	UJ J0	0.157	2.50	1	11/11/2019 02:08	WG1378382
n-Butylbenzene	U		0.143	0.500	1	11/11/2019 02:08	WG1378382
sec-Butylbenzene	U		0.134	0.500	1	11/11/2019 02:08	WG1378382
tert-Butylbenzene	U		0.183	0.500	1	11/11/2019 02:08	WG1378382
Carbon disulfide	1.15		0.101	0.500	1	11/11/2019 02:08	WG1378382
Carbon tetrachloride	U		0.159	0.500	1	11/11/2019 02:08	WG1378382

JC 1/3/2020

MW-167-110419
Collected date/time: 11/04/19 13:30

SAMPLE RESULTS - 03

L1157016

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/11/2019 02:08	WG1378382
Chlorodibromomethane	U		0.128	0.500	1	11/11/2019 02:08	WG1378382
Chloroethane	U		0.141	2.50	1	11/11/2019 02:08	WG1378382
Chloroform	0.131	J	0.0860	0.500	1	11/11/2019 02:08	WG1378382
Chloromethane	U	UJ J0	0.153	1.25	1	11/11/2019 02:08	WG1378382
2-Chlorotoluene	U		0.111	0.500	1	11/11/2019 02:08	WG1378382
4-Chlorotoluene	U		0.0972	0.500	1	11/11/2019 02:08	WG1378382
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/11/2019 02:08	WG1378382
1,2-Dibromoethane	U		0.193	0.500	1	11/11/2019 02:08	WG1378382
Dibromomethane	U		0.117	0.500	1	11/11/2019 02:08	WG1378382
1,2-Dichlorobenzene	U		0.101	0.500	1	11/11/2019 02:08	WG1378382
1,3-Dichlorobenzene	U		0.130	0.500	1	11/11/2019 02:08	WG1378382
1,4-Dichlorobenzene	U		0.121	0.500	1	11/11/2019 02:08	WG1378382
Dichlorodifluoromethane	U		0.127	2.50	1	11/11/2019 02:08	WG1378382
1,1-Dichloroethane	U		0.114	0.500	1	11/11/2019 02:08	WG1378382
1,2-Dichloroethane	U		0.108	0.500	1	11/11/2019 02:08	WG1378382
1,1-Dichloroethene	U		0.188	0.500	1	11/11/2019 02:08	WG1378382
cis-1,2-Dichloroethene	14.6		0.467	2.50	5	11/13/2019 07:37	WG1379454
trans-1,2-Dichloroethene	0.599		0.152	0.500	1	11/11/2019 02:08	WG1378382
1,2-Dichloropropane	U		0.190	0.500	1	11/11/2019 02:08	WG1378382
1,1-Dichloropropene	U		0.128	0.500	1	11/11/2019 02:08	WG1378382
1,3-Dichloropropane	U		0.147	1.00	1	11/11/2019 02:08	WG1378382
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/11/2019 02:08	WG1378382
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/11/2019 02:08	WG1378382
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/11/2019 02:08	WG1378382
2,2-Dichloropropane	U		0.0929	0.500	1	11/11/2019 02:08	WG1378382
Di-isopropyl ether	U		0.0924	0.500	1	11/11/2019 02:08	WG1378382
Ethylbenzene	U		0.158	0.500	1	11/11/2019 02:08	WG1378382
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/11/2019 02:08	WG1378382
2-Hexanone	U		0.757	5.00	1	11/11/2019 02:08	WG1378382
n-Hexane	U		0.305	5.00	1	11/11/2019 02:08	WG1378382
Iodomethane	U	UJ J0	0.377	10.0	1	11/11/2019 02:08	WG1378382
Isopropylbenzene	U		0.126	0.500	1	11/11/2019 02:08	WG1378382
p-Isopropyltoluene	U		0.138	0.500	1	11/11/2019 02:08	WG1378382
2-Butanone (MEK)	U		1.28	5.00	1	11/11/2019 02:08	WG1378382
Methylene Chloride	U		1.07	2.50	1	11/11/2019 02:08	WG1378382
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/11/2019 02:08	WG1378382
Methyl tert-butyl ether	U		0.102	0.500	1	11/11/2019 02:08	WG1378382
Naphthalene	U		0.174	2.50	1	11/11/2019 02:08	WG1378382
n-Propylbenzene	U		0.162	0.500	1	11/11/2019 02:08	WG1378382
Styrene	U		0.117	0.500	1	11/11/2019 02:08	WG1378382
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/11/2019 02:08	WG1378382
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/11/2019 02:08	WG1378382
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/11/2019 02:08	WG1378382
Tetrachloroethene	0.326	J	0.199	0.500	1	11/11/2019 02:08	WG1378382
Toluene	0.567		0.412	0.500	1	11/11/2019 02:08	WG1378382
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/11/2019 02:08	WG1378382
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/11/2019 02:08	WG1378382
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/11/2019 02:08	WG1378382
1,1,2-Trichloroethane	U		0.186	0.500	1	11/11/2019 02:08	WG1378382
Trichloroethene	0.297	U ~~J~~	0.153	0.500	1	11/11/2019 02:08	WG1378382
Trichlorofluoromethane	U		0.130	2.50	1	11/11/2019 02:08	WG1378382
1,2,3-Trichloropropane	U		0.247	2.50	1	11/11/2019 02:08	WG1378382
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/11/2019 02:08	WG1378382
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/11/2019 02:08	WG1378382
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/11/2019 02:08	WG1378382

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	11/11/2019 02:08	WG1378382
Vinyl chloride	17.3			0.590	2.50	5	11/12/2019 15:41	WG1378635
Xylenes, Total	U			0.316	1.50	1	11/11/2019 02:08	WG1378382
(S) Toluene-d8	*91.2*				*80.0-120*		*11/11/2019 02:08*	WG1378382
(S) Toluene-d8	*96.4*				*80.0-120*		*11/12/2019 15:41*	WG1378635
(S) Toluene-d8	*96.3*				*80.0-120*		*11/13/2019 07:37*	WG1379454
(S) 4-Bromofluorobenzene	*91.6*				*77.0-126*		*11/11/2019 02:08*	WG1378382
(S) 4-Bromofluorobenzene	*96.7*				*77.0-126*		*11/12/2019 15:41*	WG1378635
(S) 4-Bromofluorobenzene	*101*				*77.0-126*		*11/13/2019 07:37*	WG1379454
(S) 1,2-Dichloroethane-d4	*92.1*				*70.0-130*		*11/11/2019 02:08*	WG1378382
(S) 1,2-Dichloroethane-d4	*86.7*				*70.0-130*		*11/12/2019 15:41*	WG1378635
(S) 1,2-Dichloroethane-d4	*98.8*				*70.0-130*		*11/13/2019 07:37*	WG1379454

JC 1/3/2020

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	221000		2710	20000	1	11/11/2019 19:38	WG1376842

Sample Narrative:

L1157016-04 WG1376842: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	11800		51.9	1000	1	11/05/2019 17:46	WG1375176
Nitrate	U		22.7	100	1	11/05/2019 17:46	WG1375176
Sulfate	12100		77.4	5000	1	11/05/2019 17:46	WG1375176

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2440	~~B~~	102	1000	1	11/07/2019 10:19	WG1376376

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	378		15.0	100	1	11/11/2019 18:00	WG1376698
Manganese	254		0.250	5.00	1	11/11/2019 18:00	WG1376698

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	65.0	U B J	31.6	100	1	11/10/2019 17:31	WG1378064
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*11/10/2019 17:31*	WG1378064

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	11/07/2019 14:22	WG1376537
Ethane	U		0.296	1.29	1	11/07/2019 14:22	WG1376537
Ethene	U		0.422	1.27	1	11/07/2019 14:22	WG1376537

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.38	J	1.05	25.0	1	11/13/2019 18:51	WG1379440
Acrylonitrile	U		0.873	5.00	1	11/11/2019 02:28	WG1378382
Benzene	U		0.0896	0.500	1	11/11/2019 02:28	WG1378382
Bromobenzene	U		0.133	0.500	1	11/11/2019 02:28	WG1378382
Bromodichloromethane	U		0.0800	0.500	1	11/11/2019 02:28	WG1378382
Bromochloromethane	U		0.145	0.500	1	11/11/2019 02:28	WG1378382
Bromoform	U		0.186	0.500	1	11/11/2019 02:28	WG1378382
Bromomethane	U	UJ J0	0.157	2.50	1	11/11/2019 02:28	WG1378382
n-Butylbenzene	U		0.143	0.500	1	11/11/2019 02:28	WG1378382
sec-Butylbenzene	U		0.134	0.500	1	11/11/2019 02:28	WG1378382
tert-Butylbenzene	U		0.183	0.500	1	11/11/2019 02:28	WG1378382
Carbon disulfide	0.219	J	0.101	0.500	1	11/11/2019 02:28	WG1378382
Carbon tetrachloride	U		0.159	0.500	1	11/11/2019 02:28	WG1378382

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/11/2019 02:28	WG1378382
Chlorodibromomethane	U		0.128	0.500	1	11/11/2019 02:28	WG1378382
Chloroethane	U		0.141	2.50	1	11/11/2019 02:28	WG1378382
Chloroform	U		0.0860	0.500	1	11/11/2019 02:28	WG1378382
Chloromethane	U	UJ J0	0.153	1.25	1	11/11/2019 02:28	WG1378382
2-Chlorotoluene	U		0.111	0.500	1	11/11/2019 02:28	WG1378382
4-Chlorotoluene	U		0.0972	0.500	1	11/11/2019 02:28	WG1378382
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/11/2019 02:28	WG1378382
1,2-Dibromoethane	U		0.193	0.500	1	11/11/2019 02:28	WG1378382
Dibromomethane	U		0.117	0.500	1	11/11/2019 02:28	WG1378382
1,2-Dichlorobenzene	U		0.101	0.500	1	11/11/2019 02:28	WG1378382
1,3-Dichlorobenzene	U		0.130	0.500	1	11/11/2019 02:28	WG1378382
1,4-Dichlorobenzene	U		0.121	0.500	1	11/11/2019 02:28	WG1378382
Dichlorodifluoromethane	U		0.127	2.50	1	11/11/2019 02:28	WG1378382
1,1-Dichloroethane	U		0.114	0.500	1	11/11/2019 02:28	WG1378382
1,2-Dichloroethane	U		0.108	0.500	1	11/11/2019 02:28	WG1378382
1,1-Dichloroethene	U		0.188	0.500	1	11/11/2019 02:28	WG1378382
cis-1,2-Dichloroethene	U		0.0933	0.500	1	11/13/2019 18:51	WG1379440
trans-1,2-Dichloroethene	U		0.152	0.500	1	11/11/2019 02:28	WG1378382
1,2-Dichloropropane	U		0.190	0.500	1	11/11/2019 02:28	WG1378382
1,1-Dichloropropene	U		0.128	0.500	1	11/11/2019 02:28	WG1378382
1,3-Dichloropropane	U		0.147	1.00	1	11/11/2019 02:28	WG1378382
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/11/2019 02:28	WG1378382
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/11/2019 02:28	WG1378382
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/11/2019 02:28	WG1378382
2,2-Dichloropropane	U		0.0929	0.500	1	11/11/2019 02:28	WG1378382
Di-isopropyl ether	U		0.0924	0.500	1	11/11/2019 02:28	WG1378382
Ethylbenzene	U		0.158	0.500	1	11/11/2019 02:28	WG1378382
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/11/2019 02:28	WG1378382
2-Hexanone	U		0.757	5.00	1	11/11/2019 02:28	WG1378382
n-Hexane	U		0.305	5.00	1	11/11/2019 02:28	WG1378382
Iodomethane	U	UJ J0	0.377	10.0	1	11/11/2019 02:28	WG1378382
Isopropylbenzene	U		0.126	0.500	1	11/11/2019 02:28	WG1378382
p-Isopropyltoluene	U		0.138	0.500	1	11/11/2019 02:28	WG1378382
2-Butanone (MEK)	U		1.28	5.00	1	11/11/2019 02:28	WG1378382
Methylene Chloride	U		1.07	2.50	1	11/11/2019 02:28	WG1378382
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/11/2019 02:28	WG1378382
Methyl tert-butyl ether	U		0.102	0.500	1	11/11/2019 02:28	WG1378382
Naphthalene	U		0.174	2.50	1	11/11/2019 02:28	WG1378382
n-Propylbenzene	U		0.162	0.500	1	11/11/2019 02:28	WG1378382
Styrene	U		0.117	0.500	1	11/11/2019 02:28	WG1378382
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/11/2019 02:28	WG1378382
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/11/2019 02:28	WG1378382
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/11/2019 02:28	WG1378382
Tetrachloroethene	U		0.199	0.500	1	11/11/2019 02:28	WG1378382
Toluene	U		0.412	0.500	1	11/11/2019 02:28	WG1378382
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/11/2019 02:28	WG1378382
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/11/2019 02:28	WG1378382
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/11/2019 02:28	WG1378382
1,1,2-Trichloroethane	U		0.186	0.500	1	11/11/2019 02:28	WG1378382
Trichloroethene	U		0.153	0.500	1	11/11/2019 02:28	WG1378382
Trichlorofluoromethane	U		0.130	2.50	1	11/11/2019 02:28	WG1378382
1,2,3-Trichloropropane	U		0.247	2.50	1	11/11/2019 02:28	WG1378382
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/11/2019 02:28	WG1378382
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/11/2019 02:28	WG1378382
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/11/2019 02:28	WG1378382

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/11/2019 02:28	WG1378382
Vinyl chloride	U UJ	J0	0.118	0.500	1	11/11/2019 02:28	WG1378382
Xylenes, Total	U		0.316	1.50	1	11/11/2019 02:28	WG1378382
(S) Toluene-d8	*92.1*			*80.0-120*		*11/11/2019 02:28*	WG1378382
(S) Toluene-d8	*96.2*			*80.0-120*		*11/13/2019 18:51*	WG1379440
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*11/11/2019 02:28*	WG1378382
(S) 4-Bromofluorobenzene	*95.7*			*77.0-126*		*11/13/2019 18:51*	WG1379440
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*		*11/11/2019 02:28*	WG1378382
(S) 1,2-Dichloroethane-d4	*93.8*			*70.0-130*		*11/13/2019 18:51*	WG1379440

JC 1/3/2020

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	213000		2710	20000	1	11/12/2019 21:14	WG1378816

Sample Narrative:

L1157450-01 WG1378816: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	31000		51.9	1000	1	11/06/2019 18:48	WG1375905
Nitrate	U		22.7	100	1	11/06/2019 18:48	WG1375905
Sulfate	22100		77.4	5000	1	11/06/2019 18:48	WG1375905

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3310	~~B~~	102	1000	1	11/07/2019 21:19	WG1377120

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	131		15.0	100	1	11/08/2019 11:22	WG1376699
Manganese	392		0.250	5.00	1	11/08/2019 11:22	WG1376699

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	4960	J+	31.6	100	1	11/10/2019 17:54	WG1378064
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*11/10/2019 17:54*	WG1378064

JC 1/6/2020

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	18.1		0.287	0.678	1	11/07/2019 15:33	WG1376537
Ethane	U		0.296	1.29	1	11/07/2019 15:33	WG1376537
Ethene	U		0.422	1.27	1	11/07/2019 15:33	WG1376537

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.97	U ~~J~~	1.05	25.0	1	11/11/2019 02:47	WG1378382
Acrylonitrile	U		0.873	5.00	1	11/11/2019 02:47	WG1378382
Benzene	U		0.0896	0.500	1	11/11/2019 02:47	WG1378382
Bromobenzene	U		0.133	0.500	1	11/11/2019 02:47	WG1378382
Bromodichloromethane	U		0.0800	0.500	1	11/11/2019 02:47	WG1378382
Bromochloromethane	U		0.145	0.500	1	11/11/2019 02:47	WG1378382
Bromoform	U		0.186	0.500	1	11/11/2019 02:47	WG1378382
Bromomethane	U	UJ J0	0.157	2.50	1	11/11/2019 02:47	WG1378382
n-Butylbenzene	U		0.143	0.500	1	11/11/2019 02:47	WG1378382
sec-Butylbenzene	U		0.134	0.500	1	11/11/2019 02:47	WG1378382
tert-Butylbenzene	U		0.183	0.500	1	11/11/2019 02:47	WG1378382
Carbon disulfide	U		0.101	0.500	1	11/11/2019 02:47	WG1378382
Carbon tetrachloride	U		0.159	0.500	1	11/11/2019 02:47	WG1378382

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/11/2019 02:47	WG1378382
Chlorodibromomethane	U		0.128	0.500	1	11/11/2019 02:47	WG1378382
Chloroethane	U		0.141	2.50	1	11/11/2019 02:47	WG1378382
Chloroform	0.244	J	0.0860	0.500	1	11/11/2019 02:47	WG1378382
Chloromethane	U UJ	J0	0.153	1.25	1	11/11/2019 02:47	WG1378382
2-Chlorotoluene	U		0.111	0.500	1	11/11/2019 02:47	WG1378382
4-Chlorotoluene	U		0.0972	0.500	1	11/11/2019 02:47	WG1378382
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/11/2019 02:47	WG1378382
1,2-Dibromoethane	U		0.193	0.500	1	11/11/2019 02:47	WG1378382
Dibromomethane	U		0.117	0.500	1	11/11/2019 02:47	WG1378382
1,2-Dichlorobenzene	U		0.101	0.500	1	11/11/2019 02:47	WG1378382
1,3-Dichlorobenzene	U		0.130	0.500	1	11/11/2019 02:47	WG1378382
1,4-Dichlorobenzene	U		0.121	0.500	1	11/11/2019 02:47	WG1378382
Dichlorodifluoromethane	U		0.127	2.50	1	11/11/2019 02:47	WG1378382
1,1-Dichloroethane	0.305	J	0.114	0.500	1	11/11/2019 02:47	WG1378382
1,2-Dichloroethane	U		0.108	0.500	1	11/11/2019 02:47	WG1378382
1,1-Dichloroethene	32.0		0.188	0.500	1	11/11/2019 02:47	WG1378382
cis-1,2-Dichloroethene	643		9.33	50.0	100	11/12/2019 16:02	WG1378635
trans-1,2-Dichloroethene	22.8		0.152	0.500	1	11/11/2019 02:47	WG1378382
1,2-Dichloropropane	U		0.190	0.500	1	11/11/2019 02:47	WG1378382
1,1-Dichloropropene	U		0.128	0.500	1	11/11/2019 02:47	WG1378382
1,3-Dichloropropane	U		0.147	1.00	1	11/11/2019 02:47	WG1378382
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/11/2019 02:47	WG1378382
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/11/2019 02:47	WG1378382
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/11/2019 02:47	WG1378382
2,2-Dichloropropane	U		0.0929	0.500	1	11/11/2019 02:47	WG1378382
Di-isopropyl ether	U		0.0924	0.500	1	11/11/2019 02:47	WG1378382
Ethylbenzene	U		0.158	0.500	1	11/11/2019 02:47	WG1378382
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/11/2019 02:47	WG1378382
2-Hexanone	U		0.757	5.00	1	11/11/2019 02:47	WG1378382
n-Hexane	U		0.305	5.00	1	11/11/2019 02:47	WG1378382
Iodomethane	U UJ	J0	0.377	10.0	1	11/11/2019 02:47	WG1378382
Isopropylbenzene	U		0.126	0.500	1	11/11/2019 02:47	WG1378382
p-Isopropyltoluene	U		0.138	0.500	1	11/11/2019 02:47	WG1378382
2-Butanone (MEK)	U		1.28	5.00	1	11/11/2019 02:47	WG1378382
Methylene Chloride	U		1.07	2.50	1	11/11/2019 02:47	WG1378382
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/11/2019 02:47	WG1378382
Methyl tert-butyl ether	U		0.102	0.500	1	11/11/2019 02:47	WG1378382
Naphthalene	U		0.174	2.50	1	11/11/2019 02:47	WG1378382
n-Propylbenzene	U		0.162	0.500	1	11/11/2019 02:47	WG1378382
Styrene	U		0.117	0.500	1	11/11/2019 02:47	WG1378382
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/11/2019 02:47	WG1378382
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/11/2019 02:47	WG1378382
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/11/2019 02:47	WG1378382
Tetrachloroethene	8810		19.9	50.0	100	11/12/2019 16:02	WG1378635
Toluene	0.460	J	0.412	0.500	1	11/11/2019 02:47	WG1378382
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/11/2019 02:47	WG1378382
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/11/2019 02:47	WG1378382
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/11/2019 02:47	WG1378382
1,1,2-Trichloroethane	U		0.186	0.500	1	11/11/2019 02:47	WG1378382
Trichloroethene	3280		15.3	50.0	100	11/12/2019 16:02	WG1378635
Trichlorofluoromethane	U		0.130	2.50	1	11/11/2019 02:47	WG1378382
1,2,3-Trichloropropane	U		0.247	2.50	1	11/11/2019 02:47	WG1378382
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/11/2019 02:47	WG1378382
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/11/2019 02:47	WG1378382
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/11/2019 02:47	WG1378382

JC 1/3/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-172-110519
Collected date/time: 11/05/19 11:10

SAMPLE RESULTS - 01

L1157450

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ J0	0.645	5.00	1	11/11/2019 02:47	WG1378382
Vinyl chloride	2.64		0.118	0.500	1	11/11/2019 02:47	WG1378382
Xylenes, Total	U		0.316	1.50	1	11/11/2019 02:47	WG1378382
(S) Toluene-d8	*90.6*			*80.0-120*		*11/11/2019 02:47*	WG1378382
(S) Toluene-d8	*96.4*			*80.0-120*		*11/12/2019 16:02*	WG1378635
(S) 4-Bromofluorobenzene	*94.1*			*77.0-126*		*11/11/2019 02:47*	WG1378382
(S) 4-Bromofluorobenzene	*97.4*			*77.0-126*		*11/12/2019 16:02*	WG1378635
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*11/11/2019 02:47*	WG1378382
(S) 1,2-Dichloroethane-d4	*90.5*			*70.0-130*		*11/12/2019 16:02*	WG1378635

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

JC 1/3/2020

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	258000		2710	20000	1	11/12/2019 21:22	WG1378816

Sample Narrative:

L1157450-02 WG1378816: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	42100		51.9	1000	1	11/06/2019 19:23	WG1375905
Nitrate	93.6	J	22.7	100	1	11/06/2019 19:23	WG1375905
Sulfate	22000		77.4	5000	1	11/06/2019 19:23	WG1375905

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	10200		102	1000	1	11/07/2019 22:44	WG1377120

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3630		15.0	100	1	11/08/2019 11:25	WG1376699
Manganese	190		0.250	5.00	1	11/08/2019 11:25	WG1376699

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	371	J+ ~~B~~	31.6	100	1	11/10/2019 18:16	WG1378064
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*11/10/2019 18:16*	WG1378064

JC 1/6/2020

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	231		0.287	0.678	1	11/07/2019 15:40	WG1376537
Ethane	U		0.296	1.29	1	11/07/2019 15:40	WG1376537
Ethene	10.8		0.422	1.27	1	11/07/2019 15:40	WG1376537

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1130		10.5	250	10	11/12/2019 16:23	WG1378635
Acrylonitrile	U		0.873	5.00	1	11/11/2019 03:07	WG1378382
Benzene	U		0.0896	0.500	1	11/11/2019 03:07	WG1378382
Bromobenzene	U		0.133	0.500	1	11/11/2019 03:07	WG1378382
Bromodichloromethane	U		0.0800	0.500	1	11/11/2019 03:07	WG1378382
Bromochloromethane	U		0.145	0.500	1	11/11/2019 03:07	WG1378382
Bromoform	U		0.186	0.500	1	11/11/2019 03:07	WG1378382
Bromomethane	U	UJ J0	0.157	2.50	1	11/11/2019 03:07	WG1378382
n-Butylbenzene	U		0.143	0.500	1	11/11/2019 03:07	WG1378382
sec-Butylbenzene	U		0.134	0.500	1	11/11/2019 03:07	WG1378382
tert-Butylbenzene	U		0.183	0.500	1	11/11/2019 03:07	WG1378382
Carbon disulfide	0.332	J	0.101	0.500	1	11/11/2019 03:07	WG1378382
Carbon tetrachloride	U		0.159	0.500	1	11/11/2019 03:07	WG1378382

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/11/2019 03:07	WG1378382
Chlorodibromomethane	U		0.128	0.500	1	11/11/2019 03:07	WG1378382
Chloroethane	U		0.141	2.50	1	11/11/2019 03:07	WG1378382
Chloroform	U		0.0860	0.500	1	11/11/2019 03:07	WG1378382
Chloromethane	U UJ	J0	0.153	1.25	1	11/11/2019 03:07	WG1378382
2-Chlorotoluene	U		0.111	0.500	1	11/11/2019 03:07	WG1378382
4-Chlorotoluene	U		0.0972	0.500	1	11/11/2019 03:07	WG1378382
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/11/2019 03:07	WG1378382
1,2-Dibromoethane	U		0.193	0.500	1	11/11/2019 03:07	WG1378382
Dibromomethane	U		0.117	0.500	1	11/11/2019 03:07	WG1378382
1,2-Dichlorobenzene	U		0.101	0.500	1	11/11/2019 03:07	WG1378382
1,3-Dichlorobenzene	U		0.130	0.500	1	11/11/2019 03:07	WG1378382
1,4-Dichlorobenzene	U		0.121	0.500	1	11/11/2019 03:07	WG1378382
Dichlorodifluoromethane	U		0.127	2.50	1	11/11/2019 03:07	WG1378382
1,1-Dichloroethane	U		0.114	0.500	1	11/11/2019 03:07	WG1378382
1,2-Dichloroethane	U		0.108	0.500	1	11/11/2019 03:07	WG1378382
1,1-Dichloroethene	0.923		0.188	0.500	1	11/11/2019 03:07	WG1378382
cis-1,2-Dichloroethene	509		0.933	5.00	10	11/12/2019 16:23	WG1378635
trans-1,2-Dichloroethene	1.47		0.152	0.500	1	11/11/2019 03:07	WG1378382
1,2-Dichloropropane	U		0.190	0.500	1	11/11/2019 03:07	WG1378382
1,1-Dichloropropene	U		0.128	0.500	1	11/11/2019 03:07	WG1378382
1,3-Dichloropropane	U		0.147	1.00	1	11/11/2019 03:07	WG1378382
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/11/2019 03:07	WG1378382
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/11/2019 03:07	WG1378382
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/11/2019 03:07	WG1378382
2,2-Dichloropropane	U		0.0929	0.500	1	11/11/2019 03:07	WG1378382
Di-isopropyl ether	U		0.0924	0.500	1	11/11/2019 03:07	WG1378382
Ethylbenzene	U		0.158	0.500	1	11/11/2019 03:07	WG1378382
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/11/2019 03:07	WG1378382
2-Hexanone	U		0.757	5.00	1	11/11/2019 03:07	WG1378382
n-Hexane	U		0.305	5.00	1	11/11/2019 03:07	WG1378382
Iodomethane	U UJ	J0	0.377	10.0	1	11/11/2019 03:07	WG1378382
Isopropylbenzene	U		0.126	0.500	1	11/11/2019 03:07	WG1378382
p-Isopropyltoluene	U		0.138	0.500	1	11/11/2019 03:07	WG1378382
2-Butanone (MEK)	1.34	J	1.28	5.00	1	11/11/2019 03:07	WG1378382
Methylene Chloride	U		1.07	2.50	1	11/11/2019 03:07	WG1378382
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/11/2019 03:07	WG1378382
Methyl tert-butyl ether	U		0.102	0.500	1	11/11/2019 03:07	WG1378382
Naphthalene	U		0.174	2.50	1	11/11/2019 03:07	WG1378382
n-Propylbenzene	U		0.162	0.500	1	11/11/2019 03:07	WG1378382
Styrene	U		0.117	0.500	1	11/11/2019 03:07	WG1378382
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/11/2019 03:07	WG1378382
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/11/2019 03:07	WG1378382
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/11/2019 03:07	WG1378382
Tetrachloroethene	U		1.99	5.00	10	11/12/2019 16:23	WG1378635
Toluene	0.497	J	0.412	0.500	1	11/11/2019 03:07	WG1378382
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/11/2019 03:07	WG1378382
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/11/2019 03:07	WG1378382
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/11/2019 03:07	WG1378382
1,1,2-Trichloroethane	U		0.186	0.500	1	11/11/2019 03:07	WG1378382
Trichloroethene	U		1.53	5.00	10	11/12/2019 16:23	WG1378635
Trichlorofluoromethane	U		0.130	2.50	1	11/11/2019 03:07	WG1378382
1,2,3-Trichloropropane	U		0.247	2.50	1	11/11/2019 03:07	WG1378382
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/11/2019 03:07	WG1378382
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/11/2019 03:07	WG1378382
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/11/2019 03:07	WG1378382

JC 1/3/2020

MW-171-110519

Collected date/time: 11/05/19 12:40

SAMPLE RESULTS - 02

L1157450

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U UJ	J0	0.645	5.00	1	11/11/2019 03:07	WG1378382
Vinyl chloride	13.3		0.118	0.500	1	11/11/2019 03:07	WG1378382
Xylenes, Total	U		0.316	1.50	1	11/11/2019 03:07	WG1378382
(S) Toluene-d8	*93.0*			*80.0-120*		*11/11/2019 03:07*	WG1378382
(S) Toluene-d8	*97.3*			*80.0-120*		*11/12/2019 16:23*	WG1378635
(S) 4-Bromofluorobenzene	*95.8*			*77.0-126*		*11/11/2019 03:07*	WG1378382
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*11/12/2019 16:23*	WG1378635
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*		*11/11/2019 03:07*	WG1378382
(S) 1,2-Dichloroethane-d4	*90.9*			*70.0-130*		*11/12/2019 16:23*	WG1378635

Sample Narrative:

L1157450-02 WG1378635, WG1378382: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1157450-02 WG1378635, WG1378382: Not all compounds reportable at lower dilution.

JC 1/3/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	577000		2710	20000	1	11/12/2019 21:30	WG1378816

Sample Narrative:

L1157450-03 WG1378816: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	149000		260	5000	5	11/06/2019 20:16	WG1375905
Nitrate	U		22.7	100	1	11/06/2019 19:58	WG1375905
Sulfate	333	J	77.4	5000	1	11/06/2019 19:58	WG1375905

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	19900		102	1000	1	11/07/2019 23:38	WG1377120

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	6150		15.0	100	1	11/08/2019 11:29	WG1376699
Manganese	832		0.250	5.00	1	11/08/2019 11:29	WG1376699

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	83.4 U	~~B J~~	31.6	100	1	11/10/2019 18:39	WG1378064
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*11/10/2019 18:39*	WG1378064

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	19600		2.87	6.78	10	11/08/2019 13:04	WG1377285
Ethane	299		0.296	1.29	1	11/07/2019 15:56	WG1376537
Ethene	883		0.422	1.27	1	11/07/2019 15:56	WG1376537

Volatile Organic Compounds (GC/MS) by Method 8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	11.7 U	~~J~~	1.05	25.0	1	11/11/2019 03:26	WG1378382
Acrylonitrile	U		0.873	5.00	1	11/11/2019 03:26	WG1378382
Benzene	0.130	J	0.0896	0.500	1	11/11/2019 03:26	WG1378382
Bromobenzene	U		0.133	0.500	1	11/11/2019 03:26	WG1378382
Bromodichloromethane	U		0.0800	0.500	1	11/11/2019 03:26	WG1378382
Bromochloromethane	U		0.145	0.500	1	11/11/2019 03:26	WG1378382
Bromoform	U		0.186	0.500	1	11/11/2019 03:26	WG1378382
Bromomethane	U	UJ J0	0.157	2.50	1	11/11/2019 03:26	WG1378382
n-Butylbenzene	U		0.143	0.500	1	11/11/2019 03:26	WG1378382
sec-Butylbenzene	U		0.134	0.500	1	11/11/2019 03:26	WG1378382
tert-Butylbenzene	U		0.183	0.500	1	11/11/2019 03:26	WG1378382
Carbon disulfide	0.962		0.101	0.500	1	11/11/2019 03:26	WG1378382
Carbon tetrachloride	U		0.159	0.500	1	11/11/2019 03:26	WG1378382

JC 1/3/2020

MW-169-110519

Collected date/time: 11/05/19 14:00

SAMPLE RESULTS - 03

L1157450

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/11/2019 03:26	WG1378382
Chlorodibromomethane	U		0.128	0.500	1	11/11/2019 03:26	WG1378382
Chloroethane	U		0.141	2.50	1	11/11/2019 03:26	WG1378382
Chloroform	U		0.0860	0.500	1	11/11/2019 03:26	WG1378382
Chloromethane	U	UJ J0	0.153	1.25	1	11/11/2019 03:26	WG1378382
2-Chlorotoluene	U		0.111	0.500	1	11/11/2019 03:26	WG1378382
4-Chlorotoluene	U		0.0972	0.500	1	11/11/2019 03:26	WG1378382
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/11/2019 03:26	WG1378382
1,2-Dibromoethane	U		0.193	0.500	1	11/11/2019 03:26	WG1378382
Dibromomethane	U		0.117	0.500	1	11/11/2019 03:26	WG1378382
1,2-Dichlorobenzene	U		0.101	0.500	1	11/11/2019 03:26	WG1378382
1,3-Dichlorobenzene	U		0.130	0.500	1	11/11/2019 03:26	WG1378382
1,4-Dichlorobenzene	U		0.121	0.500	1	11/11/2019 03:26	WG1378382
Dichlorodifluoromethane	U		0.127	2.50	1	11/11/2019 03:26	WG1378382
1,1-Dichloroethane	U		0.114	0.500	1	11/11/2019 03:26	WG1378382
1,2-Dichloroethane	U		0.108	0.500	1	11/11/2019 03:26	WG1378382
1,1-Dichloroethene	0.197	J	0.188	0.500	1	11/11/2019 03:26	WG1378382
cis-1,2-Dichloroethene	48.8		0.0933	0.500	1	11/11/2019 03:26	WG1378382
trans-1,2-Dichloroethene	11.9		0.152	0.500	1	11/11/2019 03:26	WG1378382
1,2-Dichloropropane	U		0.190	0.500	1	11/11/2019 03:26	WG1378382
1,1-Dichloropropene	U		0.128	0.500	1	11/11/2019 03:26	WG1378382
1,3-Dichloropropane	U		0.147	1.00	1	11/11/2019 03:26	WG1378382
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/11/2019 03:26	WG1378382
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/11/2019 03:26	WG1378382
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/11/2019 03:26	WG1378382
2,2-Dichloropropane	U		0.0929	0.500	1	11/11/2019 03:26	WG1378382
Di-isopropyl ether	U		0.0924	0.500	1	11/11/2019 03:26	WG1378382
Ethylbenzene	U		0.158	0.500	1	11/11/2019 03:26	WG1378382
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/11/2019 03:26	WG1378382
2-Hexanone	U		0.757	5.00	1	11/11/2019 03:26	WG1378382
n-Hexane	U		0.305	5.00	1	11/11/2019 03:26	WG1378382
Iodomethane	U	UJ J0	0.377	10.0	1	11/11/2019 03:26	WG1378382
Isopropylbenzene	U		0.126	0.500	1	11/11/2019 03:26	WG1378382
p-Isopropyltoluene	U		0.138	0.500	1	11/11/2019 03:26	WG1378382
2-Butanone (MEK)	U		1.28	5.00	1	11/11/2019 03:26	WG1378382
Methylene Chloride	U		1.07	2.50	1	11/11/2019 03:26	WG1378382
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/11/2019 03:26	WG1378382
Methyl tert-butyl ether	U		0.102	0.500	1	11/11/2019 03:26	WG1378382
Naphthalene	U		0.174	2.50	1	11/11/2019 03:26	WG1378382
n-Propylbenzene	U		0.162	0.500	1	11/11/2019 03:26	WG1378382
Styrene	U		0.117	0.500	1	11/11/2019 03:26	WG1378382
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/11/2019 03:26	WG1378382
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/11/2019 03:26	WG1378382
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/11/2019 03:26	WG1378382
Tetrachloroethene	2.72		0.199	0.500	1	11/11/2019 03:26	WG1378382
Toluene	U		0.412	0.500	1	11/11/2019 03:26	WG1378382
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/11/2019 03:26	WG1378382
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/11/2019 03:26	WG1378382
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/11/2019 03:26	WG1378382
1,1,2-Trichloroethane	U		0.186	0.500	1	11/11/2019 03:26	WG1378382
Trichloroethene	1.15		0.153	0.500	1	11/11/2019 03:26	WG1378382
Trichlorofluoromethane	U		0.130	2.50	1	11/11/2019 03:26	WG1378382
1,2,3-Trichloropropane	U		0.247	2.50	1	11/11/2019 03:26	WG1378382
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/11/2019 03:26	WG1378382
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/11/2019 03:26	WG1378382
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/11/2019 03:26	WG1378382

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ	J0	0.645	5.00	1	11/11/2019 03:26	WG1378382
Vinyl chloride	1500			59.0	250	500	11/12/2019 16:44	WG1378635
Xylenes, Total	U			0.316	1.50	1	11/11/2019 03:26	WG1378382
(S) Toluene-d8	*93.3*				*80.0-120*		*11/11/2019 03:26*	WG1378382
(S) Toluene-d8	*100*				*80.0-120*		*11/12/2019 16:44*	WG1378635
(S) 4-Bromofluorobenzene	*93.6*				*77.0-126*		*11/11/2019 03:26*	WG1378382
(S) 4-Bromofluorobenzene	*95.7*				*77.0-126*		*11/12/2019 16:44*	WG1378635
(S) 1,2-Dichloroethane-d4	*96.2*				*70.0-130*		*11/11/2019 03:26*	WG1378382
(S) 1,2-Dichloroethane-d4	*92.9*				*70.0-130*		*11/12/2019 16:44*	WG1378635

JC 1/3/2020

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	506000		2710	20000	1	11/12/2019 21:38	WG1378816

Sample Narrative:

L1157450-04 WG1378816: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	178000		260	5000	5	11/06/2019 21:26	WG1375905
Nitrate	U		22.7	100	1	11/06/2019 20:33	WG1375905
Sulfate	112000		387	25000	5	11/06/2019 21:26	WG1375905

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	22900		102	1000	1	11/07/2019 23:56	WG1377120

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1870		15.0	100	1	11/08/2019 11:32	WG1376699
Manganese	947		0.250	5.00	1	11/08/2019 11:32	WG1376699

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	22700	J+	316	1000	10	11/14/2019 01:20	WG1380099
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*11/14/2019 01:20*	WG1380099

JC 1/6/2020

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	10000		2.87	6.78	10	11/08/2019 13:10	WG1377285
Ethane	62.0		0.296	1.29	1	11/07/2019 16:00	WG1376537
Ethene	1120		0.422	1.27	1	11/07/2019 16:00	WG1376537

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	8.46 U	~~J~~	1.05	25.0	1	11/11/2019 03:46	WG1378382
Acrylonitrile	U		0.873	5.00	1	11/11/2019 03:46	WG1378382
Benzene	0.269	J	0.0896	0.500	1	11/11/2019 03:46	WG1378382
Bromobenzene	U		0.133	0.500	1	11/11/2019 03:46	WG1378382
Bromodichloromethane	U		0.0800	0.500	1	11/11/2019 03:46	WG1378382
Bromochloromethane	U		0.145	0.500	1	11/11/2019 03:46	WG1378382
Bromoform	U		0.186	0.500	1	11/11/2019 03:46	WG1378382
Bromomethane	U	UJ J0	0.157	2.50	1	11/11/2019 03:46	WG1378382
n-Butylbenzene	U		0.143	0.500	1	11/11/2019 03:46	WG1378382
sec-Butylbenzene	U		0.134	0.500	1	11/11/2019 03:46	WG1378382
tert-Butylbenzene	U		0.183	0.500	1	11/11/2019 03:46	WG1378382
Carbon disulfide	U		0.101	0.500	1	11/11/2019 03:46	WG1378382
Carbon tetrachloride	U		0.159	0.500	1	11/11/2019 03:46	WG1378382

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/11/2019 03:46	WG1378382
Chlorodibromomethane	U		0.128	0.500	1	11/11/2019 03:46	WG1378382
Chloroethane	U		0.141	2.50	1	11/11/2019 03:46	WG1378382
Chloroform	U		0.0860	0.500	1	11/11/2019 03:46	WG1378382
Chloromethane	U	UJ J0	0.153	1.25	1	11/11/2019 03:46	WG1378382
2-Chlorotoluene	U		0.111	0.500	1	11/11/2019 03:46	WG1378382
4-Chlorotoluene	U		0.0972	0.500	1	11/11/2019 03:46	WG1378382
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/11/2019 03:46	WG1378382
1,2-Dibromoethane	U		0.193	0.500	1	11/11/2019 03:46	WG1378382
Dibromomethane	U		0.117	0.500	1	11/11/2019 03:46	WG1378382
1,2-Dichlorobenzene	U		0.101	0.500	1	11/11/2019 03:46	WG1378382
1,3-Dichlorobenzene	U		0.130	0.500	1	11/11/2019 03:46	WG1378382
1,4-Dichlorobenzene	U		0.121	0.500	1	11/11/2019 03:46	WG1378382
Dichlorodifluoromethane	U		0.127	2.50	1	11/11/2019 03:46	WG1378382
1,1-Dichloroethane	U		0.114	0.500	1	11/11/2019 03:46	WG1378382
1,2-Dichloroethane	U		0.108	0.500	1	11/11/2019 03:46	WG1378382
1,1-Dichloroethene	73.1		0.188	0.500	1	11/11/2019 03:46	WG1378382
cis-1,2-Dichloroethene	27600		18.7	100	200	11/12/2019 17:05	WG1378635
trans-1,2-Dichloroethene	172		30.4	100	200	11/12/2019 17:05	WG1378635
1,2-Dichloropropane	U		0.190	0.500	1	11/11/2019 03:46	WG1378382
1,1-Dichloropropene	U		0.128	0.500	1	11/11/2019 03:46	WG1378382
1,3-Dichloropropane	U		0.147	1.00	1	11/11/2019 03:46	WG1378382
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/11/2019 03:46	WG1378382
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/11/2019 03:46	WG1378382
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/11/2019 03:46	WG1378382
2,2-Dichloropropane	U		0.0929	0.500	1	11/11/2019 03:46	WG1378382
Di-isopropyl ether	U		0.0924	0.500	1	11/11/2019 03:46	WG1378382
Ethylbenzene	U		0.158	0.500	1	11/11/2019 03:46	WG1378382
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/11/2019 03:46	WG1378382
2-Hexanone	U		0.757	5.00	1	11/11/2019 03:46	WG1378382
n-Hexane	U		0.305	5.00	1	11/11/2019 03:46	WG1378382
Iodomethane	U	UJ J0	0.377	10.0	1	11/11/2019 03:46	WG1378382
Isopropylbenzene	U		0.126	0.500	1	11/11/2019 03:46	WG1378382
p-Isopropyltoluene	U		0.138	0.500	1	11/11/2019 03:46	WG1378382
2-Butanone (MEK)	U		1.28	5.00	1	11/11/2019 03:46	WG1378382
Methylene Chloride	U		1.07	2.50	1	11/11/2019 03:46	WG1378382
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/11/2019 03:46	WG1378382
Methyl tert-butyl ether	U		0.102	0.500	1	11/11/2019 03:46	WG1378382
Naphthalene	U		0.174	2.50	1	11/11/2019 03:46	WG1378382
n-Propylbenzene	U		0.162	0.500	1	11/11/2019 03:46	WG1378382
Styrene	U		0.117	0.500	1	11/11/2019 03:46	WG1378382
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/11/2019 03:46	WG1378382
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/11/2019 03:46	WG1378382
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/11/2019 03:46	WG1378382
Tetrachloroethene	105		0.199	0.500	1	11/11/2019 03:46	WG1378382
Toluene	0.916		0.412	0.500	1	11/11/2019 03:46	WG1378382
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/11/2019 03:46	WG1378382
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/11/2019 03:46	WG1378382
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/11/2019 03:46	WG1378382
1,1,2-Trichloroethane	U		0.186	0.500	1	11/11/2019 03:46	WG1378382
Trichloroethene	125		0.153	0.500	1	11/11/2019 03:46	WG1378382
Trichlorofluoromethane	U		0.130	2.50	1	11/11/2019 03:46	WG1378382
1,2,3-Trichloropropane	U		0.247	2.50	1	11/11/2019 03:46	WG1378382
1,2,4-Trimethylbenzene	0.437	J	0.123	0.500	1	11/11/2019 03:46	WG1378382
1,2,3-Trimethylbenzene	0.315	J	0.0739	0.500	1	11/11/2019 03:46	WG1378382
1,3,5-Trimethylbenzene	0.154	J	0.124	0.500	1	11/11/2019 03:46	WG1378382

JC 1/3/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U UJ	J0	0.645	5.00	1	11/11/2019 03:46	WG1378382
Vinyl chloride	6710		23.6	100	200	11/12/2019 17:05	WG1378635
Xylenes, Total	0.796	J	0.316	1.50	1	11/11/2019 03:46	WG1378382
(S) Toluene-d8	*93.5*			*80.0-120*		*11/11/2019 03:46*	WG1378382
(S) Toluene-d8	*94.9*			*80.0-120*		*11/12/2019 17:05*	WG1378635
(S) 4-Bromofluorobenzene	*94.6*			*77.0-126*		*11/11/2019 03:46*	WG1378382
(S) 4-Bromofluorobenzene	*93.8*			*77.0-126*		*11/12/2019 17:05*	WG1378635
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*11/11/2019 03:46*	WG1378382
(S) 1,2-Dichloroethane-d4	*89.8*			*70.0-130*		*11/12/2019 17:05*	WG1378635

JC 1/3/2020

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	582000		2710	20000	1	11/14/2019 01:30	WG1379400

Sample Narrative:

L1158133-01 WG1379400: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	276000		519	10000	10	11/08/2019 06:19	WG1376738
Nitrate	U		22.7	100	1	11/08/2019 06:01	WG1376738
Sulfate	96200		77.4	5000	1	11/08/2019 06:01	WG1376738

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	56300		102	1000	1	11/10/2019 02:03	WG1378047

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	32200		300	2000	20	11/11/2019 19:18	WG1377945
Manganese	4130		5.00	100	20	11/11/2019 19:18	WG1377945

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	127000	J+	3160	10000	100	11/14/2019 07:55	WG1380099
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*11/14/2019 07:55*	WG1380099

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	20800		2.87	6.78	10	11/12/2019 13:33	WG1378754
Ethane	17.8		0.296	1.29	1	11/11/2019 14:07	WG1378445
Ethene	3730		0.422	1.27	1	11/11/2019 14:07	WG1378445

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	14.1 U	~~J~~	1.05	25.0	1	11/15/2019 23:48	WG1381516
Acrylonitrile	U		0.873	5.00	1	11/15/2019 23:48	WG1381516
Benzene	0.721		0.0896	0.500	1	11/15/2019 23:48	WG1381516
Bromobenzene	U		0.133	0.500	1	11/15/2019 23:48	WG1381516
Bromodichloromethane	U		0.0800	0.500	1	11/15/2019 23:48	WG1381516
Bromochloromethane	U		0.145	0.500	1	11/15/2019 23:48	WG1381516
Bromoform	U		0.186	0.500	1	11/15/2019 23:48	WG1381516
Bromomethane	U		157	2500	1000	11/19/2019 13:40	WG1382748
n-Butylbenzene	U		0.143	0.500	1	11/15/2019 23:48	WG1381516
sec-Butylbenzene	0.161	J	0.134	0.500	1	11/15/2019 23:48	WG1381516
tert-Butylbenzene	U		0.183	0.500	1	11/15/2019 23:48	WG1381516
Carbon disulfide	27.8	J	0.101	0.500	1	11/15/2019 23:48	WG1381516
Carbon tetrachloride	U		0.159	0.500	1	11/15/2019 23:48	WG1381516

JC 1/6/2020

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	11/15/2019 23:48	WG1381516	
Chlorodibromomethane	U		0.128	0.500	1	11/15/2019 23:48	WG1381516	
Chloroethane	6.29 J		0.141	2.50	1	11/15/2019 23:48	WG1381516	JC 1/6/2020
Chloroform	U		0.0860	0.500	1	11/15/2019 23:48	WG1381516	
Chloromethane	U		0.153	1.25	1	11/15/2019 23:48	WG1381516	
2-Chlorotoluene	U		0.111	0.500	1	11/15/2019 23:48	WG1381516	
4-Chlorotoluene	U		0.0972	0.500	1	11/15/2019 23:48	WG1381516	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/15/2019 23:48	WG1381516	
1,2-Dibromoethane	U		0.193	0.500	1	11/15/2019 23:48	WG1381516	
Dibromomethane	U		0.117	0.500	1	11/15/2019 23:48	WG1381516	
1,2-Dichlorobenzene	U		0.101	0.500	1	11/15/2019 23:48	WG1381516	
1,3-Dichlorobenzene	U		0.130	0.500	1	11/15/2019 23:48	WG1381516	
1,4-Dichlorobenzene	U		0.121	0.500	1	11/15/2019 23:48	WG1381516	
Dichlorodifluoromethane	U		0.127	2.50	1	11/15/2019 23:48	WG1381516	
1,1-Dichloroethane	U		0.114	0.500	1	11/15/2019 23:48	WG1381516	
1,2-Dichloroethane	U		0.108	0.500	1	11/15/2019 23:48	WG1381516	
1,1-Dichloroethene	258 J	E	0.188	0.500	1	11/15/2019 23:48	WG1381516	
cis-1,2-Dichloroethene	93100 J		93.3	500	1000	11/19/2019 13:40	WG1382748	JC 1/6/2020
trans-1,2-Dichloroethene	200	J	152	500	1000	11/19/2019 13:40	WG1382748	
1,2-Dichloropropane	U		0.190	0.500	1	11/15/2019 23:48	WG1381516	
1,1-Dichloropropene	U		0.128	0.500	1	11/15/2019 23:48	WG1381516	
1,3-Dichloropropane	U		0.147	1.00	1	11/15/2019 23:48	WG1381516	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/15/2019 23:48	WG1381516	
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/15/2019 23:48	WG1381516	
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	11/15/2019 23:48	WG1381516	
2,2-Dichloropropane	U		0.0929	0.500	1	11/15/2019 23:48	WG1381516	
Di-isopropyl ether	U		0.0924	0.500	1	11/15/2019 23:48	WG1381516	
Ethylbenzene	0.510		0.158	0.500	1	11/15/2019 23:48	WG1381516	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/15/2019 23:48	WG1381516	
2-Hexanone	U		0.757	5.00	1	11/15/2019 23:48	WG1381516	
n-Hexane	U		0.305	5.00	1	11/15/2019 23:48	WG1381516	
Iodomethane	U UJ	J0	0.377	10.0	1	11/15/2019 23:48	WG1381516	
Isopropylbenzene	0.180	J	0.126	0.500	1	11/15/2019 23:48	WG1381516	
p-Isopropyltoluene	U		0.138	0.500	1	11/15/2019 23:48	WG1381516	
2-Butanone (MEK)	9.49		1.28	5.00	1	11/15/2019 23:48	WG1381516	
Methylene Chloride	U		1.07	2.50	1	11/15/2019 23:48	WG1381516	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/15/2019 23:48	WG1381516	
Methyl tert-butyl ether	U		0.102	0.500	1	11/15/2019 23:48	WG1381516	
Naphthalene	0.677	J	0.174	2.50	1	11/15/2019 23:48	WG1381516	
n-Propylbenzene	0.558		0.162	0.500	1	11/15/2019 23:48	WG1381516	
Styrene	U		0.117	0.500	1	11/15/2019 23:48	WG1381516	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/15/2019 23:48	WG1381516	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/15/2019 23:48	WG1381516	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/15/2019 23:48	WG1381516	
Tetrachloroethene	1910 J		199	500	1000	11/19/2019 13:40	WG1382748	
Toluene	4.14		0.412	0.500	1	11/15/2019 23:48	WG1381516	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/15/2019 23:48	WG1381516	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/15/2019 23:48	WG1381516	
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/15/2019 23:48	WG1381516	
1,1,2-Trichloroethane	U		0.186	0.500	1	11/15/2019 23:48	WG1381516	
Trichloroethene	1120 J		153	500	1000	11/19/2019 13:40	WG1382748	
Trichlorofluoromethane	U		0.130	2.50	1	11/15/2019 23:48	WG1381516	
1,2,3-Trichloropropane	U UJ	J0	247	2500	1000	11/19/2019 13:40	WG1382748	
1,2,4-Trimethylbenzene	3.88		0.123	0.500	1	11/15/2019 23:48	WG1381516	
1,2,3-Trimethylbenzene	1.88		0.0739	0.500	1	11/15/2019 23:48	WG1381516	JC 1/3/2020
1,3,5-Trimethylbenzene	1.24		0.124	0.500	1	11/15/2019 23:48	WG1381516	

MW-920-110619

Collected date/time: 11/06/19 09:00

SAMPLE RESULTS - 01

L1158133

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/15/2019 23:48	WG1381516
Vinyl chloride	5470	J	118	500	1000	11/19/2019 13:40	WG1382748
Xylenes, Total	2.76		0.316	1.50	1	11/15/2019 23:48	WG1381516
(S) Toluene-d8	*94.7*			*80.0-120*		*11/15/2019 23:48*	WG1381516
(S) Toluene-d8	*112*			*80.0-120*		*11/19/2019 13:40*	WG1382748
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*11/15/2019 23:48*	WG1381516
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*11/19/2019 13:40*	WG1382748
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/15/2019 23:48*	WG1381516
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/19/2019 13:40*	WG1382748

Sample Narrative:

L1158133-01 WG1381516, WG1382748: Not all compounds reportable at lower dilution.

L1158133-01 WG1381516, WG1382748: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

JC 1/6/2020

JC 1/3/2020

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	940000		2710	20000	1	11/14/2019 01:37	WG1379400

Sample Narrative:

L1158133-02 WG1379400: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	50800		51.9	1000	1	11/07/2019 22:25	WG1376795
Nitrate	U		22.7	100	1	11/07/2019 22:25	WG1376795
Sulfate	86800		77.4	5000	1	11/07/2019 22:25	WG1376795

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	193000		510	5000	5	11/10/2019 02:23	WG1378047

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	17700		15.0	100	1	11/10/2019 21:18	WG1377945
Manganese	15700		0.250	5.00	1	11/10/2019 21:18	WG1377945

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	220 J+		31.6	100	1	11/14/2019 08:50	WG1380099
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*11/14/2019 08:50*	WG1380099

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	6310		0.287	0.678	1	11/11/2019 14:11	WG1378445
Ethane	U		0.296	1.29	1	11/11/2019 14:11	WG1378445
Ethene	49.2		0.422	1.27	1	11/11/2019 14:11	WG1378445

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	12.0 U	~~J~~	1.05	25.0	1	11/16/2019 00:08	WG1381516
Acrylonitrile	U		0.873	5.00	1	11/16/2019 00:08	WG1381516
Benzene	U		0.0896	0.500	1	11/16/2019 00:08	WG1381516
Bromobenzene	U		0.133	0.500	1	11/16/2019 00:08	WG1381516
Bromodichloromethane	U		0.0800	0.500	1	11/16/2019 00:08	WG1381516
Bromochloromethane	U		0.145	0.500	1	11/16/2019 00:08	WG1381516
Bromoform	U		0.186	0.500	1	11/16/2019 00:08	WG1381516
Bromomethane	U		0.785	12.5	5	11/19/2019 14:00	WG1382748
n-Butylbenzene	U		0.143	0.500	1	11/16/2019 00:08	WG1381516
sec-Butylbenzene	U		0.134	0.500	1	11/16/2019 00:08	WG1381516
tert-Butylbenzene	U		0.183	0.500	1	11/16/2019 00:08	WG1381516
Carbon disulfide	3.81		0.101	0.500	1	11/16/2019 00:08	WG1381516
Carbon tetrachloride	U		0.159	0.500	1	11/16/2019 00:08	WG1381516

JC 1/3/2020

MW-180-110619
Collected date/time: 11/06/19 10:00

SAMPLE RESULTS - 02

L1158133

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/16/2019 00:08	WG1381516
Chlorodibromomethane	U		0.128	0.500	1	11/16/2019 00:08	WG1381516
Chloroethane	U		0.141	2.50	1	11/16/2019 00:08	WG1381516
Chloroform	U		0.0860	0.500	1	11/16/2019 00:08	WG1381516
Chloromethane	U		0.153	1.25	1	11/16/2019 00:08	WG1381516
2-Chlorotoluene	U		0.111	0.500	1	11/16/2019 00:08	WG1381516
4-Chlorotoluene	U		0.0972	0.500	1	11/16/2019 00:08	WG1381516
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/16/2019 00:08	WG1381516
1,2-Dibromoethane	U		0.193	0.500	1	11/16/2019 00:08	WG1381516
Dibromomethane	U		0.117	0.500	1	11/16/2019 00:08	WG1381516
1,2-Dichlorobenzene	U		0.101	0.500	1	11/16/2019 00:08	WG1381516
1,3-Dichlorobenzene	U		0.130	0.500	1	11/16/2019 00:08	WG1381516
1,4-Dichlorobenzene	U		0.121	0.500	1	11/16/2019 00:08	WG1381516
Dichlorodifluoromethane	U		0.127	2.50	1	11/16/2019 00:08	WG1381516
1,1-Dichloroethane	U		0.114	0.500	1	11/16/2019 00:08	WG1381516
1,2-Dichloroethane	U		0.108	0.500	1	11/16/2019 00:08	WG1381516
1,1-Dichloroethene	U		0.940	2.50	5	11/19/2019 14:00	WG1382748
cis-1,2-Dichloroethene	155		0.467	2.50	5	11/19/2019 14:00	WG1382748
trans-1,2-Dichloroethene	U		0.760	2.50	5	11/19/2019 14:00	WG1382748
1,2-Dichloropropane	U		0.190	0.500	1	11/16/2019 00:08	WG1381516
1,1-Dichloropropene	U		0.128	0.500	1	11/16/2019 00:08	WG1381516
1,3-Dichloropropane	U		0.147	1.00	1	11/16/2019 00:08	WG1381516
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/16/2019 00:08	WG1381516
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/16/2019 00:08	WG1381516
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	11/16/2019 00:08	WG1381516
2,2-Dichloropropane	U		0.0929	0.500	1	11/16/2019 00:08	WG1381516
Di-isopropyl ether	U		0.0924	0.500	1	11/16/2019 00:08	WG1381516
Ethylbenzene	0.247	J	0.158	0.500	1	11/16/2019 00:08	WG1381516
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/16/2019 00:08	WG1381516
2-Hexanone	U		0.757	5.00	1	11/16/2019 00:08	WG1381516
n-Hexane	U		0.305	5.00	1	11/16/2019 00:08	WG1381516
Iodomethane	U UJ	J0	0.377	10.0	1	11/16/2019 00:08	WG1381516
Isopropylbenzene	U		0.126	0.500	1	11/16/2019 00:08	WG1381516
p-Isopropyltoluene	U		0.138	0.500	1	11/16/2019 00:08	WG1381516
2-Butanone (MEK)	55.1		1.28	5.00	1	11/16/2019 00:08	WG1381516
Methylene Chloride	U		1.07	2.50	1	11/16/2019 00:08	WG1381516
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/16/2019 00:08	WG1381516
Methyl tert-butyl ether	U		0.102	0.500	1	11/16/2019 00:08	WG1381516
Naphthalene	U		0.174	2.50	1	11/16/2019 00:08	WG1381516
n-Propylbenzene	U		0.162	0.500	1	11/16/2019 00:08	WG1381516
Styrene	U		0.117	0.500	1	11/16/2019 00:08	WG1381516
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/16/2019 00:08	WG1381516
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/16/2019 00:08	WG1381516
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/16/2019 00:08	WG1381516
Tetrachloroethene	2.10	J	0.995	2.50	5	11/19/2019 14:00	WG1382748
Toluene	U		0.412	0.500	1	11/16/2019 00:08	WG1381516
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/16/2019 00:08	WG1381516
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/16/2019 00:08	WG1381516
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/16/2019 00:08	WG1381516
1,1,2-Trichloroethane	U		0.186	0.500	1	11/16/2019 00:08	WG1381516
Trichloroethene	1.87	J	0.765	2.50	5	11/19/2019 14:00	WG1382748
Trichlorofluoromethane	U		0.130	2.50	1	11/16/2019 00:08	WG1381516
1,2,3-Trichloropropane	U UJ	J0	1.23	12.5	5	11/19/2019 14:00	WG1382748
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/16/2019 00:08	WG1381516
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/16/2019 00:08	WG1381516
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/16/2019 00:08	WG1381516

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/16/2019 00:08	WG1381516
Vinyl chloride	76.6		0.590	2.50	5	11/19/2019 14:00	WG1382748
Xylenes, Total	U		0.316	1.50	1	11/16/2019 00:08	WG1381516
(S) Toluene-d8	*99.7*			*80.0-120*		*11/16/2019 00:08*	WG1381516
(S) Toluene-d8	*108*			*80.0-120*		*11/19/2019 14:00*	WG1382748
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*11/16/2019 00:08*	WG1381516
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*11/19/2019 14:00*	WG1382748
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*		*11/16/2019 00:08*	WG1381516
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/19/2019 14:00*	WG1382748

Sample Narrative:

L1158133-02 WG1381516, WG1382748: Not all compounds reportable at lower dilution.

L1158133-02 WG1381516, WG1382748: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

JC 1/3/2020

SAMPLE RESULTS - 03

L1158133

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	1740000		2710	20000	1	11/14/2019 01:45	WG1379400

Sample Narrative:

L1158133-03 WG1379400: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	170000		260	5000	5	11/07/2019 22:51	WG1376795
Nitrate	U		22.7	100	1	11/07/2019 22:38	WG1376795
Sulfate	U		387	25000	5	11/07/2019 22:51	WG1376795

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	827000		20400	200000	200	11/12/2019 10:59	WG1378255

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	39300		750	5000	50	11/12/2019 18:26	WG1378898
Manganese	8530		12.5	250	50	11/12/2019 18:26	WG1378898

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	249	J+ ~~B~~	31.6	100	1	11/10/2019 23:27	WG1378064
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*11/10/2019 23:27*	WG1378064

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	17600		2.87	6.78	10	11/12/2019 13:46	WG1378754
Ethane	71.9		0.296	1.29	1	11/11/2019 14:26	WG1378445
Ethene	7880		0.422	1.27	1	11/11/2019 14:26	WG1378445

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	245		1.05	25.0	1	11/16/2019 00:29	WG1381516
Acrylonitrile	U		0.873	5.00	1	11/16/2019 00:29	WG1381516
Benzene	U		0.0896	0.500	1	11/16/2019 00:29	WG1381516
Bromobenzene	U		0.133	0.500	1	11/16/2019 00:29	WG1381516
Bromodichloromethane	U		0.0800	0.500	1	11/16/2019 00:29	WG1381516
Bromochloromethane	U		0.145	0.500	1	11/16/2019 00:29	WG1381516
Bromoform	U		0.186	0.500	1	11/16/2019 00:29	WG1381516
Bromomethane	U		3.14	50.0	20	11/19/2019 14:20	WG1382748
n-Butylbenzene	U		0.143	0.500	1	11/16/2019 00:29	WG1381516
sec-Butylbenzene	U		0.134	0.500	1	11/16/2019 00:29	WG1381516
tert-Butylbenzene	U		0.183	0.500	1	11/16/2019 00:29	WG1381516
Carbon disulfide	1.16		0.101	0.500	1	11/16/2019 00:29	WG1381516
Carbon tetrachloride	U		0.159	0.500	1	11/16/2019 00:29	WG1381516

JC 1/3/2020

MW-178-110619

Collected date/time: 11/06/19 11:55

SAMPLE RESULTS - 03

L1158133

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/16/2019 00:29	WG1381516
Chlorodibromomethane	U		0.128	0.500	1	11/16/2019 00:29	WG1381516
Chloroethane	U		0.141	2.50	1	11/16/2019 00:29	WG1381516
Chloroform	0.362	J	0.0860	0.500	1	11/16/2019 00:29	WG1381516
Chloromethane	U		0.153	1.25	1	11/16/2019 00:29	WG1381516
2-Chlorotoluene	U		0.111	0.500	1	11/16/2019 00:29	WG1381516
4-Chlorotoluene	U		0.0972	0.500	1	11/16/2019 00:29	WG1381516
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/16/2019 00:29	WG1381516
1,2-Dibromoethane	U		0.193	0.500	1	11/16/2019 00:29	WG1381516
Dibromomethane	U		0.117	0.500	1	11/16/2019 00:29	WG1381516
1,2-Dichlorobenzene	U		0.101	0.500	1	11/16/2019 00:29	WG1381516
1,3-Dichlorobenzene	U		0.130	0.500	1	11/16/2019 00:29	WG1381516
1,4-Dichlorobenzene	U		0.121	0.500	1	11/16/2019 00:29	WG1381516
Dichlorodifluoromethane	U		0.127	2.50	1	11/16/2019 00:29	WG1381516
1,1-Dichloroethane	U		0.114	0.500	1	11/16/2019 00:29	WG1381516
1,2-Dichloroethane	U		0.108	0.500	1	11/16/2019 00:29	WG1381516
1,1-Dichloroethene	U		0.188	0.500	1	11/16/2019 00:29	WG1381516
cis-1,2-Dichloroethene	5.28	J	1.87	10.0	20	11/19/2019 14:20	WG1382748
trans-1,2-Dichloroethene	24.6		0.152	0.500	1	11/16/2019 00:29	WG1381516
1,2-Dichloropropane	U		0.190	0.500	1	11/16/2019 00:29	WG1381516
1,1-Dichloropropene	U		0.128	0.500	1	11/16/2019 00:29	WG1381516
1,3-Dichloropropane	U		0.147	1.00	1	11/16/2019 00:29	WG1381516
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/16/2019 00:29	WG1381516
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/16/2019 00:29	WG1381516
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	11/16/2019 00:29	WG1381516
2,2-Dichloropropane	U		0.0929	0.500	1	11/16/2019 00:29	WG1381516
Di-isopropyl ether	U		0.0924	0.500	1	11/16/2019 00:29	WG1381516
Ethylbenzene	0.321	J	0.158	0.500	1	11/16/2019 00:29	WG1381516
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/16/2019 00:29	WG1381516
2-Hexanone	3.30	J	0.757	5.00	1	11/16/2019 00:29	WG1381516
n-Hexane	U		0.305	5.00	1	11/16/2019 00:29	WG1381516
Iodomethane	U	UJ J0	0.377	10.0	1	11/16/2019 00:29	WG1381516
Isopropylbenzene	U		0.126	0.500	1	11/16/2019 00:29	WG1381516
p-Isopropyltoluene	U		0.138	0.500	1	11/16/2019 00:29	WG1381516
2-Butanone (MEK)	165		1.28	5.00	1	11/16/2019 00:29	WG1381516
Methylene Chloride	U		1.07	2.50	1	11/16/2019 00:29	WG1381516
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/16/2019 00:29	WG1381516
Methyl tert-butyl ether	U		0.102	0.500	1	11/16/2019 00:29	WG1381516
Naphthalene	U		0.174	2.50	1	11/16/2019 00:29	WG1381516
n-Propylbenzene	U		0.162	0.500	1	11/16/2019 00:29	WG1381516
Styrene	U		0.117	0.500	1	11/16/2019 00:29	WG1381516
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/16/2019 00:29	WG1381516
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/16/2019 00:29	WG1381516
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/16/2019 00:29	WG1381516
Tetrachloroethene	U		3.98	10.0	20	11/19/2019 14:20	WG1382748
Toluene	0.477	J	0.412	0.500	1	11/16/2019 00:29	WG1381516
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/16/2019 00:29	WG1381516
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/16/2019 00:29	WG1381516
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/16/2019 00:29	WG1381516
1,1,2-Trichloroethane	U		0.186	0.500	1	11/16/2019 00:29	WG1381516
Trichloroethene	U		3.06	10.0	20	11/19/2019 14:20	WG1382748
Trichlorofluoromethane	U		0.130	2.50	1	11/16/2019 00:29	WG1381516
1,2,3-Trichloropropane	U	UJ J0	4.94	50.0	20	11/19/2019 14:20	WG1382748
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/16/2019 00:29	WG1381516
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/16/2019 00:29	WG1381516
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/16/2019 00:29	WG1381516

JC 1/3/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/16/2019 00:29	WG1381516
Vinyl chloride	877		2.36	10.0	20	11/19/2019 14:20	WG1382748
Xylenes, Total	U		0.316	1.50	1	11/16/2019 00:29	WG1381516
(S) Toluene-d8	*94.9*			*80.0-120*		*11/16/2019 00:29*	WG1381516
(S) Toluene-d8	*112*			*80.0-120*		*11/19/2019 14:20*	WG1382748
(S) 4-Bromofluorobenzene	*97.7*			*77.0-126*		*11/16/2019 00:29*	WG1381516
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*11/19/2019 14:20*	WG1382748
(S) 1,2-Dichloroethane-d4	*90.4*			*70.0-130*		*11/16/2019 00:29*	WG1381516
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*11/19/2019 14:20*	WG1382748

Sample Narrative:

L1158133-03 WG1381516, WG1382748: Not all compounds reportable at lower dilution.

L1158133-03 WG1381516, WG1382748: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

JC
1/3/2020

SAMPLE RESULTS - 04

L1158133

MW-177-110619

Collected date/time: 11/06/19 13:05

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	589000		2710	20000	1	11/14/2019 01:54	WG1379400

Sample Narrative:

L1158133-04 WG1379400: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	285000		519	10000	10	11/07/2019 23:18	WG1376795
Nitrate	U		22.7	100	1	11/07/2019 23:04	WG1376795
Sulfate	91800		77.4	5000	1	11/07/2019 23:04	WG1376795

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	56300		102	1000	1	11/10/2019 04:56	WG1378047

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	26800		15.0	100	1	11/10/2019 21:22	WG1377945
Manganese	3650		0.250	5.00	1	11/10/2019 21:22	WG1377945

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	122000	J+	3160	10000	100	11/14/2019 09:36	WG1380099
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*11/14/2019 09:36*	WG1380099

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	22500		2.87	6.78	10	11/12/2019 13:52	WG1378754
Ethane	15.1		0.296	1.29	1	11/11/2019 14:29	WG1378445
Ethene	4000		0.422	1.27	1	11/11/2019 14:29	WG1378445

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	15.0	U ~~J~~	1.05	25.0	1	11/16/2019 00:49	WG1381516	
Acrylonitrile	U		0.873	5.00	1	11/16/2019 00:49	WG1381516	
Benzene	0.744		0.0896	0.500	1	11/16/2019 00:49	WG1381516	
Bromobenzene	U		0.133	0.500	1	11/16/2019 00:49	WG1381516	
Bromodichloromethane	U		0.0800	0.500	1	11/16/2019 00:49	WG1381516	
Bromochloromethane	U		0.145	0.500	1	11/16/2019 00:49	WG1381516	
Bromoform	U		0.186	0.500	1	11/16/2019 00:49	WG1381516	JC 1/3/2020
Bromomethane	U		157	2500	1000	11/19/2019 14:41	WG1382748	
n-Butylbenzene	U		0.143	0.500	1	11/16/2019 00:49	WG1381516	
sec-Butylbenzene	U		0.134	0.500	1	11/16/2019 00:49	WG1381516	
tert-Butylbenzene	U		0.183	0.500	1	11/16/2019 00:49	WG1381516	
Carbon disulfide	38.3	J	0.101	0.500	1	11/16/2019 00:49	WG1381516	JC 1/6/2020
Carbon tetrachloride	U		0.159	0.500	1	11/16/2019 00:49	WG1381516	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	11/16/2019 00:49	WG1381516
Chlorodibromomethane	U		0.128	0.500	1	11/16/2019 00:49	WG1381516
Chloroethane	U UJ		0.141	2.50	1	11/16/2019 00:49	WG1381516
Chloroform	U		0.0860	0.500	1	11/16/2019 00:49	WG1381516
Chloromethane	U		0.153	1.25	1	11/16/2019 00:49	WG1381516
2-Chlorotoluene	U		0.111	0.500	1	11/16/2019 00:49	WG1381516
4-Chlorotoluene	U		0.0972	0.500	1	11/16/2019 00:49	WG1381516
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/16/2019 00:49	WG1381516
1,2-Dibromoethane	U		0.193	0.500	1	11/16/2019 00:49	WG1381516
Dibromomethane	U		0.117	0.500	1	11/16/2019 00:49	WG1381516
1,2-Dichlorobenzene	U		0.101	0.500	1	11/16/2019 00:49	WG1381516
1,3-Dichlorobenzene	U		0.130	0.500	1	11/16/2019 00:49	WG1381516
1,4-Dichlorobenzene	U		0.121	0.500	1	11/16/2019 00:49	WG1381516
Dichlorodifluoromethane	U		0.127	2.50	1	11/16/2019 00:49	WG1381516
1,1-Dichloroethane	U		0.114	0.500	1	11/16/2019 00:49	WG1381516
1,2-Dichloroethane	U		0.108	0.500	1	11/16/2019 00:49	WG1381516
1,1-Dichloroethene	268 J	E	0.188	0.500	1	11/16/2019 00:49	WG1381516
cis-1,2-Dichloroethene	131000 J		93.3	500	1000	11/19/2019 14:41	WG1382748
trans-1,2-Dichloroethene	395	J	152	500	1000	11/19/2019 14:41	WG1382748
1,2-Dichloropropane	U		0.190	0.500	1	11/16/2019 00:49	WG1381516
1,1-Dichloropropene	U		0.128	0.500	1	11/16/2019 00:49	WG1381516
1,3-Dichloropropane	U		0.147	1.00	1	11/16/2019 00:49	WG1381516
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/16/2019 00:49	WG1381516
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/16/2019 00:49	WG1381516
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	11/16/2019 00:49	WG1381516
2,2-Dichloropropane	U		0.0929	0.500	1	11/16/2019 00:49	WG1381516
Di-isopropyl ether	U		0.0924	0.500	1	11/16/2019 00:49	WG1381516
Ethylbenzene	0.579		0.158	0.500	1	11/16/2019 00:49	WG1381516
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/16/2019 00:49	WG1381516
2-Hexanone	U		0.757	5.00	1	11/16/2019 00:49	WG1381516
n-Hexane	U		0.305	5.00	1	11/16/2019 00:49	WG1381516
Iodomethane	U UJ	J0	0.377	10.0	1	11/16/2019 00:49	WG1381516
Isopropylbenzene	0.184	J	0.126	0.500	1	11/16/2019 00:49	WG1381516
p-Isopropyltoluene	U		0.138	0.500	1	11/16/2019 00:49	WG1381516
2-Butanone (MEK)	10.3		1.28	5.00	1	11/16/2019 00:49	WG1381516
Methylene Chloride	U		1.07	2.50	1	11/16/2019 00:49	WG1381516
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/16/2019 00:49	WG1381516
Methyl tert-butyl ether	U		0.102	0.500	1	11/16/2019 00:49	WG1381516
Naphthalene	0.672	J	0.174	2.50	1	11/16/2019 00:49	WG1381516
n-Propylbenzene	0.516		0.162	0.500	1	11/16/2019 00:49	WG1381516
Styrene	U		0.117	0.500	1	11/16/2019 00:49	WG1381516
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/16/2019 00:49	WG1381516
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/16/2019 00:49	WG1381516
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/16/2019 00:49	WG1381516
Tetrachloroethene	3180 J		199	500	1000	11/19/2019 14:41	WG1382748
Toluene	4.09		0.412	0.500	1	11/16/2019 00:49	WG1381516
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/16/2019 00:49	WG1381516
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/16/2019 00:49	WG1381516
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/16/2019 00:49	WG1381516
1,1,2-Trichloroethane	U		0.186	0.500	1	11/16/2019 00:49	WG1381516
Trichloroethene	1710 J		153	500	1000	11/19/2019 14:41	WG1382748
Trichlorofluoromethane	U		0.130	2.50	1	11/16/2019 00:49	WG1381516
1,2,3-Trichloropropane	U UJ	J0	247	2500	1000	11/19/2019 14:41	WG1382748
1,2,4-Trimethylbenzene	3.82		0.123	0.500	1	11/16/2019 00:49	WG1381516
1,2,3-Trimethylbenzene	1.96		0.0739	0.500	1	11/16/2019 00:49	WG1381516
1,3,5-Trimethylbenzene	1.21		0.124	0.500	1	11/16/2019 00:49	WG1381516

JC 1/3/2020

JC 1/6/2020

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/16/2019 00:49	WG1381516
Vinyl chloride	11000	J	118	500	1000	11/19/2019 14:41	WG1382748
Xylenes, Total	2.77		0.316	1.50	1	11/16/2019 00:49	WG1381516
(S) Toluene-d8	*95.1*			*80.0-120*		*11/16/2019 00:49*	WG1381516
(S) Toluene-d8	*110*			*80.0-120*		*11/19/2019 14:41*	WG1382748
(S) 4-Bromofluorobenzene	*98.9*			*77.0-126*		*11/16/2019 00:49*	WG1381516
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*11/19/2019 14:41*	WG1382748
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/16/2019 00:49*	WG1381516
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/19/2019 14:41*	WG1382748

Sample Narrative:

L1158133-04 WG1381516, WG1382748: Not all compounds reportable at lower dilution.

L1158133-04 WG1381516, WG1382748: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

JC 1/6/2020

JC 1/3/2020

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	1180000		2710	20000	1	11/14/2019 02:09	WG1379400

Sample Narrative:

L1158133-05 WG1379400: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	121000		260	5000	5	11/07/2019 23:44	WG1376795
Nitrate	U		22.7	100	1	11/07/2019 23:31	WG1376795
Sulfate	89100		77.4	5000	1	11/07/2019 23:31	WG1376795

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	145000		510	5000	5	11/10/2019 05:19	WG1378047

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	21600		15.0	100	1	11/10/2019 22:02	WG1377945
Manganese	9130		0.250	5.00	1	11/10/2019 22:02	WG1377945

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2310 J+		31.6	100	1	11/11/2019 00:12	WG1378064
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*11/11/2019 00:12*	WG1378064

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	29400		2.87	6.78	10	11/12/2019 13:54	WG1378754
Ethane	U		0.296	1.29	1	11/11/2019 14:34	WG1378445
Ethene	222		0.422	1.27	1	11/11/2019 14:34	WG1378445

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	19.1 U	~~J~~	1.05	25.0	1	11/16/2019 01:09	WG1381516
Acrylonitrile	U		0.873	5.00	1	11/16/2019 01:09	WG1381516
Benzene	U		0.0896	0.500	1	11/16/2019 01:09	WG1381516
Bromobenzene	U		0.133	0.500	1	11/16/2019 01:09	WG1381516
Bromodichloromethane	U		0.0800	0.500	1	11/16/2019 01:09	WG1381516
Bromochloromethane	U		0.145	0.500	1	11/16/2019 01:09	WG1381516
Bromoform	U		0.186	0.500	1	11/16/2019 01:09	WG1381516
Bromomethane	U		15.7	250	100	11/19/2019 15:01	WG1382748
n-Butylbenzene	U		0.143	0.500	1	11/16/2019 01:09	WG1381516
sec-Butylbenzene	U		0.134	0.500	1	11/16/2019 01:09	WG1381516
tert-Butylbenzene	U		0.183	0.500	1	11/16/2019 01:09	WG1381516
Carbon disulfide	4.06		0.101	0.500	1	11/16/2019 01:09	WG1381516
Carbon tetrachloride	U		0.159	0.500	1	11/16/2019 01:09	WG1381516

JC 1/3/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	11/16/2019 01:09	WG1381516	
Chlorodibromomethane	U		0.128	0.500	1	11/16/2019 01:09	WG1381516	
Chloroethane	U		0.141	2.50	1	11/16/2019 01:09	WG1381516	
Chloroform	U		0.0860	0.500	1	11/16/2019 01:09	WG1381516	
Chloromethane	U		0.153	1.25	1	11/16/2019 01:09	WG1381516	
2-Chlorotoluene	U		0.111	0.500	1	11/16/2019 01:09	WG1381516	
4-Chlorotoluene	U		0.0972	0.500	1	11/16/2019 01:09	WG1381516	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/16/2019 01:09	WG1381516	
1,2-Dibromoethane	U		0.193	0.500	1	11/16/2019 01:09	WG1381516	
Dibromomethane	U		0.117	0.500	1	11/16/2019 01:09	WG1381516	
1,2-Dichlorobenzene	U		0.101	0.500	1	11/16/2019 01:09	WG1381516	
1,3-Dichlorobenzene	U		0.130	0.500	1	11/16/2019 01:09	WG1381516	
1,4-Dichlorobenzene	U		0.121	0.500	1	11/16/2019 01:09	WG1381516	
Dichlorodifluoromethane	U		0.127	2.50	1	11/16/2019 01:09	WG1381516	
1,1-Dichloroethane	0.148	J	0.114	0.500	1	11/16/2019 01:09	WG1381516	
1,2-Dichloroethane	U		0.108	0.500	1	11/16/2019 01:09	WG1381516	
1,1-Dichloroethene	13.0		0.188	0.500	1	11/16/2019 01:09	WG1381516	
cis-1,2-Dichloroethene	3780		9.33	50.0	100	11/19/2019 15:01	WG1382748	
trans-1,2-Dichloroethene	U		15.2	50.0	100	11/19/2019 15:01	WG1382748	
1,2-Dichloropropane	U		0.190	0.500	1	11/16/2019 01:09	WG1381516	
1,1-Dichloropropene	U		0.128	0.500	1	11/16/2019 01:09	WG1381516	
1,3-Dichloropropane	U		0.147	1.00	1	11/16/2019 01:09	WG1381516	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/16/2019 01:09	WG1381516	
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/16/2019 01:09	WG1381516	
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	11/16/2019 01:09	WG1381516	
2,2-Dichloropropane	U		0.0929	0.500	1	11/16/2019 01:09	WG1381516	
Di-isopropyl ether	U		0.0924	0.500	1	11/16/2019 01:09	WG1381516	
Ethylbenzene	0.273	J	0.158	0.500	1	11/16/2019 01:09	WG1381516	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/16/2019 01:09	WG1381516	
2-Hexanone	U		0.757	5.00	1	11/16/2019 01:09	WG1381516	
n-Hexane	U		0.305	5.00	1	11/16/2019 01:09	WG1381516	
Iodomethane	U	UJ J0	0.377	10.0	1	11/16/2019 01:09	WG1381516	
Isopropylbenzene	U		0.126	0.500	1	11/16/2019 01:09	WG1381516	
p-Isopropyltoluene	U		0.138	0.500	1	11/16/2019 01:09	WG1381516	
2-Butanone (MEK)	30.6		1.28	5.00	1	11/16/2019 01:09	WG1381516	
Methylene Chloride	U		1.07	2.50	1	11/16/2019 01:09	WG1381516	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/16/2019 01:09	WG1381516	
Methyl tert-butyl ether	U		0.102	0.500	1	11/16/2019 01:09	WG1381516	
Naphthalene	U		0.174	2.50	1	11/16/2019 01:09	WG1381516	
n-Propylbenzene	U		0.162	0.500	1	11/16/2019 01:09	WG1381516	JC 1/3/2020
Styrene	U		0.117	0.500	1	11/16/2019 01:09	WG1381516	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/16/2019 01:09	WG1381516	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/16/2019 01:09	WG1381516	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/16/2019 01:09	WG1381516	
Tetrachloroethene	50.5		19.9	50.0	100	11/19/2019 15:01	WG1382748	
Toluene	0.443	J	0.412	0.500	1	11/16/2019 01:09	WG1381516	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/16/2019 01:09	WG1381516	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/16/2019 01:09	WG1381516	
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/16/2019 01:09	WG1381516	
1,1,2-Trichloroethane	U		0.186	0.500	1	11/16/2019 01:09	WG1381516	
Trichloroethene	46.2	J	15.3	50.0	100	11/19/2019 15:01	WG1382748	
Trichlorofluoromethane	U		0.130	2.50	1	11/16/2019 01:09	WG1381516	
1,2,3-Trichloropropane	U	UJ J0	24.7	250	100	11/19/2019 15:01	WG1382748	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/16/2019 01:09	WG1381516	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/16/2019 01:09	WG1381516	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/16/2019 01:09	WG1381516	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	11/16/2019 01:09	WG1381516
Vinyl chloride	533		11.8	50.0	100	11/19/2019 15:01	WG1382748
Xylenes, Total	U		0.316	1.50	1	11/16/2019 01:09	WG1381516
(S) Toluene-d8	*95.0*			*80.0-120*		*11/16/2019 01:09*	WG1381516
(S) Toluene-d8	*113*			*80.0-120*		*11/19/2019 15:01*	WG1382748
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*11/16/2019 01:09*	WG1381516
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*11/19/2019 15:01*	WG1382748
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*11/16/2019 01:09*	WG1381516
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/19/2019 15:01*	WG1382748

Sample Narrative:

L1158133-05 WG1381516, WG1382748: Not all compounds reportable at lower dilution.

L1158133-05 WG1381516, WG1382748: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

JC 1/3/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	605000		2710	20000	1	11/16/2019 11:46	WG1381472

Sample Narrative:

L1159108-01 WG1381472: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	161000		260	5000	5	11/09/2019 18:07	WG1377890
Nitrate	U		22.7	100	1	11/09/2019 17:53	WG1377890
Sulfate	449	U B J	77.4	5000	1	11/09/2019 17:53	WG1377890

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	26200		102	1000	1	11/13/2019 19:01	WG1379453

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	3740		15.0	100	1	11/15/2019 22:31	WG1379539
Manganese	1090		0.250	5.00	1	11/15/2019 22:31	WG1379539

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	12100		2.87	6.78	10	11/15/2019 11:14	WG1380940
Ethane	18.7		0.296	1.29	1	11/14/2019 14:14	WG1380294
Ethene	2710		0.422	1.27	1	11/14/2019 14:14	WG1380294

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	24.4	U ~~B J~~	5.25	125	5	11/16/2019 03:52	WG1381516
Gasoline Range Organics-NWTPH	23700	J+	498	2000	20	11/13/2019 23:40	WG1380039
Acrylonitrile	U		4.37	25.0	5	11/16/2019 03:52	WG1381516
Benzene	0.672	J	0.448	2.50	5	11/16/2019 03:52	WG1381516
Bromobenzene	U		0.665	2.50	5	11/16/2019 03:52	WG1381516
Bromodichloromethane	U		0.400	2.50	5	11/16/2019 03:52	WG1381516
Bromochloromethane	U		0.725	2.50	5	11/16/2019 03:52	WG1381516
Bromoform	U		0.930	2.50	5	11/16/2019 03:52	WG1381516
Bromomethane	U		39.3	625	250	11/19/2019 17:23	WG1382748
n-Butylbenzene	U		0.715	2.50	5	11/16/2019 03:52	WG1381516
sec-Butylbenzene	U		0.670	2.50	5	11/16/2019 03:52	WG1381516
tert-Butylbenzene	U		0.915	2.50	5	11/16/2019 03:52	WG1381516
Carbon disulfide	U	UJ	0.505	2.50	5	11/16/2019 03:52	WG1381516
Carbon tetrachloride	U		0.795	2.50	5	11/16/2019 03:52	WG1381516
Chlorobenzene	U		0.700	2.50	5	11/16/2019 03:52	WG1381516
Chlorodibromomethane	U		0.640	2.50	5	11/16/2019 03:52	WG1381516
Chloroethane	U		0.705	12.5	5	11/16/2019 03:52	WG1381516
Chloroform	U		0.430	2.50	5	11/16/2019 03:52	WG1381516
Chloromethane	U		0.765	6.25	5	11/16/2019 03:52	WG1381516
2-Chlorotoluene	U		0.555	2.50	5	11/16/2019 03:52	WG1381516

JC 1/6/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
4-Chlorotoluene	U		0.486	2.50	5	11/16/2019 03:52	WG1381516
1,2-Dibromo-3-Chloropropane	U		1.63	12.5	5	11/16/2019 03:52	WG1381516
1,2-Dibromoethane	U		0.965	2.50	5	11/16/2019 03:52	WG1381516
Dibromomethane	U		0.585	2.50	5	11/16/2019 03:52	WG1381516
1,2-Dichlorobenzene	U		0.505	2.50	5	11/16/2019 03:52	WG1381516
1,3-Dichlorobenzene	U		0.650	2.50	5	11/16/2019 03:52	WG1381516
1,4-Dichlorobenzene	U		0.605	2.50	5	11/16/2019 03:52	WG1381516
Dichlorodifluoromethane	U		0.635	12.5	5	11/16/2019 03:52	WG1381516
1,1-Dichloroethane	U		0.570	2.50	5	11/16/2019 03:52	WG1381516
1,2-Dichloroethane	U		0.540	2.50	5	11/16/2019 03:52	WG1381516
1,1-Dichloroethene	99.2		0.940	2.50	5	11/16/2019 03:52	WG1381516
cis-1,2-Dichloroethene	26300		23.3	125	250	11/19/2019 17:23	WG1382748
trans-1,2-Dichloroethene	237		0.760	2.50	5	11/16/2019 03:52	WG1381516
1,2-Dichloropropane	U		0.950	2.50	5	11/16/2019 03:52	WG1381516
1,1-Dichloropropene	U		0.640	2.50	5	11/16/2019 03:52	WG1381516
1,3-Dichloropropane	U		0.735	5.00	5	11/16/2019 03:52	WG1381516
cis-1,3-Dichloropropene	U		0.488	2.50	5	11/16/2019 03:52	WG1381516
trans-1,3-Dichloropropene	U		1.11	2.50	5	11/16/2019 03:52	WG1381516
trans-1,4-Dichloro-2-butene	U	UJ J0	1.29	25.0	5	11/16/2019 03:52	WG1381516
2,2-Dichloropropane	U		0.465	2.50	5	11/16/2019 03:52	WG1381516
Di-isopropyl ether	U		0.462	2.50	5	11/16/2019 03:52	WG1381516
Ethylbenzene	U		0.790	2.50	5	11/16/2019 03:52	WG1381516
Hexachloro-1,3-butadiene	U		0.785	5.00	5	11/16/2019 03:52	WG1381516
2-Hexanone	U		3.78	25.0	5	11/16/2019 03:52	WG1381516
n-Hexane	U		1.53	25.0	5	11/16/2019 03:52	WG1381516
Iodomethane	U	UJ J0	1.89	50.0	5	11/16/2019 03:52	WG1381516
Isopropylbenzene	U		0.630	2.50	5	11/16/2019 03:52	WG1381516
p-Isopropyltoluene	U		0.690	2.50	5	11/16/2019 03:52	WG1381516
2-Butanone (MEK)	U		6.40	25.0	5	11/16/2019 03:52	WG1381516
Methylene Chloride	U		5.35	12.5	5	11/16/2019 03:52	WG1381516
4-Methyl-2-pentanone (MIBK)	U		4.12	25.0	5	11/16/2019 03:52	WG1381516
Methyl tert-butyl ether	U		0.510	2.50	5	11/16/2019 03:52	WG1381516
Naphthalene	U		0.870	12.5	5	11/16/2019 03:52	WG1381516
n-Propylbenzene	U		0.810	2.50	5	11/16/2019 03:52	WG1381516
Styrene	U		0.585	2.50	5	11/16/2019 03:52	WG1381516
1,1,1,2-Tetrachloroethane	U		0.600	2.50	5	11/16/2019 03:52	WG1381516
1,1,2,2-Tetrachloroethane	U		0.650	2.50	5	11/16/2019 03:52	WG1381516
1,1,2-Trichlorotrifluoroethane	U		0.820	2.50	5	11/16/2019 03:52	WG1381516
Tetrachloroethene	U		49.8	125	250	11/19/2019 17:23	WG1382748
Toluene	U		2.06	2.50	5	11/16/2019 03:52	WG1381516
1,2,3-Trichlorobenzene	U		0.820	2.50	5	11/16/2019 03:52	WG1381516
1,2,4-Trichlorobenzene	U		1.78	2.50	5	11/16/2019 03:52	WG1381516
1,1,1-Trichloroethane	U		0.470	2.50	5	11/16/2019 03:52	WG1381516
1,1,2-Trichloroethane	U		0.930	2.50	5	11/16/2019 03:52	WG1381516
Trichloroethene	1.20	J	0.765	2.50	5	11/16/2019 03:52	WG1381516
Trichlorofluoromethane	U		0.650	12.5	5	11/16/2019 03:52	WG1381516
1,2,3-Trichloropropane	U	UJ J0	61.7	625	250	11/19/2019 17:23	WG1382748
1,2,4-Trimethylbenzene	U		0.615	2.50	5	11/16/2019 03:52	WG1381516
1,2,3-Trimethylbenzene	U		0.369	2.50	5	11/16/2019 03:52	WG1381516
1,3,5-Trimethylbenzene	U		0.620	2.50	5	11/16/2019 03:52	WG1381516
Vinyl acetate	U		3.22	25.0	5	11/16/2019 03:52	WG1381516
Vinyl chloride	9110		29.5	125	250	11/19/2019 17:23	WG1382748
Xylenes, Total	U		1.58	7.50	5	11/16/2019 03:52	WG1381516
(S) Toluene-d8	*98.6*			*80.0-120*		*11/16/2019 03:52*	WG1381516
(S) Toluene-d8	*111*			*80.0-120*		*11/19/2019 17:23*	WG1382748
(S) 4-Bromofluorobenzene	*98.9*			*77.0-126*		*11/16/2019 03:52*	WG1381516

JC 1/6/2020

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*11/19/2019 17:23*	WG1382748
(S) 1,2-Dichloroethane-d4	*107*			*80.0-125*		*11/13/2019 23:40*	WG1380039
(S) 4-Bromofluorobenzene	*100*			*75.0-120*		*11/13/2019 23:40*	WG1380039
(S) Toluene-d8	*98.4*			*80.0-120*		*11/13/2019 23:40*	WG1380039
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*11/16/2019 03:52*	WG1381516
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*11/19/2019 17:23*	WG1382748

Sample Narrative:

L1159108-01 WG1381516, WG1382748: Not all compounds reportable at lower dilution.

L1159108-01 WG1381516, WG1382748: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 1/6/2020

MW-184-110819

Collected date/time: 11/08/19 09:10

SAMPLE RESULTS - 02

L1159108

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	156000		2710	20000	1	11/16/2019 11:53	WG1381472

Sample Narrative:

L1159108-02 WG1381472: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	10800		51.9	1000	1	11/09/2019 18:20	WG1377890
Nitrate	28.4	J	22.7	100	1	11/09/2019 18:20	WG1377890
Sulfate	14300		77.4	5000	1	11/09/2019 18:20	WG1377890

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1080	B	102	1000	1	11/13/2019 19:15	WG1379453

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	83.6	J	15.0	100	1	11/15/2019 22:35	WG1379539
Manganese	268		0.250	5.00	1	11/15/2019 22:35	WG1379539

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	8.35		0.287	0.678	1	11/14/2019 14:21	WG1380294
Ethane	U		0.296	1.29	1	11/14/2019 14:21	WG1380294
Ethene	U		0.422	1.27	1	11/14/2019 14:21	WG1380294

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.38 U	~~B J~~	1.05	25.0	1	11/16/2019 04:13	WG1381516
Gasoline Range Organics-NWTPH	2310 J+		24.9	100	1	11/13/2019 22:58	WG1380039
Acrylonitrile	U		0.873	5.00	1	11/16/2019 04:13	WG1381516
Benzene	U		0.0896	0.500	1	11/16/2019 04:13	WG1381516
Bromobenzene	U		0.133	0.500	1	11/16/2019 04:13	WG1381516
Bromodichloromethane	U		0.0800	0.500	1	11/16/2019 04:13	WG1381516
Bromochloromethane	U		0.145	0.500	1	11/16/2019 04:13	WG1381516
Bromoform	U		0.186	0.500	1	11/16/2019 04:13	WG1381516
Bromomethane	U		15.7	250	100	11/19/2019 17:44	WG1382748
n-Butylbenzene	U		0.143	0.500	1	11/16/2019 04:13	WG1381516
sec-Butylbenzene	U		0.134	0.500	1	11/16/2019 04:13	WG1381516
tert-Butylbenzene	U		0.183	0.500	1	11/16/2019 04:13	WG1381516
Carbon disulfide	U		0.101	0.500	1	11/16/2019 04:13	WG1381516
Carbon tetrachloride	U		0.159	0.500	1	11/16/2019 04:13	WG1381516
Chlorobenzene	U		0.140	0.500	1	11/16/2019 04:13	WG1381516
Chlorodibromomethane	U		0.128	0.500	1	11/16/2019 04:13	WG1381516
Chloroethane	U		0.141	2.50	1	11/16/2019 04:13	WG1381516
Chloroform	U		0.0860	0.500	1	11/16/2019 04:13	WG1381516
Chloromethane	U		0.153	1.25	1	11/16/2019 04:13	WG1381516
2-Chlorotoluene	U		0.111	0.500	1	11/16/2019 04:13	WG1381516

JC 1/6/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
4-Chlorotoluene	U		0.0972	0.500	1	11/16/2019 04:13	WG1381516
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/16/2019 04:13	WG1381516
1,2-Dibromoethane	U		0.193	0.500	1	11/16/2019 04:13	WG1381516
Dibromomethane	U		0.117	0.500	1	11/16/2019 04:13	WG1381516
1,2-Dichlorobenzene	U		0.101	0.500	1	11/16/2019 04:13	WG1381516
1,3-Dichlorobenzene	U		0.130	0.500	1	11/16/2019 04:13	WG1381516
1,4-Dichlorobenzene	U		0.121	0.500	1	11/16/2019 04:13	WG1381516
Dichlorodifluoromethane	U		0.127	2.50	1	11/16/2019 04:13	WG1381516
1,1-Dichloroethane	U		0.114	0.500	1	11/16/2019 04:13	WG1381516
1,2-Dichloroethane	U		0.108	0.500	1	11/16/2019 04:13	WG1381516
1,1-Dichloroethene	16.0		0.188	0.500	1	11/16/2019 04:13	WG1381516
cis-1,2-Dichloroethene	79.0		0.0933	0.500	1	11/16/2019 04:13	WG1381516
trans-1,2-Dichloroethene	2.77		0.152	0.500	1	11/16/2019 04:13	WG1381516
1,2-Dichloropropane	U		0.190	0.500	1	11/16/2019 04:13	WG1381516
1,1-Dichloropropene	U		0.128	0.500	1	11/16/2019 04:13	WG1381516
1,3-Dichloropropane	U		0.147	1.00	1	11/16/2019 04:13	WG1381516
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/16/2019 04:13	WG1381516
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/16/2019 04:13	WG1381516
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	11/16/2019 04:13	WG1381516
2,2-Dichloropropane	U		0.0929	0.500	1	11/16/2019 04:13	WG1381516
Di-isopropyl ether	U		0.0924	0.500	1	11/16/2019 04:13	WG1381516
Ethylbenzene	U		0.158	0.500	1	11/16/2019 04:13	WG1381516
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/16/2019 04:13	WG1381516
2-Hexanone	U		0.757	5.00	1	11/16/2019 04:13	WG1381516
n-Hexane	U		0.305	5.00	1	11/16/2019 04:13	WG1381516
Iodomethane	U	UJ J0	0.377	10.0	1	11/16/2019 04:13	WG1381516
Isopropylbenzene	U		0.126	0.500	1	11/16/2019 04:13	WG1381516
p-Isopropyltoluene	U		0.138	0.500	1	11/16/2019 04:13	WG1381516
2-Butanone (MEK)	U		1.28	5.00	1	11/16/2019 04:13	WG1381516
Methylene Chloride	U		1.07	2.50	1	11/16/2019 04:13	WG1381516
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/16/2019 04:13	WG1381516
Methyl tert-butyl ether	U		0.102	0.500	1	11/16/2019 04:13	WG1381516
Naphthalene	U		0.174	2.50	1	11/16/2019 04:13	WG1381516
n-Propylbenzene	U		0.162	0.500	1	11/16/2019 04:13	WG1381516
Styrene	U		0.117	0.500	1	11/16/2019 04:13	WG1381516
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/16/2019 04:13	WG1381516
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/16/2019 04:13	WG1381516
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/16/2019 04:13	WG1381516
Tetrachloroethene	1590		19.9	50.0	100	11/19/2019 17:44	WG1382748
Toluene	U		0.412	0.500	1	11/16/2019 04:13	WG1381516
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/16/2019 04:13	WG1381516
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/16/2019 04:13	WG1381516
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/16/2019 04:13	WG1381516
1,1,2-Trichloroethane	U		0.186	0.500	1	11/16/2019 04:13	WG1381516
Trichloroethene	733		15.3	50.0	100	11/19/2019 17:44	WG1382748
Trichlorofluoromethane	U		0.130	2.50	1	11/16/2019 04:13	WG1381516
1,2,3-Trichloropropane	U	UJ J0	24.7	250	100	11/19/2019 17:44	WG1382748
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/16/2019 04:13	WG1381516
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/16/2019 04:13	WG1381516
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/16/2019 04:13	WG1381516
Vinyl acetate	U		0.645	5.00	1	11/16/2019 04:13	WG1381516
Vinyl chloride	U		11.8	50.0	100	11/19/2019 17:44	WG1382748
Xylenes, Total	U		0.316	1.50	1	11/16/2019 04:13	WG1381516
(S) Toluene-d8	*96.1*			*80.0-120*		*11/16/2019 04:13*	WG1381516
(S) Toluene-d8	*112*			*80.0-120*		*11/19/2019 17:44*	WG1382748
(S) 4-Bromofluorobenzene	*98.6*			*77.0-126*		*11/16/2019 04:13*	WG1381516

JC 1/6/2020

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*113*			*77.0-126*		*11/19/2019 17:44*	WG1382748
(S) 1,2-Dichloroethane-d4	*100*			*80.0-125*		*11/13/2019 22:58*	WG1380039
(S) 4-Bromofluorobenzene	*104*			*75.0-120*		*11/13/2019 22:58*	WG1380039
(S) Toluene-d8	*94.9*			*80.0-120*		*11/13/2019 22:58*	WG1380039
(S) 1,2-Dichloroethane-d4	*97.5*			*70.0-130*		*11/16/2019 04:13*	WG1381516
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*11/19/2019 17:44*	WG1382748

Sample Narrative:

L1159108-02 WG1381516, WG1382748: Not all compounds reportable at lower dilution.

L1159108-02 WG1381516, WG1382748: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 1/6/2020

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	162000		2710	20000	1	11/16/2019 12:02	WG1381472

Sample Narrative:

L1159108-03 WG1381472: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	13000		51.9	1000	1	11/09/2019 18:59	WG1377890
Nitrate	U		22.7	100	1	11/09/2019 18:59	WG1377890
Sulfate	297	B J	77.4	5000	1	11/09/2019 18:59	WG1377890

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7950		102	1000	1	11/13/2019 20:10	WG1379453

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2460		15.0	100	1	11/16/2019 10:48	WG1379539
Manganese	119		0.250	5.00	1	11/16/2019 10:48	WG1379539

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	933		0.287	0.678	1	11/14/2019 14:24	WG1380294
Ethane	8.02		0.296	1.29	1	11/14/2019 14:24	WG1380294
Ethene	7.25		0.422	1.27	1	11/14/2019 14:24	WG1380294

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	15.4 U	~~J~~	1.05	25.0	1	11/16/2019 04:33	WG1381516
Gasoline Range Organics-NWTPH	45.0	J	24.9	100	1	11/13/2019 23:19	WG1380039
Acrylonitrile	U		0.873	5.00	1	11/16/2019 04:33	WG1381516
Benzene	U		0.0896	0.500	1	11/16/2019 04:33	WG1381516
Bromobenzene	U		0.133	0.500	1	11/16/2019 04:33	WG1381516
Bromodichloromethane	U		0.0800	0.500	1	11/16/2019 04:33	WG1381516
Bromochloromethane	U		0.145	0.500	1	11/16/2019 04:33	WG1381516
Bromoform	U		0.186	0.500	1	11/16/2019 04:33	WG1381516
Bromomethane	U		0.157	2.50	1	11/19/2019 18:04	WG1382748
n-Butylbenzene	U		0.143	0.500	1	11/16/2019 04:33	WG1381516
sec-Butylbenzene	U		0.134	0.500	1	11/16/2019 04:33	WG1381516
tert-Butylbenzene	U		0.183	0.500	1	11/16/2019 04:33	WG1381516
Carbon disulfide	0.597		0.101	0.500	1	11/16/2019 04:33	WG1381516
Carbon tetrachloride	U		0.159	0.500	1	11/16/2019 04:33	WG1381516
Chlorobenzene	U		0.140	0.500	1	11/16/2019 04:33	WG1381516
Chlorodibromomethane	U		0.128	0.500	1	11/16/2019 04:33	WG1381516
Chloroethane	U		0.141	2.50	1	11/16/2019 04:33	WG1381516
Chloroform	U		0.0860	0.500	1	11/16/2019 04:33	WG1381516
Chloromethane	U		0.153	1.25	1	11/16/2019 04:33	WG1381516
2-Chlorotoluene	U		0.111	0.500	1	11/16/2019 04:33	WG1381516

JC 1/6/2020

MW-183-110819

Collected date/time: 11/08/19 10:00

SAMPLE RESULTS - 03

L1159108

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l			ug/l	ug/l		date / time	
4-Chlorotoluene	U			0.0972	0.500	1	11/16/2019 04:33	WG1381516
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	11/16/2019 04:33	WG1381516
1,2-Dibromoethane	U			0.193	0.500	1	11/16/2019 04:33	WG1381516
Dibromomethane	U			0.117	0.500	1	11/16/2019 04:33	WG1381516
1,2-Dichlorobenzene	U			0.101	0.500	1	11/16/2019 04:33	WG1381516
1,3-Dichlorobenzene	U			0.130	0.500	1	11/16/2019 04:33	WG1381516
1,4-Dichlorobenzene	U			0.121	0.500	1	11/16/2019 04:33	WG1381516
Dichlorodifluoromethane	U			0.127	2.50	1	11/16/2019 04:33	WG1381516
1,1-Dichloroethane	U			0.114	0.500	1	11/16/2019 04:33	WG1381516
1,2-Dichloroethane	U			0.108	0.500	1	11/16/2019 04:33	WG1381516
1,1-Dichloroethene	U			0.188	0.500	1	11/16/2019 04:33	WG1381516
cis-1,2-Dichloroethene	59.9			0.0933	0.500	1	11/16/2019 04:33	WG1381516
trans-1,2-Dichloroethene	0.167		J	0.152	0.500	1	11/16/2019 04:33	WG1381516
1,2-Dichloropropane	U			0.190	0.500	1	11/16/2019 04:33	WG1381516
1,1-Dichloropropene	U			0.128	0.500	1	11/16/2019 04:33	WG1381516
1,3-Dichloropropane	U			0.147	1.00	1	11/16/2019 04:33	WG1381516
cis-1,3-Dichloropropene	U			0.0976	0.500	1	11/16/2019 04:33	WG1381516
trans-1,3-Dichloropropene	U			0.222	0.500	1	11/16/2019 04:33	WG1381516
trans-1,4-Dichloro-2-butene	U	UJ	J0	0.257	5.00	1	11/16/2019 04:33	WG1381516
2,2-Dichloropropane	U			0.0929	0.500	1	11/16/2019 04:33	WG1381516
Di-isopropyl ether	U			0.0924	0.500	1	11/16/2019 04:33	WG1381516
Ethylbenzene	U			0.158	0.500	1	11/16/2019 04:33	WG1381516
Hexachloro-1,3-butadiene	U			0.157	1.00	1	11/16/2019 04:33	WG1381516
2-Hexanone	U			0.757	5.00	1	11/16/2019 04:33	WG1381516
n-Hexane	U			0.305	5.00	1	11/16/2019 04:33	WG1381516
Iodomethane	U	UJ	J0	0.377	10.0	1	11/16/2019 04:33	WG1381516
Isopropylbenzene	U			0.126	0.500	1	11/16/2019 04:33	WG1381516
p-Isopropyltoluene	U			0.138	0.500	1	11/16/2019 04:33	WG1381516
2-Butanone (MEK)	U			1.28	5.00	1	11/16/2019 04:33	WG1381516
Methylene Chloride	U			1.07	2.50	1	11/16/2019 04:33	WG1381516
4-Methyl-2-pentanone (MIBK)	U			0.823	5.00	1	11/16/2019 04:33	WG1381516
Methyl tert-butyl ether	U			0.102	0.500	1	11/16/2019 04:33	WG1381516
Naphthalene	U			0.174	2.50	1	11/16/2019 04:33	WG1381516
n-Propylbenzene	U			0.162	0.500	1	11/16/2019 04:33	WG1381516
Styrene	U			0.117	0.500	1	11/16/2019 04:33	WG1381516
1,1,1,2-Tetrachloroethane	U			0.120	0.500	1	11/16/2019 04:33	WG1381516
1,1,2,2-Tetrachloroethane	U			0.130	0.500	1	11/16/2019 04:33	WG1381516
1,1,2-Trichlorotrifluoroethane	U			0.164	0.500	1	11/16/2019 04:33	WG1381516
Tetrachloroethene	U			0.199	0.500	1	11/19/2019 18:04	WG1382748
Toluene	0.459		J	0.412	0.500	1	11/16/2019 04:33	WG1381516
1,2,3-Trichlorobenzene	U			0.164	0.500	1	11/16/2019 04:33	WG1381516
1,2,4-Trichlorobenzene	U			0.355	0.500	1	11/16/2019 04:33	WG1381516
1,1,1-Trichloroethane	U			0.0940	0.500	1	11/16/2019 04:33	WG1381516
1,1,2-Trichloroethane	U			0.186	0.500	1	11/16/2019 04:33	WG1381516
Trichloroethene	0.193		J	0.153	0.500	1	11/19/2019 18:04	WG1382748
Trichlorofluoromethane	U			0.130	2.50	1	11/16/2019 04:33	WG1381516
1,2,3-Trichloropropane	U	UJ	J0	0.247	2.50	1	11/19/2019 18:04	WG1382748
1,2,4-Trimethylbenzene	U			0.123	0.500	1	11/16/2019 04:33	WG1381516
1,2,3-Trimethylbenzene	U			0.0739	0.500	1	11/16/2019 04:33	WG1381516
1,3,5-Trimethylbenzene	U			0.124	0.500	1	11/16/2019 04:33	WG1381516
Vinyl acetate	U			0.645	5.00	1	11/16/2019 04:33	WG1381516
Vinyl chloride	4.29			0.118	0.500	1	11/16/2019 04:33	WG1381516
Xylenes, Total	U			0.316	1.50	1	11/16/2019 04:33	WG1381516
(S) Toluene-d8	*96.6*				*80.0-120*		*11/16/2019 04:33*	WG1381516
(S) Toluene-d8	*111*				*80.0-120*		*11/19/2019 18:04*	WG1382748
(S) 4-Bromofluorobenzene	*97.4*				*77.0-126*		*11/16/2019 04:33*	WG1381516

JC 1/6/2020

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*11/19/2019 18:04*	WG1382748
(S) 1,2-Dichloroethane-d4	*105*			*80.0-125*		*11/13/2019 23:19*	WG1380039
(S) 4-Bromofluorobenzene	*102*			*75.0-120*		*11/13/2019 23:19*	WG1380039
(S) Toluene-d8	*97.6*			*80.0-120*		*11/13/2019 23:19*	WG1380039
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*11/16/2019 04:33*	WG1381516
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*11/19/2019 18:04*	WG1382748

JC 1/6/2020

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	605000		2710	20000	1	11/16/2019 12:10	WG1381472

Sample Narrative:

L1159108-04 WG1381472: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	161000		260	5000	5	11/09/2019 19:25	WG1377890
Nitrate	U		22.7	100	1	11/09/2019 19:12	WG1377890
Sulfate	392	B J	77.4	5000	1	11/09/2019 19:12	WG1377890

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	26500		102	1000	1	11/13/2019 20:27	WG1379453

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3390		15.0	100	1	11/16/2019 10:52	WG1379539
Manganese	1020		0.250	5.00	1	11/16/2019 10:52	WG1379539

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	14300		2.87	6.78	10	11/15/2019 11:16	WG1380940
Ethane	18.5		0.296	1.29	1	11/14/2019 14:32	WG1380294
Ethene	2870		0.422	1.27	1	11/14/2019 14:32	WG1380294

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	18.6 U	~~J~~	1.05	25.0	1	11/16/2019 04:53	WG1381516	JC 1/6/2020
Gasoline Range Organics-NWTPH	23900	J+	623	2500	25	11/14/2019 00:00	WG1380039	
Acrylonitrile	U		0.873	5.00	1	11/16/2019 04:53	WG1381516	
Benzene	0.486	J	0.0896	0.500	1	11/16/2019 04:53	WG1381516	
Bromobenzene	U		0.133	0.500	1	11/16/2019 04:53	WG1381516	
Bromodichloromethane	U		0.0800	0.500	1	11/16/2019 04:53	WG1381516	
Bromochloromethane	U		0.145	0.500	1	11/16/2019 04:53	WG1381516	
Bromoform	U		0.186	0.500	1	11/16/2019 04:53	WG1381516	
Bromomethane	U		78.5	1250	500	11/19/2019 18:24	WG1382748	
n-Butylbenzene	U		0.143	0.500	1	11/16/2019 04:53	WG1381516	
sec-Butylbenzene	U		0.134	0.500	1	11/16/2019 04:53	WG1381516	
tert-Butylbenzene	U		0.183	0.500	1	11/16/2019 04:53	WG1381516	
Carbon disulfide	3.91	J	0.101	0.500	1	11/16/2019 04:53	WG1381516	
Carbon tetrachloride	U		0.159	0.500	1	11/16/2019 04:53	WG1381516	
Chlorobenzene	U		0.140	0.500	1	11/16/2019 04:53	WG1381516	
Chlorodibromomethane	U		0.128	0.500	1	11/16/2019 04:53	WG1381516	
Chloroethane	U		0.141	2.50	1	11/16/2019 04:53	WG1381516	
Chloroform	U		0.0860	0.500	1	11/16/2019 04:53	WG1381516	
Chloromethane	U		0.153	1.25	1	11/16/2019 04:53	WG1381516	
2-Chlorotoluene	U		0.111	0.500	1	11/16/2019 04:53	WG1381516	JC 1/6/2020

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
4-Chlorotoluene	U		0.0972	0.500	1	11/16/2019 04:53	WG1381516
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/16/2019 04:53	WG1381516
1,2-Dibromoethane	U		0.193	0.500	1	11/16/2019 04:53	WG1381516
Dibromomethane	U		0.117	0.500	1	11/16/2019 04:53	WG1381516
1,2-Dichlorobenzene	U		0.101	0.500	1	11/16/2019 04:53	WG1381516
1,3-Dichlorobenzene	U		0.130	0.500	1	11/16/2019 04:53	WG1381516
1,4-Dichlorobenzene	U		0.121	0.500	1	11/16/2019 04:53	WG1381516
Dichlorodifluoromethane	U		0.127	2.50	1	11/16/2019 04:53	WG1381516
1,1-Dichloroethane	U		0.114	0.500	1	11/16/2019 04:53	WG1381516
1,2-Dichloroethane	U		0.108	0.500	1	11/16/2019 04:53	WG1381516
1,1-Dichloroethene	116		0.188	0.500	1	11/16/2019 04:53	WG1381516
cis-1,2-Dichloroethene	30800		46.7	250	500	11/19/2019 18:24	WG1382748
trans-1,2-Dichloroethene	200	J	76.0	250	500	11/19/2019 18:24	WG1382748
1,2-Dichloropropane	U		0.190	0.500	1	11/16/2019 04:53	WG1381516
1,1-Dichloropropene	U		0.128	0.500	1	11/16/2019 04:53	WG1381516
1,3-Dichloropropane	U		0.147	1.00	1	11/16/2019 04:53	WG1381516
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/16/2019 04:53	WG1381516
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/16/2019 04:53	WG1381516
trans-1,4-Dichloro-2-butene	U	UJ J0	0.257	5.00	1	11/16/2019 04:53	WG1381516
2,2-Dichloropropane	U		0.0929	0.500	1	11/16/2019 04:53	WG1381516
Di-isopropyl ether	U		0.0924	0.500	1	11/16/2019 04:53	WG1381516
Ethylbenzene	U		0.158	0.500	1	11/16/2019 04:53	WG1381516
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/16/2019 04:53	WG1381516
2-Hexanone	U		0.757	5.00	1	11/16/2019 04:53	WG1381516
n-Hexane	U		0.305	5.00	1	11/16/2019 04:53	WG1381516
Iodomethane	U	UJ J0	0.377	10.0	1	11/16/2019 04:53	WG1381516
Isopropylbenzene	U		0.126	0.500	1	11/16/2019 04:53	WG1381516
p-Isopropyltoluene	U		0.138	0.500	1	11/16/2019 04:53	WG1381516
2-Butanone (MEK)	U		1.28	5.00	1	11/16/2019 04:53	WG1381516
Methylene Chloride	U		1.07	2.50	1	11/16/2019 04:53	WG1381516
4-Methyl-2-pentanone (MIBK)	1.11	J	0.823	5.00	1	11/16/2019 04:53	WG1381516
Methyl tert-butyl ether	U		0.102	0.500	1	11/16/2019 04:53	WG1381516
Naphthalene	U		0.174	2.50	1	11/16/2019 04:53	WG1381516
n-Propylbenzene	U		0.162	0.500	1	11/16/2019 04:53	WG1381516
Styrene	U		0.117	0.500	1	11/16/2019 04:53	WG1381516
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/16/2019 04:53	WG1381516
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/16/2019 04:53	WG1381516
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/16/2019 04:53	WG1381516
Tetrachloroethene	U		99.5	250	500	11/19/2019 18:24	WG1382748
Toluene	0.455	J	0.412	0.500	1	11/16/2019 04:53	WG1381516
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/16/2019 04:53	WG1381516
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/16/2019 04:53	WG1381516
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/16/2019 04:53	WG1381516
1,1,2-Trichloroethane	U		0.186	0.500	1	11/16/2019 04:53	WG1381516
Trichloroethene	U		76.5	250	500	11/19/2019 18:24	WG1382748
Trichlorofluoromethane	U		0.130	2.50	1	11/16/2019 04:53	WG1381516
1,2,3-Trichloropropane	U	UJ J0	123	1250	500	11/19/2019 18:24	WG1382748
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/16/2019 04:53	WG1381516
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/16/2019 04:53	WG1381516
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/16/2019 04:53	WG1381516
Vinyl acetate	U		0.645	5.00	1	11/16/2019 04:53	WG1381516
Vinyl chloride	10700		59.0	250	500	11/19/2019 18:24	WG1382748
Xylenes, Total	U		0.316	1.50	1	11/16/2019 04:53	WG1381516
(S) Toluene-d8	*98.1*			*80.0-120*		*11/16/2019 04:53*	WG1381516
(S) Toluene-d8	*110*			*80.0-120*		*11/19/2019 18:24*	WG1382748
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*		*11/16/2019 04:53*	WG1381516

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Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*11/19/2019 18:24*	WG1382748
(S) 1,2-Dichloroethane-d4	*107*			*80.0-125*		*11/14/2019 00:00*	WG1380039
(S) 4-Bromofluorobenzene	*102*			*75.0-120*		*11/14/2019 00:00*	WG1380039
(S) Toluene-d8	*97.4*			*80.0-120*		*11/14/2019 00:00*	WG1380039
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*11/16/2019 04:53*	WG1381516
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*11/19/2019 18:24*	WG1382748

Sample Narrative:

L1159108-04 WG1381516, WG1382748: Not all compounds reportable at lower dilution.

L1159108-04 WG1381516, WG1382748: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	1610000		2710	20000	1	11/16/2019 12:17	WG1381472

Sample Narrative:

L1159108-05 WG1381472: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	146000		260	5000	5	11/09/2019 19:51	WG1377890
Nitrate	38.9	J	22.7	100	1	11/09/2019 19:38	WG1377890
Sulfate	3440	J	77.4	5000	1	11/09/2019 19:38	WG1377890

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	198000		510	5000	5	11/13/2019 20:41	WG1379453

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	86800		15.0	100	1	11/16/2019 10:56	WG1379539
Manganese	7640		0.250	5.00	1	11/16/2019 10:56	WG1379539

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	12600		2.87	6.78	10	11/15/2019 11:19	WG1380940
Ethane	22.2		0.296	1.29	1	11/14/2019 14:38	WG1380294
Ethene	4150		0.422	1.27	1	11/14/2019 14:38	WG1380294

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Acetone	56.6		1.05	25.0	1	11/16/2019 05:14	WG1381516	
Gasoline Range Organics-NWTPH	14100	J+	249	1000	10	11/14/2019 00:21	WG1380039	
Acrylonitrile	U		0.873	5.00	1	11/16/2019 05:14	WG1381516	
Benzene	U		0.0896	0.500	1	11/16/2019 05:14	WG1381516	
Bromobenzene	U		0.133	0.500	1	11/16/2019 05:14	WG1381516	
Bromodichloromethane	U		0.0800	0.500	1	11/16/2019 05:14	WG1381516	
Bromochloromethane	U		0.145	0.500	1	11/16/2019 05:14	WG1381516	
Bromoform	U		0.186	0.500	1	11/16/2019 05:14	WG1381516	
Bromomethane	U		78.5	1250	500	11/19/2019 18:45	WG1382748	
n-Butylbenzene	U		0.143	0.500	1	11/16/2019 05:14	WG1381516	
sec-Butylbenzene	U		0.134	0.500	1	11/16/2019 05:14	WG1381516	
tert-Butylbenzene	U		0.183	0.500	1	11/16/2019 05:14	WG1381516	
Carbon disulfide	2.06		0.101	0.500	1	11/16/2019 05:14	WG1381516	
Carbon tetrachloride	U		0.159	0.500	1	11/16/2019 05:14	WG1381516	
Chlorobenzene	U		0.140	0.500	1	11/16/2019 05:14	WG1381516	
Chlorodibromomethane	U		0.128	0.500	1	11/16/2019 05:14	WG1381516	
Chloroethane	U		0.141	2.50	1	11/16/2019 05:14	WG1381516	
Chloroform	U		0.0860	0.500	1	11/16/2019 05:14	WG1381516	JC 1/6/2020
Chloromethane	U		0.153	1.25	1	11/16/2019 05:14	WG1381516	
2-Chlorotoluene	U		0.111	0.500	1	11/16/2019 05:14	WG1381516	

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
4-Chlorotoluene	U		0.0972	0.500	1	11/16/2019 05:14	WG1381516
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/16/2019 05:14	WG1381516
1,2-Dibromoethane	U		0.193	0.500	1	11/16/2019 05:14	WG1381516
Dibromomethane	U		0.117	0.500	1	11/16/2019 05:14	WG1381516
1,2-Dichlorobenzene	U		0.101	0.500	1	11/16/2019 05:14	WG1381516
1,3-Dichlorobenzene	U		0.130	0.500	1	11/16/2019 05:14	WG1381516
1,4-Dichlorobenzene	U		0.121	0.500	1	11/16/2019 05:14	WG1381516
Dichlorodifluoromethane	U		0.127	2.50	1	11/16/2019 05:14	WG1381516
1,1-Dichloroethane	U		0.114	0.500	1	11/16/2019 05:14	WG1381516
1,2-Dichloroethane	U		0.108	0.500	1	11/16/2019 05:14	WG1381516
1,1-Dichloroethene	15.0		0.188	0.500	1	11/16/2019 05:14	WG1381516
cis-1,2-Dichloroethene	19200		46.7	250	500	11/19/2019 18:45	WG1382748
trans-1,2-Dichloroethene	89.4	J	76.0	250	500	11/19/2019 18:45	WG1382748
1,2-Dichloropropane	U		0.190	0.500	1	11/16/2019 05:14	WG1381516
1,1-Dichloropropene	U		0.128	0.500	1	11/16/2019 05:14	WG1381516
1,3-Dichloropropane	U		0.147	1.00	1	11/16/2019 05:14	WG1381516
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/16/2019 05:14	WG1381516
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/16/2019 05:14	WG1381516
trans-1,4-Dichloro-2-butene	U UJ	J0	0.257	5.00	1	11/16/2019 05:14	WG1381516
2,2-Dichloropropane	U		0.0929	0.500	1	11/16/2019 05:14	WG1381516
Di-isopropyl ether	U		0.0924	0.500	1	11/16/2019 05:14	WG1381516
Ethylbenzene	0.344	J	0.158	0.500	1	11/16/2019 05:14	WG1381516
Hexachloro-1,3-butadiene	U		0.157	1.00	1	11/16/2019 05:14	WG1381516
2-Hexanone	1.26	J	0.757	5.00	1	11/16/2019 05:14	WG1381516
n-Hexane	U		0.305	5.00	1	11/16/2019 05:14	WG1381516
Iodomethane	U UJ	J0	0.377	10.0	1	11/16/2019 05:14	WG1381516
Isopropylbenzene	U		0.126	0.500	1	11/16/2019 05:14	WG1381516
p-Isopropyltoluene	U		0.138	0.500	1	11/16/2019 05:14	WG1381516
2-Butanone (MEK)	88.9		1.28	5.00	1	11/16/2019 05:14	WG1381516
Methylene Chloride	U		1.07	2.50	1	11/16/2019 05:14	WG1381516
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/16/2019 05:14	WG1381516
Methyl tert-butyl ether	U		0.102	0.500	1	11/16/2019 05:14	WG1381516
Naphthalene	0.215	J	0.174	2.50	1	11/16/2019 05:14	WG1381516
n-Propylbenzene	U		0.162	0.500	1	11/16/2019 05:14	WG1381516
Styrene	U		0.117	0.500	1	11/16/2019 05:14	WG1381516
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/16/2019 05:14	WG1381516
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/16/2019 05:14	WG1381516
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/16/2019 05:14	WG1381516
Tetrachloroethene	1570		99.5	250	500	11/19/2019 18:45	WG1382748
Toluene	0.519		0.412	0.500	1	11/16/2019 05:14	WG1381516
1,2,3-Trichlorobenzene	U		0.164	0.500	1	11/16/2019 05:14	WG1381516
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/16/2019 05:14	WG1381516
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/16/2019 05:14	WG1381516
1,1,2-Trichloroethane	U		0.186	0.500	1	11/16/2019 05:14	WG1381516
Trichloroethene	794		76.5	250	500	11/19/2019 18:45	WG1382748
Trichlorofluoromethane	U		0.130	2.50	1	11/16/2019 05:14	WG1381516
1,2,3-Trichloropropane	U UJ	J0	123	1250	500	11/19/2019 18:45	WG1382748
1,2,4-Trimethylbenzene	0.326	J	0.123	0.500	1	11/16/2019 05:14	WG1381516
1,2,3-Trimethylbenzene	0.506		0.0739	0.500	1	11/16/2019 05:14	WG1381516
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/16/2019 05:14	WG1381516
Vinyl acetate	U		0.645	5.00	1	11/16/2019 05:14	WG1381516
Vinyl chloride	1560		59.0	250	500	11/19/2019 18:45	WG1382748
Xylenes, Total	0.573	J	0.316	1.50	1	11/16/2019 05:14	WG1381516
(S) Toluene-d8	*97.8*			*80.0-120*		*11/16/2019 05:14*	WG1381516
(S) Toluene-d8	*109*			*80.0-120*		*11/19/2019 18:45*	WG1382748
(S) 4-Bromofluorobenzene	*96.6*			*77.0-126*		*11/16/2019 05:14*	WG1381516

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Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*11/19/2019 18:45*	WG1382748
(S) 1,2-Dichloroethane-d4	*105*			*80.0-125*		*11/14/2019 00:21*	WG1380039
(S) 4-Bromofluorobenzene	*101*			*75.0-120*		*11/14/2019 00:21*	WG1380039
(S) Toluene-d8	*96.5*			*80.0-120*		*11/14/2019 00:21*	WG1380039
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*11/16/2019 05:14*	WG1381516
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*11/19/2019 18:45*	WG1382748

Sample Narrative:

L1159108-05 WG1381516, WG1382748: Not all compounds reportable at lower dilution.

L1159108-05 WG1381516, WG1382748: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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