



October 23, 2019

**1413.001.05**

Washington Department of Ecology  
Northwest Regional Office Toxics Control Program  
3190 – 160th Ave. SE  
Bellevue, WA 98008-5452  
Attn: Ms. Tamara Cardona

**BY EMAIL ONLY**

**GROUNDWATER AND SOIL VAPOR DATA SUMMARY, THIRD QUARTER 2019  
AMERICAN LINEN SUPPLY CO-DEXTER AVE SITE  
AGREED ORDER NO. DE 14302**

Dear Ms. Cardona:

PES Environmental, Inc. (“PES”) has prepared this data submittal on behalf of BMR-Dexter LLC (“BMRD”) for the American Linen Supply Co–Dexter Avenue Site (the “Site”) located at 700 Dexter Avenue North, Seattle, Washington. This submittal documents the third quarter 2019 sampling of interim action performance monitoring wells at the 700 Dexter Avenue North property (the “Property”). Consistent with the Final Interim Action Work Plan (“IAWP”)<sup>1</sup> and the Final Contingent Action Addendum (“CAA”) to the Final IAWP<sup>2</sup>, PES measured groundwater levels, collected groundwater samples, and collected soil vapor samples during the quarter to document the chlorinated volatile organic compound (“CVOC”) concentrations in groundwater and soil vapor during implementation of the interim action. This technical memorandum summarizes the procedures and results of the third quarter monitoring event.

Interim action and construction activities were being performed on the Property concurrently with the groundwater monitoring event. The construction activities were related to the installation of the shoring system required for the soil excavation, and included installation tie-backs and lagging, installation of dewatering wells, in-place treatment of contaminated soil prior to excavation, mass soil excavation, and exportation of soil generated during construction activities. Active construction dewatering was not occurring during the third quarter 2019 monitoring event.

**GROUNDWATER MONITORING PROCEDURES**

PES measured one round of groundwater levels in all available monitoring wells at the Site on July 16, 2019. In addition, PES collected groundwater samples from 45 monitoring wells outside of

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<sup>1</sup> PES Environmental, Inc. 2018. *Final Interim Action Work Plan, American Linen Supply Co-Dexter Avenue Site, 700 Dexter Avenue North, Seattle, Washington*. Prepared for BMR-Dexter LLC. August.

<sup>2</sup> PES Environmental, Inc. 2019. Letter from D. Balbiani and B. O’Neal to T. Cardona (Ecology) re: *Final Contingent Action Addendum to the Final Interim Action Work Plan, Former American Linen Supply Co-Dexter Ave Site, Agreed Order No. DE 14302*. February 14.

the Property between July 15 and August 1, 2019, including nine Shallow Zone wells, 13 Intermediate A Zone wells, nine Intermediate B Zone wells, and 14 Deep Zone wells. All monitoring wells on the Property were decommissioned after they were sampled in March 2019. Figures 1 and 2 show the well and soil vapor probe locations. The wells and probes sampled were consistent with the performance monitoring wells specified in the IAWP and CAA, except for the following:

- Deep Zone monitoring well FMW-131 (located at 630 Westlake Avenue North) was covered by a portable office building and could not be sampled; and
- Shallow Zone monitoring well R-MW6 was dry and was not sampled.

PES used an electronic water level probe to measure depth to groundwater in the wells, and either a peristaltic or bladder pump to purge and sample the wells. Wells were purged at pumping rates of 200 mL/min or less. One primary groundwater sample was collected from each monitoring well, with duplicate samples collected from MW-146, MW-147, and SCS-2. Two equipment rinsate blanks and eight trip blanks were also collected. All samples were shipped to Pace Analytical in Mount Juliet, Tennessee, for analysis of VOCs by Environmental Protection Agency (“EPA”) Method 8260C. Groundwater samples from wells near the Property were also analyzed for gasoline-range organics (“GRO”) by Washington State Department of Ecology (“Ecology”) Method NWTPH-Gx, and groundwater samples from a subset of wells across the Site were also analyzed for geochemical parameters as described in the Final IAWP and CAA. Groundwater sampling, sample analysis, and health and safety procedures were performed consistent with the Sampling and Analysis Plan, Quality Assurance/Quality Control Plan, and Health and Safety Plan provided in the Final IAWP.

## VAPOR PROBE SAMPLING PROCEDURES

PES collected soil vapor samples on July 17, 2019, from two soil vapor probes (SV01 and SV02) located on the east side of 8<sup>th</sup> Avenue North across from the Property (Figure 1). PES unsuccessfully attempted to collect a soil vapor sample from soil vapor probe SV03 (located on the east side of 8<sup>th</sup> Avenue, south of SV02) on July 17 and two subsequent dates. PES suspects SV03 has an obstruction plugging the probe screen. The soil vapor samples were collected in the vadose zone just above the groundwater capillary fringe, at depths ranging from 11.75 to 12.75 feet below ground surface (bgs), and analyzed for VOCs, including tetrachloroethene (“PCE”), trichloroethene (“TCE”), cis-1,2-dichloroethene (“cDCE”), trans-1,2-dichloroethene (“tDCE”), and vinyl chloride (“VC”). Soil vapor sampling, sample analysis, and health and safety procedures were performed consistent with the Sampling and Analysis Plan, Quality Assurance/Quality Control Plan, and Health and Safety Plan provided in the Final IAWP.

## RESULTS

**Groundwater Elevations and Flow Directions.** Table 1 provides the July 16, 2019, depth to groundwater measurements and calculated groundwater elevations. Depth to groundwater varied from 7.9 feet bgs in SCL-MW101 to 39.8 feet bgs in MW-138, and groundwater elevations (relative to NAVD 88) ranged from 17.1 feet in MW-153 to 32.0 feet in R-MW5.

Figure 3 presents groundwater contours for the Shallow, Intermediate A, Intermediate B, and Deep Zones using data measured on July 16, 2019. The groundwater flow direction in the Shallow Zone was primarily to the east-northeast, similar to the April 2019 groundwater level event. The general groundwater flow direction in the Intermediate A and B Zones was to the east and southeast, with a component of flow in the Intermediate B Zone to the southwest near the southwest corner of the Property. The groundwater flow direction in the Deep Zone was westward to the west of the alley between 8<sup>th</sup> and 9<sup>th</sup> Avenues North, and southeasterly to the east of 9<sup>th</sup> Avenue North. In locations with co-located wells in different zones, the vertical gradient was generally downward (e.g., at the MW121/MW-142/MW-143 well nest). Comparing the March 2017, March 2019, and April 2019 groundwater elevation contours for the Shallow, Intermediate A, and Deep Zones indicates that the interim action activities had not significantly affected groundwater flow across the Site in these zones through the second quarter of 2019. The July 2019 monitoring results show a decline in groundwater elevations in Shallow and Intermediate A Zone wells near the Property (e.g., MW121, MW107, MW-146, and MW-156), which indicates that the construction/interim action activities (i.e., mass soil excavation) have likely affected groundwater levels and groundwater flow adjacent to the Property. Groundwater elevation contours for the Intermediate B Zone were not prepared for March 2017, so a direct comparison between the March 2017 and 2019 Intermediate B Zone events cannot be made.

**Groundwater Analytical Results.** Tables 2 through 6 provide the groundwater results for all wells monitored historically at the Site. Table 2 presents the field parameter measurements. Tables 3, 4, and 5 provide the results for GRO; benzene, toluene, ethylbenzene, and total xylenes (“BTEX”); and PCE, TCE, cDCE, tDCE, and VC in the Shallow, Intermediate, and Deep Zones, respectively. Table 6 presents the geochemical parameter results. Attachment A presents time-trend plots for the primary CVOCs (PCE, TCE, cDCE, and VC) in wells sampled historically at the Site. In the third quarter sampling event, the analytical laboratory reported all sample results to the method detection limit (“MDL”) to provide VC detection limits below the VC screening level. PES has reviewed the third quarter analytical reports to evaluate the laboratory’s performance in meeting EPA’s quality control criteria, and has added data qualifiers as necessary. Attachment B provides the analytical laboratory reports and data validation memorandum. The data collected in the third quarter have been uploaded to Ecology’s Environmental Information Management database.

In the nine sampled Shallow Zone wells, toluene, total xylenes, cDCE, and tDCE were not detected above their respective screening levels in the third quarter 2019 sampling event. GRO, benzene, and ethylbenzene were detected above their respective screening levels in SCS-2. PCE, TCE, and VC were detected above their respective screening levels in MW-154 and MW-155, and VC was detected above its screening level in MW-9, MW121, MW-159, and SCS-2. MW-8, MW125, and R-MW5 did not have detections of these petroleum hydrocarbons or CVOCs above the screening levels.

In the 14 sampled Intermediate A Zone wells, toluene, ethylbenzene, total xylenes, and tDCE were not detected above their respective screening levels in the third quarter 2019 sampling event. Benzene was detected once above the screening level (MW108), and PCE, TCE, cDCE, and VC were detected above the screening levels in multiple wells. Following are the highest detected concentrations of the primary CVOCs:

- PCE: 1,220 micrograms per liter (µg/L) in MW110;

- TCE: 1,270 µg/L in MW-156;
- cDCE: 2,310 µg/L in MW-156; and
- VC: 580J µg/L in MW-146.

GEI-1 and MW116 did not have detections of GRO, BTEX, or the five primary CVOCs above the MDLs.

In the nine sampled Intermediate B Zone wells, BTEX, PCE, and tDCE were not detected above their respective screening levels in the third quarter 2019 sampling event. TCE, cDCE, and VC were detected above the screening levels in multiple wells. Following are the highest detected concentrations of the primary CVOCs:

- TCE: 27.6 µg/L in MW-157;
- cDCE: 4,530 µg/L in MW-157; and
- VC: 666 µg/L in MW-157.

MW112 and MW126 did not have detections of GRO, BTEX, or the five primary CVOCs above the MDLs.

In the 14 sampled Deep Zone wells, toluene, ethylbenzene, total xylenes, and tDCE were not detected above their respective screening levels in the third quarter 2019 sampling event. Benzene was detected once above the screening level (MW128), and PCE, TCE, cDCE, and VC were detected above the screening levels in multiple wells. Following are the highest detected concentrations of the primary CVOCs:

- PCE: 159 µg/L in FMW-129;
- TCE: 84.1 µg/L in FMW-129;
- cDCE: 4,940 µg/L in MW113; and
- VC: 108 µg/L in MW128.

MW102, MW106, and MW-138 did not have detections of GRO, BTEX or the five primary CVOCs above the MDLs.

GRO was also detected in groundwater samples at concentrations exceeding the screening level (Tables 4 and 5); most of these were qualified, however, as a result of the data quality review. A data validation review of the laboratory reports indicated that the GRO concentrations above the screening levels in three wells (MW113, MW-156, and MW-157) were likely biased high due to the presence of CVOCs in the samples. The data validation review of the laboratory reports also indicated that the GRO results below the screening levels in four wells (BB-8, MW107, MW120, and MW-147) were also biased high due to the presence of CVOCs in the samples. The only unqualified GRO result exceeding the GRO screening level was in SCS-2 (2,190 µg/L).

**Soil Vapor Analytical Results.** Table 7 provides the analytical results for PCE, TCE, cDCE, tDCE, and VC. In July 2019, PCE was detected below the screening level in SV02, and none of the

other CVOCs were detected above the laboratory reporting limit. PCE was previously detected in SV02 in March 2013. All other results are consistent with the September 2018, February 2019, and April 2019 results.

Please call if you have any questions or comments regarding information included in this data submittal.

Sincerely,  
**PES ENVIRONMENTAL, INC.**



Daniel A. Balbiani, P.E.  
Principal Engineer



William R. Haldeman

William R. Haldeman, LHG, R.G.  
Associate Hydrogeologist

cc: John Moshy, BMRD

Attachments

- Table 1 – Summary of Groundwater Elevations, July 16, 2019
- Table 2 – Groundwater Field Parameters
- Table 3 – Groundwater Analytical Data, Shallow Zone Wells
- Table 4 – Groundwater Analytical Data, Intermediate Zone Wells
- Table 5 – Groundwater Analytical Data, Deep Zone Wells
- Table 6 – Groundwater Geochemical Parameters
- Table 7 – Soil Vapor Analytical Results
  
- Figure 1 – Site-Wide Exploration Location Map
- Figure 2 – Groundwater Elevation Contours, July 16, 2019
  
- Attachment A – CVOC Time-Trend Plots
- Attachment B – Laboratory Reports and Data Validation Memorandum

Table 1

**Summary of Groundwater Elevations, July 16, 2019**  
**Former American Linen Supply**  
**700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Screen Interval (ft below TOC)	Top of Casing Elevation (feet)	Depth to Groundwater <sup>a</sup>	Groundwater Elevation <sup>b</sup>
<b>Shallow Zone</b>					
MW-8	800 Aloha Street Parcel	4.5 to 19	33.19	11.97	21.22
MW-9	8th Avenue N ROW	7 to 22	40.81	15.27	25.54
MW121	8th Avenue N ROW	15 to 25	41.72	17.95	23.77
MW125	Valley Street ROW	15 to 30	43.55	18.30	25.25
MW-154	Roy Street ROW	25 to 35	52.57	27.03	25.54
MW-155	Roy Street ROW	20 to 30	44.05	20.94	23.11
MW-159	8th Avenue N ROW	20 to 30	42.79	20.55	22.24
MW214	Valley Street ROW	TD = 15	27.32	8.97	18.35
R-MW5	Dexter Avenue N ROW	15 to 30	57.03	25.25	31.78
R-MW6	Property	12 to 22	45.28	Not accessible	–
SCL-MW101	Alley E of 800 Aloha St	--	30.46	7.90	22.56
SCL-MW105	Alley E of 800 Aloha St	--	31.26	10.87	20.39
SCS-2	800 Aloha Street Parcel	Unknown	39.16	17.04	22.12
SMW-3	Valley Street ROW	Unknown	26.57	8.22	18.35
<b>Intermediate A Zone</b>					
BB-8	Roy Street ROW	30 to 40	43.69	20.41	23.28
GEI-1	Block 37	26.8 to 36.8	27.95	9.59	18.36
MW107	8th Avenue N ROW	35 to 45	43.82	21.75	22.07
MW108	Alley	40 to 50	32.78	13.84	18.94
MW109	Alley	35 to 45	34.97	16.23	18.74
MW110	Alley	35 to 45	39.67	20.83	18.84
MW115	9th Avenue N ROW	35 to 45	34.10	15.80	18.30
MW116	9th Avenue N ROW	35 to 45	31.34	12.80	18.54
MW119	9th Avenue N ROW	35 to 45	37.35	19.07	18.28
MW120	8th Avenue N ROW	40 to 50	40.00	17.55	22.45
MW-142	8th Avenue N ROW	40-50	42.12	20.13	21.99
MW-144	8th Avenue N ROW	40-50	43.50	Well damaged	–
MW-146	Roy Street ROW	40-50	52.34	30.04	22.30
MW-156	8th Avenue N ROW	40-50	41.24	19.32	21.92
<b>Intermediate B Zone</b>					
MW111	Alley	70 to 80	36.48	17.96	18.52
MW112	Dexter Avenue N ROW	75 to 85	57.45	37.13	20.32
MW126	Alley	85 to 95	30.94	12.92	18.02
W-MW-01	8th Avenue N ROW	70 to 80	44.88	Not accessible	–

Table 1

**Summary of Groundwater Elevations, July 16, 2019  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Screen Interval (ft below TOC)	Top of Casing Elevation (feet)	Depth to Groundwater <sup>a</sup>	Groundwater Elevation <sup>b</sup>
MW-143	8th Avenue N ROW	70-80	42.04	21.67	20.37
MW-145	8th Avenue N ROW	70 to 80	43.46	Well damaged	--
MW-147	Roy Street ROW	70 to 80	51.85	31.10	20.75
MW-148	Roy Street ROW	70 to 80	43.91	25.21	18.70
MW-157	8th Avenue N ROW	70 to 80	41.22	18.86	22.36
W-MW-02	8th Avenue N ROW	70 to 80	43.46	Not accessible	--
<b>Deep Zone</b>					
FMW-131	Block 37	63 to 73	27.85	Not accessible	--
GEI-2	Block 37	50.5 to 60.5	29.38	11.51	17.87
MW102	Valley Street ROW	115 to 125	49.19	31.80	17.39
MW103	Alley	103.5 to 113.5	35.92	16.85	19.07
MW104	8th Avenue N ROW	119 to 129	42.68	25.01	17.67
MW105	Roy Street ROW	130 to 140	44.17	26.25	17.92
MW106	SDOT Property S of Roy St	130 to 140	51.99	34.62	17.37
MW113	9th Avenue N ROW	70 to 80	32.90	14.57	18.33
MW122	Alley	105 to 119	30.03	11.93	18.10
MW123	Westlake Avenue N ROW	70 to 80	27.51	9.22	18.29
MW124	Valley Street ROW	110 to 120	56.24	38.87	17.37
MW128	Westlake Avenue N ROW	60 to 70	28.59	10.67	17.92
FMW-129	SDOT Property S of Roy St	84 to 89	38.31	20.24	18.07
MW-138	Dexter Ave N	105 to 115	57.06	39.82	17.24
MW-153	Roy Street ROW	120 to 130	54.35	37.27	17.08
MW-158A	8th Avenue N ROW	90 to 100	41.09	23.54	17.55
MW-160	8th Avenue N ROW	118 to 128	43.46	24.72	18.74
MW-161	8th Avenue N ROW	130 to 140	43.82	26.51	17.31
<b>NOTES:</b>					
<sup>a</sup> As measured in feet below a fixed spot on the well casing rim.					
<sup>b</sup> Calculated by subtracting the depth to groundwater from the casing elevation.					
-- = unknown					
ROW = right-of-way					
TOC = top of casing (PVC)					
TD = Total Depth					

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	pH	Specific Conductance (μS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)		
<b>Shallow Zone</b>											
F13	Property	03/27/17	6.80	756	15.4	3.4	0.86	-139	1.0		
		06/22/17	7.00	865	20.2	–	0.27	-148	1.5		
		04/05/18	6.84	491	16.6	–	0.50	67	–		
		Decommissioned March 2019									
F5	Property	03/28/17	6.05	1,001	10.9	5.8	0.99	-50.5	–		
		06/22/17	6.38	1,080	19.5	–	0.80	-87.1	–		
		Decommissioned March 2019									
F9	Property	03/27/17	6.69	1,270	16.6	3.1	0.74	-151	–		
		06/22/17	6.76	1,309	27.5	–	0.24	-149	–		
		Decommissioned March 2019									
G12	Property	03/27/17	7.34	1,296	20.7	–	0.41	150	1.25		
		06/30/17	6.88	1,239	29.1	–	1.30	-87	–		
		Decommissioned March 2019									
J5	Property	03/21/17	6.95	251	15.1	4.6	0.70	-114	0.6		
		06/26/17	6.94	484	19.8	–	0.42	-143	–		
		04/05/18	6.85	286	14.1	–	0.50	77	–		
		Decommissioned March 2019									
J15	Property	03/27/17	7.42	935	14.1	–	0.48	141	2.0		
		06/26/17	6.86	920	20.8	–	0.44	-99	1.5		
		04/05/18	6.83	716	18.1	–	0.40	103	–		
		Decommissioned March 2019									
K8	Property	03/21/17	7.70	251	18.3	-0.3	0.80	-121	0.0		
		06/26/17	7.76	257	22.3	–	0.25	-4	0.0		
		04/05/18	9.45	220	16.7	–	0.70	56	–		
		Decommissioned March 2019									
M15	Property	03/27/17	7.16	1,544	18.7	–	0.60	140	2.75		
		06/26/17	6.71	1,440	25.6	–	0.70	-84	–		
		04/05/18	6.90	1,034	18.0	–	0.40	86	–		
		Decommissioned March 2019									
MW121	8th Ave N ROW	12/26/13	6.89	1,610	–	–	4.16	-30	1.9		
		03/28/17	6.63	2,608	14.4	2.9	0.99	-122	2.0		
		06/20/17	8.29	2,437	19.9	–	0.52	-88	3.0		
		04/05/18	6.64	2,028	17.2	–	0.60	120	–		
		01/31/19	6.87	2,396	15.3	–	0.42	-3	–		
		04/29/19	6.75	2,521	18.1	–	0.30	9	–		
		07/19/19	6.38	2,017	18.8	–	0.46	-17	–		
MW125	Valley Street ROW	12/26/13	6.28	1,414	–	–	8.68	22	1.47		
		03/22/17	6.62	1,296	14.6	3.7	1.00	-116	–		
		06/28/17	6.71	984	17.1	–	1.91*	-101	–		
		04/06/18	6.89	831	17.5	–	0.30	-68	–		
		01/21/19	6.67	912	15.8	–	0.48	122	–		
		04/23/19	6.74	987	16.3	–	0.65	65	–		
		07/18/19	6.90	920	18.9	–	0.40	59	–		



Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	pH	Specific Conductance (μS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)
MW-154	Roy St ROW	04/30/18	7.26	469	16.3	–	0.40	72	–
		01/21/19	7.25	523	14.4	–	0.61	99	–
		04/24/19	7.09	459	18.6	–	0.48	103	–
		07/15/19	6.96	517	20.0	–	1.21	157	–
MW-155	Roy St ROW	04/27/18	6.79	479	13.3	–	3.20	94	–
		01/21/19	6.52	500	12.3	–	2.43	119	–
		04/23/19	6.51	663	14.7	–	1.80	41	0.00
		07/23/19	6.26	765	14.4	–	20.60	66	–
MW-159	8th Ave N ROW	04/26/18	6.92	928	18.9	–	0.70	109	–
		01/21/19	6.92	1,125	14.1	–	0.59	126	–
		04/26/19	6.83	1,279	14.5	–	0.54	79	–
		7/19/19	6.75	1,109	19.0	–	1.34	62	–
MW214 (dry)	Valley Street ROW	03/30/17	7.47	467	11.0	3.6	5.91	-70.1	–
		06/21/17	–	–	–	–	–	–	–
		04/09/18	8.94	380	13.7	–	8.00	401.2	–
MW-8 (dry)	800 Aloha Street Parcel	03/20/17	6.47	1,080	14.2	11.4	1.30	-4.0	–
		06/27/17	–	–	–	–	–	–	–
		04/13/18	5.99	540	13.1	–	0.80	261	–
		07/18/19	6.20	692	16.9	–	0.27	224	–
MW-9	8th Ave N ROW	12/16/13	6.72	132	–	–	0.20	263	3.41
		03/20/17	6.64	1,203	13.0	0.0	1.00	-109	–
		06/20/17	6.41	1,391	20.8	–	0.76	-93	–
		04/05/18	6.73	1,299	13.4	–	0.80	128	–
		01/21/19	6.63	1,179	12.5	–	0.71	143	–
		04/26/19	6.68	632	16.6	–	0.50	62	–
		07/16/19	6.70	1,060	17.4	–	0.22	-118	–
N7	Property	03/30/17	6.82	350	15.9	2.8	1.11	-73.8	0.0
		06/27/17	6.83	505	24.9	1.7	1.74*	-3.5	0.25
		Decommissioned March 2019							
R-MW2	Property	03/21/17	7.00	723	11.4	17.6	0.80	-161	–
		06/15/17	6.78	766	15.5	–	0.43	-161	–
		04/02/18	6.68	737	14.5	–	0.70	49	–
		Decommissioned March 2019							
R-MW3	Property	03/21/17	7.06	1,616	16.7	4.1	0.90	-38.7	–
		06/28/17	7.11	1,258	23.5	–	1.01	-131.6	–
		04/04/18	6.96	1,241	16.8	–	0.50	98.3	–
		Decommissioned March 2019							
R-MW5	8th Ave N ROW	03/23/17	6.12	537	17.1	–	0.80	-36.6	1.0
		06/16/17	5.85	516	17.6	–	1.12	-370.4	–
		04/11/18	9.57 <sup>(a)</sup>	504	15.5	–	0.50	213.2	–
		01/03/19	5.96	533	14.7	–	0.81	71.1	–
		04/22/19	6.14	410	15.9	–	0.54	100.2	–
		07/16/19	6.06	378	18.8	–	0.26	51.6	–

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)
R-MW6  (dry)	8th Ave N ROW	03/21/17	6.56	1,280	14.8	6.6	0.80	-38.5	–
		06/20/17	6.57	1,407	18.0	–	0.84	-55.5	1.5
		04/06/18	6.72	1,137	16.8	–	0.70	113.1	–
		01/25/19	6.75	1,055	14.9	–	0.33	-101.1	–
		04/25/19	6.77	1,295	17.5	–	0.40	18.0	–
		07/18/19	–	–	–	–	–	–	–
SCL-MW101	Alley Between 8th & 9th Ave N	03/28/17	7.34	834	11.8	–	0.35	118	–
		06/14/17	6.35	628	17.9	–	0.12	-49	–
		04/06/18	6.61	654	14.3	–	0.30	66	–
SCL-MW105	Alley Between 8th & 9th Ave N	03/28/17	7.19	1,049	12.6	–	0.50	136	–
		06/15/17	6.45	1,086	15.8	–	1.11	-95	–
		04/06/18	6.73	968	15.4	–	0.40	76	–
SCS-2	800 Aloha Street Parcel	03/20/17	6.50	947	13.0	1.6	1.00	-142	–
		06/12/17	6.41	761	17.3	–	0.59	-31	–
		04/13/18	10.72 <sup>(a)</sup>	199	10.5	–	0.80	215	–
		07/18/19	6.48	895	16.0	–	0.32	-97	–
SMW-3	Valley Street ROW	03/30/17	6.48	743	11.8	2.9	0.98	-85.7	–
		06/21/17	6.35	589	20.9	–	0.41	-57.3	–
		04/09/18	7.79 <sup>(a)</sup>	807	14.9	–	0.60	-17.8	–
<b>Intermediate A Zone</b>									
BB-8	Roy Street ROW	12/29/13	6.56	8,560	–	–	0.72	224	0.01
		03/22/17	6.74	621	14.6	-0.6	1.80	-22.9	0.0
		06/14/17	6.29	649	14.5	–	1.12	187.9	0.0
		04/11/18	6.96	512	14.5	–	0.70	84.9	0.0
		01/23/19	6.80	700	12.9	–	0.76	154.2	0.0
		04/23/19	6.94	649	14.2	–	1.28	33.8	0.0
		07/17/19	6.50	640	15.9	–	0.50	-5.5	0.0
GEI-1	Block 37	03/24/17	6.41	1,127	12.0	24.1	0.80	-103	1.0
		06/13/17	6.65	553	14.9	–	0.56	-38	–
		04/22/19	6.35	1,099	13.3	–	0.68	-46	–
		07/16/19	6.66	908	19.2	–	0.21	-105	3.0
MW107	8th Ave N ROW	12/16/13	6.62	900	–	–	1.14	22	0.43
		03/27/17	7.10	1,434	13.7	–	0.50	141	2.0
		06/19/17	6.24	1,434	22.5	–	0.77	-30	1.5
		04/09/18	6.73	1,193	18.4	–	0.30	49	4.0
		01/30/19	6.99	1,299	11.0	–	0.74	127	–
		05/01/19	6.85	1,216	16.9	–	0.33	24	2.0
		07/22/19	6.64	1,187	21.5	–	2.72	-9	1.4
MW108	Alley Between 8th & 9th Ave N	12/17/13	6.36	1,570	–	–	0.50	-72	21.7
		03/28/17	6.65	1,410	13.6	2.0	0.97	-99	2.5
		06/27/17	6.72	1,252	16.3	–	4.45*	-108	2.0
		04/06/18	6.69	1,026	14.6	–	0.60	136	–
		01/22/19	6.77	1,053	11.9	–	0.80	132	–
		04/29/19	6.61	1,296	14.4	–	0.42	-18	–
		07/15/19	6.55	1,217	17.7	–	0.78	-49	–

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
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Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)
MW109	Alley Between 8th & 9th Ave N	12/17/13	6.68	1,540	–	–	0.31	-78	16.2
		03/29/17	6.59	916	14.9	2.8	0.77	-115	1.5
		06/27/17	6.72	1,129	16.9	–	3.85*	-107	1.5
		04/06/18	6.71	1,112	14.3	–	0.50	136	–
		01/23/19	6.97	1,203	15.7	–	0.59	143	–
		04/29/19	6.52	1,128	14.2	–	0.45	40	–
		07/15/19	6.57	1,214	17.5	–	0.44	-29	–
MW110	Alley Between 8th & 9th Ave N	12/19/13	8.82	888	–	–	0.52	291	0.04
		03/23/17	6.66	1,109	13.1	0.4	1.05	-46.5	0.1
		06/27/17	7.13	1,010	17.2	–	1.42*	56.7	0.0
		04/09/18	6.22	895	16.1	–	0.70	431.4	–
		01/23/19	6.74	1,020	14.5	–	0.41	103.2	–
		04/26/19	6.67	998	16.7	–	0.49	135.0	–
		07/15/19	6.68	965	16.2	–	0.45	160.2	–
MW115	9th Ave N ROW	12/19/13	6.80	1,220	–	–	0.71	-61	6.69
		03/22/17	7.28	880	14.8	–	0.51	160	1.5
		06/22/17	6.85	778	20.2	–	0.39	-102	1.5
		04/11/18	6.91	860	13.1	–	0.40	89	–
		01/30/19	7.03	912	12.7	–	0.57	116	–
		07/17/19	6.68	935	16.4	–	0.37	34	–
MW116	9th Ave N ROW	12/19/13	6.84	498	–	–	0.67	75	2.65
		03/21/17	7.05	814	13.3	6.2	0.80	-127	3.9
		06/16/17	6.86	749	18.7	–	0.41	-641	1.8
		04/11/18	7.11	830	13.3	–	0.40	75	–
		01/30/19	7.09	771	15.5	–	0.65	-122	2.0
		07/17/19	6.89	822	16.6	–	0.42	40	–
MW119	9th Ave N ROW	12/19/13	9.56	579	–	–	0.34	295	18.6
		03/29/17	6.41	631	13.4	2.4	0.85	-90.7	2.0
		06/28/17	6.29	676	17.4	–	4.88*	11.0	1.5
		04/05/18	6.30	517	13.1	–	0.60	119.1	–
		01/21/19	6.76	67	12.6	–	6.76	114.4	–
		04/29/19	6.33	652	15.1	–	0.42	-2.7	–
		07/19/19	6.34	26	16.7	–	0.61	0.7	–
MW120	8th Ave N ROW	12/19/13	6.63	743	–	–	1.30	-13	0.17
		03/28/17	7.93	622	9.5	–	0.75	123	–
		06/28/17	6.60	568	17.8	–	1.33*	91	–
		04/09/18	6.96	423	15.1	–	0.40	37	0.00
		01/24/19	6.66	649	14.0	–	0.73	110	–
		05/03/19	6.46	533	14.6	–	0.36	253	–
		07/16/19	6.31	632	17.7	–	0.66	120	0.00
MW127	8th Ave N ROW	08/01/19	6.95	440	17.2	–	0.34	164	–

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
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Sample Location	Property	Sample Date	pH	Specific Conductance (μS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)
MW131	Property	03/27/17	7.01	2,045	19.5	2.4	0.85	-134	1.9
		06/20/17	15.39 <sup>(a)</sup>	2,071	21.9	–	0.62	-86	–
		04/16/18	6.96	1,610	17.3	–	0.30	18	1.8
		10/25/18	6.66	1,546	18.9	–	0.39	-55	–
		12/12/18	6.78	1,899	14.5	–	0.44	129	–
		01/29/19	6.86	1,948	9.2	–	0.77	137	–
		03/11/19	6.70	1,849	14.0	–	1.30	-21	–
Decommissioned March 2019									
MW-142	8th Ave N ROW	04/27/18	6.96	1,349	18.9	–	0.50	133	1.50
		01/28/19	6.94	1,528	11.7	7.9	0.75	152	2.00
		04/24/19	7.00	1,541	15.6	–	0.70	121	1.20
		07/25/19	6.70	1,665	20.4	–	1.09	13	2.10
MW-144	8th Ave N ROW	04/27/18	7.34	1,739	16.4	–	0.40	100	0.50
		01/28/19	7.44	1,798	13.1	5.3	0.57	125	–
		04/23/19	7.39	1,749	16.8	–	0.45	67	1.2
MW-146	Roy St ROW	04/30/18	7.27	694	17.0	–	0.40	95	1.25
		01/22/19	7.56	621	12.1	–	0.48	122	2.00
		04/24/19	7.20	564	16.5	–	0.76	11	2.50
		07/19/19	6.76	713	16.6	–	2.60	70	1.90
MW-149	Property	04/10/18	6.57	895	16.1	64.2 <sup>(b)</sup>	0.70	201	1.8
		10/25/18	6.41	814	19.3	–	0.17	-31	–
		12/13/18	6.56	1,354	16.5	–	1.79	132	0.5
		01/29/19	6.67	1,209	17.1	2.9	17.05	121	0.0
		03/13/19	6.29	1,648	17.2	–	0.12	-178	–
Decommissioned March 2019									
MW-151	Property	04/10/18	6.69	809	15.1	23.5 <sup>(b)</sup>	0.60	64	0.8
		10/25/18	6.26	3,599	18.5	–	0.06	-135	–
		12/14/18	6.74	2,314	11.0	–	0.13	-122	–
		01/31/19	6.86	2,151	13.0	–	0.18	21	–
		03/12/19	6.40	1,430	12.3	–	0.23	-278	–
Decommissioned March 2019									
MW-156	8th Ave N ROW	04/26/18	6.72	996	18.3	–	0.60	116	0.00
		01/24/19	6.70	1,263	16.1	78.1	0.54	131	0.00
		04/24/19	6.73	1,481	16.8	–	0.57	103	0.40
		07/22/19	7.55	1,452	20.6	–	0.13	-63	0.25
<b>Intermediate B Zone</b>									
MW111	Alley Between 8th & 9th Ave N	12/17/13	7.58	498	–	–	1.19	-99	0.18
		03/23/17	7.62	447	14.0	-0.5	1.19	-147	0.1
		06/14/17	7.29	431	19.7	–	1.15	-33	–
		04/06/18	7.75	605	15.3	–	0.60	83	–
		01/23/19	7.86	528	14.2	–	0.50	-124	–
		04/22/19	7.84	384	13.7	–	0.58	-46	–
		07/15/19	7.78	478	18.3	–	0.35	-138	–

Table 2

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Sample Location	Property	Sample Date	pH	Specific Conductance (μS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)
MW112	Dexter Ave N ROW	12/26/13	7.79	378	–	–	2.58	223	0.23
		03/22/17	7.96	419	14.9	–	0.93	132	–
		06/16/17	7.11	49	22.0	–	5.22	-457	–
		04/12/18	7.07	41	14.8	–	1.10	35	0.00
		12/21/18	6.88	108	13.9	–	0.77	68	–
		04/22/19	7.52	196	17.0	–	0.38	-70	1.00
		07/16/19	7.65	266	20.2	–	0.20	-143	0.00
MW126	Alley Between 8th & 9th Ave N	03/28/17	7.41	397	12.8	2.0	1.37	-112	–
		06/15/17	7.69	385	15.9	–	0.70	-64	–
		04/06/18	7.87	353	14.3	–	0.30	99	–
		01/22/19	7.88	432	10.7	–	1.25	115	–
		04/29/19	7.34	427	14.7	–	0.42	7	–
		07/18/19	7.41	357	15.9	–	0.25	14	–
MW130	Property	03/29/17	7.18	751	9.6	–	2.66	132	1.0
		06/30/17	7.32	858	29.7	–	0.99	-70	0.0
		05/21/18	7.69	571	26.3	–	1.07	-72	0.0
		12/17/18	7.74	1,183	16.5	–	44.9	–	0.0
		01/31/19	7.40	1,176	21.4	–	59.05	112	0.0
		Decommissioned March 2019							
MW-132	Property	09/25/17	8.52 <sup>(a)</sup>	652	27.3	39.7 <sup>(b)</sup>	0.70	-151.2	–
		04/26/18	7.70	466	25.9	–	3.50	81.6	–
		10/25/18	7.58	568	19.1	–	1.10	16.7	–
		12/13/18	7.60	668	14.2	–	0.93	117.0	–
		01/31/19	7.66	712	14.9	–	0.74	-40.3	–
		03/11/19	7.62	592	17.2	–	0.99	-24	–
Decommissioned March 2019									
MW-134	Property	09/22/17	13.08 <sup>(a)</sup>	565	19.0	MAX <sup>(b)</sup>	0.91	-47.7	–
		04/16/18	7.10	598	15.7	–	0.10	-145.3	0.00
		10/25/18	7.41	748	18.3	–	0.30	157.3	–
		12/12/18	7.56	649	17.0	–	0.50	-140.7	–
		01/28/19	7.74	747	17.1	–	0.53	-140.6	–
		03/12/19	7.06	759	16.8	–	0.38	171	–
Decommissioned March 2019									
MW-135	Property	09/25/17	9.11 <sup>(a)</sup>	871	25.3	208 <sup>(b)</sup>	1.10	-24.8	–
		04/25/18	7.38	837	19.5	–	0.80	99.2	1.50
		10/25/18	7.19	1034	17.6	–	0.77	-68.3	–
		12/13/18	7.41	1341	15.4	–	0.47	124.0	0.75
		01/31/19	7.34	1269	21.1	–	0.13	-157.4	–
		03/13/19	7.13	1,661	15.0	–	0.18	194	–
Decommissioned March 2019									

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MW-136	Property	09/25/17	10.07 <sup>(a)</sup>	465	24.2	MAX <sup>(b)</sup>	0.60	-61.0	–
		04/16/18	7.94	447	21.9	–	0.40	-77.2	0.60
		10/29/18	7.57	521	20.8	–	0.62	10.6	–
		12/13/18	7.56	539	18.6	–	0.34	-149.0	–
		02/01/19	7.41	546	18.7	–	1.42	-53.6	–
		03/12/19	7.36	687	14.2	–	0.50	172	–
		Decommissioned March 2019							
MW-139	Property	09/25/17	9.65 <sup>(a)</sup>	340	26.4	MAX <sup>(b)</sup>	0.60	-163	–
		04/25/18	7.79	432	20.3	–	0.40	89	0.75
		10/25/18	7.70	445	18.5	–	0.84	-13	–
		12/13/18	7.56	531	12.5	–	0.91	120	–
		01/28/19	7.92	534	13.4	–	1.19	-134	–
		03/11/19	7.11	703	18.4	–	0.70	-56	–
		Decommissioned March 2019							
MW-143	8th Ave ROW	04/30/18	7.83	905	15.4	–	0.60	97	0.50
		01/29/19	7.64	950	18.1	80.4	0.23	-148	0.75
		04/24/19	7.29	965	14.7	–	0.83	100	0.30
		07/19/19	7.42	835	21.3	–	0.21	-139	1.00
MW-145	8th Ave ROW	04/27/18	8.01	718	17.0	–	0.30	101	0.00
		01/29/19	7.60	740	17.4	94.9	0.98	-101	0.00
		04/26/19	7.89	722	16.5	–	0.36	-43	0.00
MW-147	Roy St ROW	05/01/18	7.85	911	16.8	–	0.40	79	–
		01/22/19	7.60	892	8.6	–	0.79	118	1.00
		04/23/19	7.07	685	17.3	–	0.42	-103	1.50
		07/18/19	6.85	721	17.4	–	0.46	94	2.00
MW-148	Roy St ROW	05/01/18	8.06	499	13.7	–	0.40	107	0.25
		01/23/19	7.80	706	12.0	–	0.66	116	–
		04/26/19	6.94	717	13.8	–	0.43	82	0.40
		07/22/19	8.43	619	16.6	–	0.24	-143	0.50
MW-150	Property	04/10/18	7.11	845	17.5	73.5 <sup>(b)</sup>	0.60	315	0.00
		10/25/18	6.79	1,282	18.6	–	0.05	-114	–
		12/12/18	6.95	1,812	15.0	–	0.39	134	–
		01/29/19	6.88	1,959	15.8	–	0.15	123	–
		03/13/19	6.39	2,489	16.5	–	0.19	-214	–
		Decommissioned March 2019							
MW-152	Property	04/10/18	7.45	846	15.2	15.8 <sup>(b)</sup>	0.60	372	0.00
		10/26/18	6.83	894	17.0	–	0.62	-85	–
		12/14/18	6.47	1,207	14.5	–	0.75	116	1.00
		01/31/19	7.26	1,632	11.6	–	9.10	125	–
		03/12/19	6.47	1,922	12.9	–	0.29	-186	–
		Decommissioned March 2019							
MW-157	8th Ave N ROW	04/26/18	6.92	867	20.7	–	0.70	97	–
		01/24/19	6.86	885	14.3	–	0.71	-64	3.00
		04/24/19	6.90	1,296	17.9	–	0.31	74	3.00
		07/22/19	7.28	923	19.5	–	0.14	-118	3.00

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Sample Location	Property	Sample Date	pH	Specific Conductance (μS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)
W-MW-01	8th Ave N ROW	04/13/18	7.91	539	14.5	–	0.40	67	0.8
		10/29/18	7.50	565	16.6	–	0.67	-91	–
		12/13/18	7.36	583	17.9	–	0.34	-123	–
		01/25/19	7.46	703	12.4	MAX <sup>(b)</sup>	0.51	127	1.5
		03/11/19	7.36	737	15.4	–	0.36	198	–
		04/25/19	7.64	758	16.7	–	0.61	32	0.6
		07/23/19	7.75	642	19.3	–	0.17	-153	0.0
W-MW-02	8th Ave N ROW	12/16/13	7.05	999	–	–	0.30	-84	0.87
		03/27/17	6.53	1,239	17.8	–	0.41	135	1.75
		06/19/17	6.02	1,326	20.0	–	1.45*	-11	1.50
		06/12/18	6.80	1,594	16.1	–	0.75	23	3.40
		10/26/18	6.32	1,763	19.2	–	0.41	-63	–
		12/12/18	6.51	2,025	15.7	–	0.44	125	–
		01/25/19	6.49	1,687	16.9	25.2	0.53	-52	2.00
		03/11/19	6.50	1,832	14.8	–	0.95	-9	–
		04/23/19	6.68	1,688	13.7	–	0.72	52	0.50
07/23/19	6.61	1,740	22.3	–	0.36	-90	3.00		
<b>Deep Zone</b>									
FMW-129	SDOT Property S of Roy	04/10/17	8.88	891	12.4	–	0.82	-116	0.0
		06/23/17	6.82	703	20.2	–	0.60	-31	1.0
		05/01/19	6.83	666	15.9	–	0.44	7	–
		07/16/19	6.63	669	14.6	–	0.47	97	–
FMW-131	Block 37	03/24/17	6.73	342	13.3	2.9	0.84	-41.6	0.5
		06/23/17	6.71	552	15.4	–	0.78	25.1	0.25
		04/22/19	6.44	224	12.6	–	0.41	-22.3	–
		07/01/19	–	–	–	–	–	–	–
FMW-3D	Block 31	03/24/17	6.85	302	13.7	16.9	1.06	-74.7	–
		06/23/17	6.81	356	19.9	–	0.48	-16.5	–
GEI-2	Block 37	03/24/17	6.43	890	12.6	0.5	0.84	-77.6	0.25
		06/23/17	6.68	804	16.0	–	0.45	-80.0	1.0
		04/22/19	6.61	933	13.0	–	0.37	-44.6	–
		07/16/19	6.71	708	16.9	–	0.26	-85.0	1.50
MW102	Valley Street ROW	03/29/17	7.87	417	11.6	–	1.55	148	–
		06/15/17	7.89	292	16.8	–	0.69	-88	–
		04/25/18	7.89	297	19.5	–	0.40	66	1.00
		01/24/19	8.01	314	11.5	–	0.63	-124	0.00
		05/01/19	8.32	303	16.9	–	0.64	97	0.50
		07/18/19	7.40	320	20.5	–	0.12	-73	0.80
MW103	Alley Between 8th & 9th Ave N	12/18/13	10.45	735	–	–	0.26	267	1.39
		03/23/17	7.49	799	13.4	–	0.91	155	0.25
		06/12/17	7.35	648	17.0	–	0.31	-88	1.75
		04/06/18	7.52	521	15.1	–	0.60	91	–
		01/23/19	9.60	359	13.8	–	0.55	126	–
		04/22/19	7.21	693	13.4	–	0.60	6	–
		07/15/19	7.14	728	17.9	–	0.54	31	–

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	pH	Specific Conductance (μS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)
MW104	8th Ave N ROW	12/17/13	8.49	591	–	–	0.48	245	5.03
		03/30/17	6.28	667	8.7	–	1.84	131	–
		06/30/17	7.70	383	25.5	–	0.23	-131	0.0
		04/09/18	8.47	425	20.9	–	0.20	33	0.3
		10/25/18	11.48	750	19.2	–	0.63	131	–
		12/13/18	9.33	334	19.6	–	0.20	-259	–
		02/01/19	9.65	153	20.2	MAX <sup>(b)</sup>	0.11	-205	0.0
		03/13/19	9.03	407	18.6	–	0.24	122	–
		04/23/19	9.10	376	18.6	–	0.21	-100	0.0
		07/22/19	9.94	373	20.8	–	0.24	138	0.0
MW105	Roy Street ROW	12/29/13	7.49	1,165	–	–	1.26	216	2.01
		04/21/17	7.47	785	17.1	105	2.34	-36.8	–
		06/12/17	7.37	734	17.1	–	0.70	-64.1	–
		04/11/18	9.48 <sup>(a)</sup>	469	14.4	–	1.40	42.0	0.75
		01/23/19	7.66	570	13.4	–	0.67	107.1	–
		04/23/19	7.82	580	15.3	–	0.39	-57.7	0.50
		07/17/19	7.53	625	17.1	–	0.32	126.7	–
MW106	SDOT Property S of Roy	04/14/17	9.47	726	15.1	457	2.00	1.7	0.0
		06/30/17	7.69	566	19.7	–	0.40	-128.2	0.0
		05/04/18	7.91	482	16.0	–	0.50	100.1	0.0
		04/26/19	7.79	507	15.6	–	0.53	-19.9	0.0
		07/19/19	7.51	615	17.6	–	0.50	51.2	0.0
MW113	9th Ave N ROW	12/19/13	10.0	267	–	–	0.26	264	0.03
		03/22/17	6.54	1,426	15.2	2.1	1.10	-79.1	4.0
		06/16/17	6.52	1,145	12.9	–	0.57	-5.7	1.5
		04/11/18	9.44 <sup>(a)</sup>	946	15.0	–	0.60	62.5	–
		02/07/19	6.64	1,219	9.9	2.4	0.80	75.9	2.5
		07/17/19	6.72	667	17.4	–	1.69	240.9	0.3
MW122	Alley Between 8th & 9th Ave N	03/28/17	7.89	519	13.5	–	0.64	109	–
		06/14/17	7.72	374	16.7	–	0.46	-69	–
		04/06/18	7.93	336	14.9	–	0.60	77	–
MW123	Westlake Ave N ROW	04/01/17	6.85	795	13.1	14.5	1.10	-117	–
		06/24/17	6.89	737	17.3	–	1.07	-89	–
		04/14/18	6.82	888	14.5	–	0.50	166	–
MW124	Valley Street ROW	12/26/13	7.84	285	–	–	1.43	217	0.39
		03/29/17	7.96	306	13.9	–	1.06	117	–
		06/15/17	7.64	292	16.5	–	0.50	9	–
		04/13/18	7.57	281	14.3	–	1.30	327	0.5
MW128	Westlake Ave N ROW	03/29/17	6.62	800	12.5	7.0	0.99	-88.0	1.80
		06/21/17	6.74	1588	17.8	–	0.56	-78.8	–
		04/09/18	7.57	850	17.9	–	0.40	-44.7	–
		07/18/19	6.80	1040	17.3	–	0.24	-101.5	–



Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)
MW-133	Property	09/25/17	9.85 <sup>(a)</sup>	372	24.0	–	0.80	-156.5	–
		04/25/18	7.79	344	21.7	–	0.30	-24.8	1.25
		10/26/18	8.16	403	19.6	–	0.71	125.0	–
		12/12/18	7.69	362	17.3	–	0.90	-74.1	–
		02/01/19	7.76	362	19.4	–	0.34	-163.3	–
		03/13/19	6.99	413	12.1	–	0.91	181	–
		Decommissioned March 2019							
MW-137	Property	09/25/17	9.22 <sup>(a)</sup>	342	26.0	223 <sup>(b)</sup>	0.60	-147.5	–
		04/12/18	9.29	386	22.1	–	0.10	-111.8	0.75
		10/26/18	7.54	469	24.2	–	8.74	140.8	–
		12/12/18	7.27	398	18.8	–	0.74	-116.6	–
		02/01/19	9.26	437	18.8	–	0.21	-170.8	–
		03/11/19	7.39	493	18.1	–	0.50	180	–
		Decommissioned March 2019							
MW-138	Dexter Ave N ROW	09/21/17	8.32 <sup>(a)</sup>	390	18.1	MAX <sup>(b)</sup>	0.52	-331.3	–
		04/11/18	7.89	350	17.4	–	0.20	33.5	0.0
		10/29/18	7.43	346	16.5	–	0.38	121.9	–
		12/17/18	7.82	424	15.7	–	0.49	-145.0	–
		01/03/19	7.33	358	16.2	–	2.41	49.8	0.0
		03/14/19	6.76	426	14.2	–	0.44	149.2	–
		04/22/19	7.47	359	17.1	–	0.34	-64.7	3.5
		07/19/19	7.61	366	18.9	–	0.21	-156.2	0.5
MW-140	Roy St ROW	09/22/17	7.99 <sup>(a)</sup>	560	21.6	200 <sup>(b)</sup>	0.73	-208.8	–
		04/12/18	7.74	421	14.0	–	0.30	49.6	0.3
		Decommissioned							
MW-141	Property	09/22/17	9.90 <sup>(a)</sup>	398	24.0	MAX <sup>(b)</sup>	0.40	-392.8	–
		04/12/18	7.39	337	20.9	–	0.20	37.9	–
		10/25/18	7.25	376	19.5	–	0.41	149.5	–
		12/12/18	7.20	339	17.0	–	0.92	-109.5	–
		01/30/19	7.35	411	20.5	–	0.28	-134.0	–
		03/11/19	7.29	427	16.4	–	0.55	185	–
		MW-153	Roy St ROW	05/01/18	8.91	369	16.5	–	0.40
01/22/19	8.91			391	15.2	–	0.67	93.5	0.0
04/24/19	8.62			327	18.0	–	0.45	92.6	0.0
07/22/19	7.65			370	17.1	–	8.17	2.8	0.0
MW-158A	8th Ave N ROW			04/30/18	8.20	1,306	14.8	–	0.40
		01/24/19	7.91	707	13.8	MAX <sup>(b)</sup>	0.53	-164.1	0.0
		04/25/19	7.58	775	17.7	–	0.48	37.5	NR
		07/19/19	7.72	653	8.3	–	0.15	-144.4	0.0
MW-160	8th Ave N ROW	05/21/18	7.96	323	23.2	–	0.42	-246.5	0.0
		01/25/19	7.57	404	18.4	MAX <sup>(b)</sup>	0.40	94.8	0.5
		05/01/19	7.71	359	24.0	–	0.32	-120.5	0.0
		07/23/19	7.73	341	21.8	–	0.75	115.3	0.5

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	pH	Specific Conductance (μS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)
MW-161	8th Ave N ROW	05/21/18	7.59	544	21.6	–	0.48	-152.6	0.0
		01/25/19	7.49	661	17.9	MAX <sup>(b)</sup>	0.61	99.2	0.0
		04/29/19	7.27	662	18.4	–	0.31	24.2	0.0
		07/18/19	7.10	586	20.9	–	0.36	-29.5	0.0
MW-162	Property	02/05/19	7.68	541	12.7	7.5	0.29	109.6	–
		03/12/19	7.52	402	17.8	–	0.31	-81.9	–
		Decommissioned March 2019							
MW-163	Property	02/05/19	7.67	394	15.5	4.5	3.73	-44.7	–
		03/12/19	7.45	392	15.6	–	0.59	145.3	–
		Decommissioned March 2019							
MW-164	Property	02/05/19	7.63	462	14.6	10.5	0.56	-35.4	–
		03/12/19	7.30	686	15.4	–	0.23	148.7	–
		Decommissioned March 2019							
<b>Treatment Zone A Injection Wells</b>									
IW-4A	Property	03/28/18	6.49	540	17.1	–	0.50	65	–
IW-7A	Property	04/02/18	7.07	1,096	15.7	–	0.60	122.7	–
IW-9A	Property	03/29/18	6.58	528	16.8	–	1.40	88	–
IW-18A	Property	03/30/18	6.47	928	17.7	–	0.50	117	–
		12/13/18	6.26	2199	17.0	–	1.11	–	–
IW-22A	Property	04/02/18	6.96	1,005	18.6	–	0.60	92.5	–
IW-37A	Property	03/28/18	8.17	319	15.9	–	0.70	10	–
IW-38A	Property	12/14/18	6.60	1945	15.8	–	0.26	143.7	–
IW-41A	Property	04/10/18	8.12	364	17.4	–	0.30	58.7	–
IW-42A	Property	04/10/18	7.53	590	14.2	–	0.40	73	–
IW-45A	Property	04/04/18	7.18	573	13.3	–	0.70	68.7	–
IW-46A	Property	03/28/18	6.78	1564	14.7	–	0.50	89	–
IW-48A	Property	04/02/18	6.88	2,007	15.4	–	0.70	72.6	–
<b>Treatment Zone B Injection Wells</b>									
IW-3B	Property	03/28/18	6.65	669	16.0	–	0.70	66	–
IW-6B	Property	04/02/18	6.69	884	15.9	–	1.10	110.0	–
IW-8B	Property	03/30/18	7.66	471	13.6	–	0.80	111	–
IW-17B	Property	03/30/18	6.80	142	16.5	–	0.70	-6.3	–
		12/13/18	6.43	1,640	17.1	–	1.61	47.9	–
IW-21B	Property	04/02/18	7.01	1709	17.9	–	0.50	74	–
IW-22B	Property	04/25/18	7.09	693	19.4	–	0.60	98.1	–
IW-24B	Property	03/30/18	6.92	1279	17.8	–	0.70	72	–
IW-28B	Property	04/09/18	6.85 <sup>(a)</sup>	1,028	20.4	–	0.40	-54.5	–
		12/14/18	6.55	2,448	18.1	–	0.55	128.9	–
IW-33B	Property	04/02/18	7.03	1425	16.7	–	0.70	87	–
IW-37B	Property	03/29/18	7.31	1,156	19.6	–	0.60	76.2	–
IW-45B	Property	03/28/18	7.40	949	18.0	–	0.70	64	–

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)
IW-47B	Property	04/10/18	7.52	1,080	20.6	–	0.30	70.3	–
IW-49B	Property	03/28/18	6.98	1551	15.6	–	0.60	88	–
IW-51B	Property	03/28/18	7.69	1,100	15.7	–	0.30	-151.3	–
<b>Treatment Zone C Injection Wells</b>									
IW-1C	Property	03/29/18	7.71	578	14.5	–	0.80	104	–
IW-4C	Property	04/26/18	7.91	725	17.8	–	0.70	109.1	–
		12/14/18	6.37	3,590	18.5	–	34.50	185.1	–
IW-8C	Property	04/04/18	9.13	1062	15.8	–	2.10	79	–
IW-9C	Property	04/02/18	7.36	967	18.5	–	0.80	85.3	–
IW-13C	Property	04/25/18	7.68	754	20.7	–	0.70	91	–
IW-15C	Property	03/30/18	7.32	1,343	19.8	–	0.30	1.9	–
		12/13/18	6.59	2,448	14.7	–	22.06	138.3	–
IW-19C	Property	03/29/18	7.59	1122	19.3	–	0.80	98	–
IW-20C	Property	03/30/18	7.49	751	19.7	–	0.40	50.5	–
<b>Treatment Zone D Injection Wells</b>									
IW-1D	Property	04/03/18	8.96	591	20.4	–	0.40	-228	–
		12/13/18	6.72	2188	13.1	–	0.28	-34	–
IW-3D	Property	04/03/18	7.58	761	21.8	–	0.50	72.3	–
IW-4D	Property	03/29/18	8.42	407	13.8	–	0.90	90	–
IW-6D	Property	04/03/18	7.73	366	18.1	–	0.40	14.3	–
		12/13/18	6.31	2,952	15.1	–	34.30	247.3	–
IW-8D	Property	04/04/18	7.33	722	20.5	–	0.50	81	–
IW-9D	Property	04/04/18	7.63	505	18.5	–	5.50	85.7	–
IW-11D	Property	05/01/18	7.96	757	20.9	–	0.60	55.9	–
Notes:									
1. – = not measured									
2. <sup>(a)</sup> = pH meter not giving stable/reliable reading									
3. <sup>(b)</sup> = Turbidity reading collected and read with a turbidimeter after water sample collection.									
4. * =									
5. MAX = Turbidity greater than instrument upper detection limit.									

Table 3

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
						GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
Screening Level						800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2	
<b>On Property</b>																		
F5	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	120,000	1,100	700	5.20	4.2	
			10/24/13	SES	Peristaltic	-	-	-	-	-	-	-	-	21,000	1,200	1,000	1,000	200 U
			03/28/17	PES	Peristaltic	234	-	-	0.515	0.727 U	0.158 U	0.316 U	0.199 U	0.241 J	516	4.31	90.6	
			06/22/17	PES	Peristaltic	31.6 U	-	-	0.374 J	0.708	0.158 U	0.316 U	0.199 U	0.485	10.4	0.485 J	63.9	
			Decommissioned March 2019															
F9	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	140,000	3,400	1,100	8.6	78	
			06/16/15	SES	Peristaltic	-	-	-	-	-	-	-	-	3.7	1.8	680	12	74
			10/19/15	SES	Peristaltic	-	-	-	-	-	-	-	-	15.0	6.6	840	13	75
			02/01/16	SES	Peristaltic	-	-	-	-	-	-	-	-	2.9	1 U	1.3	1 U	20
			03/27/17	PES	Peristaltic	31.6 U	-	-	0.529	2.04	0.158 U	0.316 U	0.199 U	0.153 U	0.158 J	0.539	0.118 U	
			06/22/17	PES	Peristaltic	31.6 U	-	-	0.471 J	1.70	0.158 U	0.316 U	0.199 U	0.153 U	6.10	0.485	3.57	
Decommissioned March 2019																		
F13	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	2,900	280	370	100 U	49	
			10/24/13	SES	Peristaltic	-	-	-	-	-	-	-	-	7,300	3,100	490	50 U	10 U
			11/18/13	SES	Peristaltic	-	-	-	-	-	-	-	-	67,000	6,600	3,200	85	48
			12/12/13	SES	Peristaltic	-	-	-	-	-	-	-	-	1,100	340	670	10 U	20
			03/07/14	SES	Peristaltic	-	-	-	-	-	-	-	-	84	11	10	1 U	0.36
			06/16/15	SES	Peristaltic	-	-	-	-	-	-	-	-	8.4	1 U	1.8	1 U	0.31
			10/19/15	SES	Peristaltic	-	-	-	-	-	-	-	-	1 U	2.0	210	2.3	4.1
			02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	-	3.4	1 U	1 U	1 U	0.97
			03/27/17	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.218 J	0.152 U	0.936	
			06/22/17	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.194 J	0.152 U	1.32	
			04/05/18	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.346 J	0.375 J	0.152 U	0.843	
Decommissioned March 2019																		
G12	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	64,000	3,100	9,200	88	130	
			10/24/13	SES	Peristaltic	-	-	-	-	-	-	-	-	1,700	150	100 U	100 U	20 U
			11/18/13	SES	Peristaltic	-	-	-	-	-	-	-	-	760	84	42	10 U	2 U
			03/27/17	PES	Peristaltic	-	-	-	0.243 J	0.412 U	0.158 U	0.316 U	0.199 U	0.233 J	95.9	1.97	28.4	
			06/30/17	PES	Peristaltic	-	-	-	0.282 J	0.412 U	0.158 U	0.316 U	0.199 U	0.323 J	115	2.94	31.5	
Decommissioned March 2019																		
G-MW2	31 to 21	Property	07/24/01	GeoE	Peristaltic	-	-	-	0.375	48.3 E	2.01	12.88	176,000	237 g	129 g	1.02	0.457	
			01/29/09	DOF	Peristaltic	39,600 qp	-	-	20.0 U	20.0 U	20.0 U	48.9	59,000 f	210	373	1.33	0.200 U	
			06/02/11	SES	Peristaltic	59,000 xy	200	250 U	350 U	1,000 U	1,000 U	3,000 U	150,000	1000 U	1000 U	1000 U	200 U	
			09/06/12	SES	Peristaltic	-	-	-	0.35 U	12	1.1	4.7	150,000	320	260	1.4	0.2 U	
Decommissioned																		
J5	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	46,000	660	100 U	100 U	20 U	
			10/24/13	SES	Peristaltic	-	-	-	-	-	-	-	-	48,000	13,000	1,400	100 U	20 U
			06/16/15	SES	Peristaltic	-	-	-	-	-	-	-	-	1,100	340	250	51	1.0
			10/19/15	SES	Peristaltic	-	-	-	-	-	-	-	-	1,400	470	890	51	1.3
			02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	-	1,500	110	280	14	0.31
			03/21/17	PES	Peristaltic	-	-	-	0.580	0.412 U	0.158 U	0.316 U	0.199 U	285	78.5	253	1.73	29.6
			06/26/17	PES	Peristaltic	-	-	-	0.252 J	0.506	0.158 U	0.316 U	0.199 U	36.1	37.1	366	1.94	77.7
			04/05/18	PES	Peristaltic	207	-	-	0.638	0.412 U	0.158 U	0.316 U	0.199 U	267	70.5	222	1.00	17.6
			Decommissioned March 2019															

Table 3

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
						GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
<b>Screening Level</b>						<b>800</b>	<b>500</b>	<b>500</b>	<b>0.5</b>	<b>72</b>	<b>29</b>	<b>10,000</b>	<b>2.4</b>	<b>1</b>	<b>16</b>	<b>100</b>	<b>0.2</b>	
J15          (duplicate)	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	4,100	220	580	6.8	20	
			10/24/13	SES	Peristaltic	-	-	-	-	-	-	-	-	10,000	1,100	680	100 U	20 U
		Property	03/07/14	SES	Peristaltic	-	-	-	-	-	-	-	-	2,200	170	120	50 U	10 U
			06/16/15	SES	Peristaltic	-	-	-	-	-	-	-	-	9.0	12	310	8.8	3.1
			10/19/15	SES	Peristaltic	-	-	-	-	-	-	-	-	3.6	1 U	110	3.0	1.7
			02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	-	2.4	1 U	35	1 U	0.39
			03/27/17	PES	Peristaltic	-	-	-	0.188 J	0.495 J	0.158 U	0.316 U	0.199 U	0.153 U	43.3	1.18	6.99	
			06/26/17	PES	Peristaltic	-	-	-	0.173 J	0.459 J	0.158 U	0.316 U	0.199 U	0.153 U	39.8	1.06	6.30	
			06/26/17	PES	Peristaltic	-	-	-	0.173 J	0.551	0.158 U	0.316 U	0.199 U	0.153 U	39.3	1.03	6.73	
			04/05/18	PES	Peristaltic	41.2 J	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	12.8	0.358 J	26.3	0.709	6.07	
Decommissioned March 2019																		
K8	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	8,700	330	1,400	5.6	6.3	
			06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	-	63	16	500	67	2 U
			10/19/15	SES	Peristaltic	-	-	-	-	-	-	-	-	360	82	43	3.2	0.44
			02/01/16	SES	Peristaltic	-	-	-	-	-	-	-	-	250	44	82	1.8	0.31
			03/21/17	PES	Peristaltic	-	-	-	0.239 J	0.412 U	0.158 U	0.316 U	82.5	22.0	123	0.680	0.461 J	
			06/26/17	PES	Peristaltic	-	-	-	0.246 J	0.412 U	0.158 U	0.316 U	67.9	28.7	140	0.750	0.456 J	
			04/05/18	PES	Peristaltic	156	-	-	0.251 J	0.412 U	0.158 U	0.316 U	229	26.3	104	0.750	1.45	
Decommissioned March 2019																		
M15          (duplicate)	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	3,200	110	180	1.7	0.22	
			10/24/13	SES	Peristaltic	-	-	-	-	-	-	-	-	56,000	1,100	770	50 U	10 U
			03/07/14	SES	Peristaltic	-	-	-	-	-	-	-	-	2,100	190	290	2.9	2.60
			06/16/15	SES	Peristaltic	-	-	-	-	-	-	-	-	58	44	76	2.7	1.1
			10/19/15	SES	Peristaltic	-	-	-	-	-	-	-	-	48	29	110	2.3	0.74
			02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	-	11	10	84	1.8	0.39
			03/27/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.733	32.7	0.561	13.2	
			03/27/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.670	31.7	0.513	12.0	
			06/26/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.233 J	1.80	25.8	0.523	15.0	
			04/05/18	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.563	8.89	0.300 J	11.1	
Decommissioned March 2019																		
N7	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	640	50	18	1 U	0.2 U	
			10/19/15	SES	Peristaltic	-	-	-	-	-	-	-	-	2,900	99	9.9	1 U	0.2 U
			02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	-	230	79	1,700	2.9	0.92
			03/30/17	PES	Peristaltic	-	-	-	0.178 J	0.412 U	0.158 U	0.316 U	280	50.4	125	0.396 J	0.310 J	
			06/27/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	205	85.1	153	0.955	0.386 J	
			Decommissioned March 2019															
R-MW1	33.78 to 23.78	Property	10/24/92	Roux	Unknown	57	1,345	6,000	1	1	0.5 U	0.5 U	5 U	5 U	-	5 U	100	
			10/24/92	DOF	Unknown	53	26,000	12,000	0.61	0.83	0.50 U	1.0 U	4.2	0.82	12.0 c	-	170	
			10/24/92	Roux	Unknown	54	290	5,000	0.58	1	0.5 U	0.5 U	2.3	2 U	14	NA	140	
			01/29/09	DOF	Peristaltic	50.0 U	-	-	0.500 U	0.500 U	0.500 U	1.00 U	17.1	4.26	1.60	0.200 U	0.630	
			06/02/11	SES	Peristaltic	100 U	1,000 x	740	0.35 U	1 U	1 U	3 U	7.9	2.7	1.9	1 U	0.68	
			09/05/12	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	16	3.6	2.1	1 U	2.20	
			Decommissioned															

Table 3

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
						GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
<b>Screening Level</b>						<b>800</b>	<b>500</b>	<b>500</b>	<b>0.5</b>	<b>72</b>	<b>29</b>	<b>10,000</b>	<b>2.4</b>	<b>1</b>	<b>16</b>	<b>100</b>	<b>0.2</b>	
R-MW2	36.74 to 26.74	Property	10/24/92	Roux	Unknown	4,200	34	2,000	684	17	301	403	5 U	5 U	-	5 U	5 U	
			10/24/92	DOF	Unknown	4,000	16,000	25,000	310	0.50	140	180	-	-	-	-	-	-
			01/29/09	DOF	Peristaltic	657	-	-	0.500 U	0.557	0.513	2.08	5.05	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
			06/02/11	SES	Peristaltic	1,700	3,100	290 x	19	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
			09/04/12	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
			03/21/17	PES	Peristaltic	-	-	-	0.272 J	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.341 J	0.152 U	0.522	
			06/15/17	PES	Peristaltic	-	-	-	0.694	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.682	0.152 U	0.609	
			04/02/18	PES	Peristaltic	38.0 U	-	-	0.568	0.412 U	0.158 U	0.316 U	0.866	0.620	2.48	0.152 U	1.33	
			Decommissioned March 2019															
R-MW3	34.74 to 24.74	Property	10/24/92	Roux	Unknown	87	3,015	1,200	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	-	5 U	5 U	
			10/24/92	DOF	Unknown	50 U	-	-	0.50 U	0.50 U	0.50 U	1.0 U	-	-	-	-	-	-
			01/29/09	DOF	Peristaltic	50.0 U	-	-	0.500 U	0.500 U	0.500 U	1.00 U	4.26	0.200 U	0.200 U	0.200 U	0.200 U	
			06/02/11	SES	Peristaltic	100 U	240 x	250 U	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U	
			09/04/12	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	6.4	1 U	1 U	1 U	0.2 U	
			03/21/17	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	1.38	0.714	0.575	0.152 U	0.118 U	
			06/28/17	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.834	0.582	0.735	0.152 U	0.424 J	
			04/04/18	PES	Peristaltic	33.7 J	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	16.4	0.972	1.35	0.152 U	0.214 J	
			Decommissioned March 2019															
<b>Off Property</b>																		
MW-6	31.2 to 16.2	800 Aloha St Parcel	10/12/93	Retec	Unknown	150,000	-	-	9,100	6,800	2,600	7,300	-	-	-	-	-	
			10/26/93	Retec	Unknown	100,000	-	-	17,000	14,000	1,400	11,000	-	-	-	-	-	
			01/25/94	Retec	Unknown	66,000	-	-	8,800	4,600	1,500	8,100	-	-	-	-	-	
			04/25/94	Retec	Unknown	120,000	-	-	15,000	7,200	2,600	13,300	-	-	-	-	-	
			09/15/94	Retec	Unknown	56,000	-	-	15,000	2,000	1,500	7,100	-	-	-	-	-	
			06/20/02	Urban	Unknown	8,500	-	-	1,900	14	250	53	-	-	-	-	-	
MW-7	26.09 to 16.09	800 Aloha St Parcel	10/12/93	Retec	Unknown	75,000	-	-	20,000	22,000	3,000	15,000	-	-	-	-	-	
			10/26/93	Retec	Unknown	74,000	-	-	8,300	7,400	1,100	8,300	-	-	-	-	-	
			01/25/94	Retec	Unknown	53,000	-	-	1,600	2,700	1,400	5,100	-	-	-	-	-	
			04/25/94	Retec	Unknown	140,000	-	-	3,900	7,400	3,100	14,100	-	-	-	-	-	
			09/15/94	Retec	Unknown	66,000	-	-	3,400	2,700	1,900	7,700	-	-	-	-	-	
			06/20/02	Urban	Unknown	8,400	-	-	650	37	470	150	-	-	-	-	-	
MW-8	28.69 to 14.19	800 Aloha St Parcel	10/26/93	Retec	Unknown	280	-	-	19	1	1 U	48	-	-	-	-	-	
			01/25/94	Retec	Unknown	230 J	-	-	13	0.7 J	1 U	4.5	-	-	-	-	-	
			01/25/94	Retec	Unknown	210 J	-	-	12	0.6 J	1 U	3.7	-	-	-	-	-	
			04/25/94	Retec	Unknown	250 U	-	-	2.2	1 U	1 U	1.7	-	-	-	-	-	
			09/15/94	Retec	Unknown	210 J	-	-	1 U	0.5 J	1 U	1.6 J	-	-	-	-	-	
			09/15/94	Retec	Unknown	250	-	-	1 U	0.5 J	1 U	1.7 J	-	-	-	-	-	
			06/21/02	Urban	Unknown	50 U	-	-	1 U	1 U	1 U	1 U	-	-	-	-	-	
			03/20/17	PES	Peristaltic	-	-	-	0.145 J	0.412 U	0.175 J	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
			06/27/17	PES	Peristaltic	-	-	-	-	-	-	-	-	-	-	-	-	
(dry)			04/13/18	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.570	0.153 U	0.0933 U	0.152 U	0.118 U	
			07/18/19	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	

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**Groundwater Analytical Data for Shallow Zone Wells  
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Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																								
						GRO		DRO		ORO		Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE		TCE		cDCE		tDCE		VC		
Screening Level						800		500		500		0.5		72		29		10,000		2.4		1		16		100		0.2		
MW-9  (duplicate)	33.81 to 18.81	8th Ave North ROW	10/26/93	Retec	Unknown	210	J	-	-	-	-	9.5		1.3		1	U	2	U	-		-		-		-		-		
			01/25/94	Retec	Unknown	250	U	-	-	-	-	-	5.7		1.1		1	U	2	U	-		-		-		-		-	
			04/25/94	Retec	Unknown	250	U	-	-	-	-	-	0.001	U	1	U	1	U	2	U	-		-		-		-		-	
			09/15/94	Retec	Unknown	250	U	-	-	-	-	-	3.5		0.6	J	1	U	2	U	-		-		-		-		-	
			06/20/02	Urban	Unknown	50	U	-	-	-	-	-	1	U	1	U	1	U	2	U	1	U	1	U	1	U	1	U	1	U
			06/02/11	SES	Peristaltic	100	U	150	x	250	U	-	1	U	1	U	1	U	3	U	-		-		-		-		-	
			09/04/12	SES	Peristaltic	-		-		-		-	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	1	U
			12/16/13	SES	Peristaltic	100	U	50	U	250	U	-	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	1	U
			03/20/17	PES	Peristaltic	52.8	J	-		-		-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.140	J	0.152	U	0.324	J
			06/20/17	PES	Peristaltic	31.6	U	-		-		-	0.0896	U	0.562		0.158	U	0.316	U	0.199	U	0.153	U	0.214	J	0.152	U	0.118	U
			06/20/17	PES	Peristaltic	31.6	U	-		-		-	0.0896	U	0.548		0.158	U	0.316	U	0.199	U	0.153	U	0.211	J	0.152	U	0.118	U
			04/05/18	PES	Peristaltic	32.9	J	-		-		-	0.0896	U	0.412	U	0.158	U	0.316	U	1.58		0.153	U	0.246	J	0.152	U	0.210	J
			01/21/19	PES	Peristaltic	31.6	U	-		-		-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
			04/26/19	PES	Peristaltic	121	J+	-		-		-	0.0896	U	0.412	U	0.158	U	0.316	U	157		45.2		75.1		0.261	J	0.861	UJ
07/16/19	PES	Peristaltic	57.4	U	-		-		-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.619				
MW-10	30.95 to 15.95	800 Aloha St Parcel	10/26/93	Retec	Unknown	250	U	-	-	-	1	U	1.3		1	U	2	U	-		-		-		-		-			
			01/25/94	Retec	Unknown	190	J	-	-	-	-	1	U	3.2		1	U	2	U	-		-		-		-		-		
			04/25/94	Retec	Unknown	250	U	-	-	-	-	1	U	2.5		1	U	2	U	-		-		-		-		-		
			09/15/94	Retec	Unknown	250	U	-	-	-	-	1	U	0.9	J	1	U	2	U	-		-		-		-		-		
			06/20/02	Urban	Unknown	50	U	-	-	-	-	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
MW121	26.72 to 16.72	8th Ave North ROW	12/26/13	SES	Peristaltic	100	U	200	x	250	U	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	1.3		
			03/28/17	PES	Peristaltic	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.768		0.152	U	5.82		
			06/20/17	PES	Peristaltic	-		-		-		0.186	J	0.774		0.158	U	0.316	U	0.199	U	0.153	U	1.13		0.152	U	7.68		
			04/05/18	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	2.93		0.153	U	0.959		0.152	U	6.45		
	Shallow	01/31/19	PES	Peristaltic	38.0	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	5.53		0.152	U	19.8			
		04/29/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	5.39		0.152	U	15.2	J		
		07/19/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	1.01		0.152	U	5.04			
MW125	28.55 to 13.55	Valley St ROW	12/26/13	SES	Peristaltic	100	U	300	x	250	U	1.4		1	U	1	U	3	U	1	U	1	U	1	U	1	U	0.2	U	
			03/22/17	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.285	J	0.153	U	0.341	J	0.152	U	0.118	U	
			06/28/17	PES	Bladder	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
			04/06/18	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.580		0.153	U	0.278	J	0.152	U	0.118	U	
			01/21/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
			04/23/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	UJ	
			07/18/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
MW-154	27.57 to 13.55	Roy St ROW	04/30/18	PES	Bladder	32.1	J	-	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	4.46		0.230	J	1.77		0.152	U	7.48			
			01/21/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	1.70		0.330	J	2.03		0.152	U	3.52		
			04/24/19	PES	Bladder	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	1.02		0.214	J	1.76		0.152	U	0.797		
			07/15/19	PES	Bladder	68.0	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	69.5		5.75		2.55		0.152	U	0.211	J	
MW-155	24.05 to 13.55	Roy Street ROW	04/27/18	PES	Peristaltic	60.9	U	-	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	3.48		0.334	J	0.466	J	0.152	U	0.447	J		
			01/21/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	3.72		0.581		0.274	J	0.152	U	0.118	U	
			04/23/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	14.6		4.75		71.9		0.152	U	6.54	J	
			07/23/19	PES	Bladder	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	92.7		19.9		12.1		0.152	U	0.35	J	

Table 3

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																								
						GRO		DRO		ORO		Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE		TCE		cDCE		tDCE		VC		
						800	U	500	U	500	U	0.5	U	72	U	29	U	10,000	U	2.4	U	1	U	16	U	100	U	0.2	U	
MW-159  (duplicate)	22.39 to 13.55	8th Ave N ROW	04/26/18	PES	Peristaltic	31.6	U	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.964</b>	<b>0.358</b>	<b>J</b>	<b>1.09</b>	0.152	U	0.118	U				
			01/21/19	PES	Peristaltic	31.6	U	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>0.651</b>	0.152	U	<b>0.666</b>	U			
			04/26/19	PES	Bladder	31.6	U	–	–	–	<b>0.179</b>	<b>J</b>	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>1.23</b>	0.152	U	<b>1.03</b>	<b>J</b>			
			04/26/19	PES	Bladder	31.6	U	–	–	–	<b>0.193</b>	<b>J</b>	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>1.12</b>	0.152	U	<b>1.04</b>	<b>J</b>			
			07/22/19	PES	Bladder	31.6	U	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>0.918</b>	0.152	U	<b>0.691</b>	U			
MW-214 (duplicate) (dry)	–	Valley St ROW	03/30/17	PES	Peristaltic	–	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U			
			03/30/17	PES	Peristaltic	–	–	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U		
			06/21/17	PES	Peristaltic	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		
			04/09/18	PES	Peristaltic	–	–	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.725</b>	0.153	U	0.0933	U	0.152	U	0.118	U			
R-MW5	42.03 to 27.03	Dexter Ave North ROW	10/28/92	Roux	Unknown	<b>93</b>	–	<b>86</b>	1000	U	0.5	U	<b>1</b>	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	–	0.5	U				
			01/29/09	DOF	Peristaltic	50	U	–	–	–	0.500	U	0.500	U	0.500	U	1.00	U	<b>0.800</b>	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	
			06/02/11	SES	Peristaltic	100	U	50	U	250	U	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	0.2	U	
			09/05/12	SES	Peristaltic	–	–	–	–	–	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	1	U	0.2	U
			12/18/13	SES	Peristaltic	100	U	50	U	250	U	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	0.2	U	
			03/23/17	PES	Peristaltic	–	–	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.338</b>	<b>J</b>	<b>0.186</b>	<b>J</b>	0.0933	U	0.152	U	0.118	U		
			06/16/17	PES	Bladder	–	–	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.257</b>	<b>J</b>	<b>0.245</b>	<b>J</b>	0.0933	U	0.152	U	0.118	U		
			04/11/18	PES	Bladder	31.6	U	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.621</b>	0.153	U	0.0933	U	0.152	U	0.118	U			
			01/03/19	PES	Peristaltic	<b>81.5</b>	<b>J</b>	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.477</b>	<b>J</b>	0.153	U	0.0933	U	0.152	U	0.118	U		
			04/22/19	PES	Peristaltic	31.6	U	–	–	–	0.0896	U	<b>0.428</b>	<b>J</b>	0.158	U	0.316	U	<b>0.499</b>	<b>J</b>	<b>0.155</b>	<b>J</b>	0.0933	U	0.152	U	0.118	U		
			07/16/19	PES	Bladder	31.6	U	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.736</b>	0.153	U	<b>0.131</b>	<b>J</b>	0.152	U	0.118	U			
R-MW6	33.28 to 23.28	8th Ave North ROW	10/28/92	Roux	Unknown	50	U	50	U	1000	U	0.5	U	<b>2</b>	0.5	U	<b>2</b>	<b>4,500</b>	<b>920</b>	<b>2,600</b>	–	–	–	–	<b>240</b>	–				
			11/03/92	DOF	Unknown	–	–	–	–	–	–	–	–	–	–	–	–	–	<b>690</b>	<b>160</b>	<b>620</b>	–	–	–	–	<b>40</b>	U			
			01/29/09	DOF	Peristaltic	50.0	U	–	–	–	0.500	U	0.500	U	0.500	U	1.00	U	<b>1.78</b>	0.200	U	<b>2.64</b>	0.200	U	<b>2.75</b>	0.200	U			
			05/03/10	SES	Peristaltic	–	–	–	–	–	–	–	–	–	–	–	–	–	1	U	1	U	<b>1.2</b>	1	U	<b>2.8</b>	1	U		
			06/02/11	SES	Peristaltic	100	U	<b>120</b>	<b>x</b>	250	U	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	<b>2.1</b>	U	
			09/05/12	SES	Peristaltic	–	–	–	–	–	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	1	U	0.2	U
			03/21/17	PES	Peristaltic	<b>42.8</b>	<b>J</b>	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>1.08</b>	–	<b>3.17</b>	<b>20.0</b>	<b>0.242</b>	<b>J</b>	<b>8.65</b>	<b>0.242</b>	<b>J</b>			
			06/20/17	PES	Peristaltic	<b>38.5</b>	<b>J</b>	–	–	–	<b>0.167</b>	<b>J</b>	<b>0.619</b>	0.158	U	0.316	U	<b>1.19</b>	–	<b>0.878</b>	<b>37.3</b>	<b>0.445</b>	<b>J</b>	<b>43.9</b>	<b>0.445</b>	<b>J</b>				
			04/06/18	PES	Peristaltic	31.6	U	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>1.85</b>	–	<b>2.24</b>	<b>19.4</b>	<b>0.277</b>	<b>J</b>	<b>26.9</b>	<b>0.277</b>	<b>J</b>			
			01/25/19	PES	Peristaltic	–	–	–	–	–	<b>0.142</b>	<b>J</b>	0.412	U	0.158	U	0.316	U	<b>0.328</b>	<b>J</b>	<b>1.07</b>	<b>12.5</b>	0.152	U	<b>9.14</b>	0.152	U			
			04/25/19	PES	Peristaltic	31.6	U	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>0.370</b>	<b>J</b>	<b>11.8</b>	<b>0.168</b>	<b>J</b>	<b>7.16</b>	<b>J</b>			
SCL-MW101	–	Alley Between 8th & 9th Ave N	03/28/17	PES	Peristaltic	–	–	–	–	<b>6.74</b>	0.624	U	<b>0.598</b>	<b>2.08</b>	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U						
			06/14/17	PES	Peristaltic	–	–	–	–	<b>18.6</b>	<b>1.68</b>	<b>17.1</b>	<b>3.50</b>	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U							
			04/06/18	PES	Peristaltic	–	–	–	–	<b>10.6</b>	<b>1.24</b>	<b>11.7</b>	<b>3.32</b>	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U							
SCL-MW105	–	Alley Between 8th & 9th Ave N	03/28/17	PES	Peristaltic	–	–	–	–	<b>257</b>	<b>16.3</b>	<b>26.5</b>	<b>33.9</b>	0.995	U	0.765	U	0.466	U	0.760	U	0.590	U							
			06/15/17	PES	Peristaltic	–	–	–	–	<b>208</b>	<b>14.3</b>	<b>109</b>	<b>40.8</b>	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U							
			04/06/18	PES	Peristaltic	–	–	–	–	<b>181</b>	<b>12.1</b>	<b>26.6</b>	<b>28.4</b>	1.99	U	1.53	U	0.933	U	1.52	U	1.18	U							
SCS-2  (duplicate)	–	800 Aloha St Parcel	03/20/17	PES	Peristaltic	<b>1,660</b>	–	–	–	<b>51.8</b>	<b>9.54</b>	<b>155</b>	<b>181</b>	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U							
			06/12/17	PES	Peristaltic	<b>901</b>	–	–	–	<b>58.9</b>	<b>4.49</b>	<b>141</b>	<b>70.4</b>	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U							
			04/13/18	PES	Peristaltic	–	–	–	–	<b>44.3</b>	<b>5.18</b>	<b>37.3</b>	<b>47.7</b>	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U							
			07/18/19	PES	Peristaltic	<b>2,190</b>	–	–	–	<b>15.5</b>	<b>3.71</b>	<b>141</b>	<b>149</b>	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U							
			07/18/19	PES	Peristaltic	<b>2,320</b>	–	–	–	<b>15.0</b>	<b>3.37</b>	<b>187</b>	<b>131</b>	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U							



Table 3

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)											
						GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
Screening Level						800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2
SMW-3	-	Valley St ROW	03/30/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U
			06/21/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U
			04/09/18	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U
<b>Decommissioned Wells</b>																	
R-MW4	25.94 to 10.94	Roy St ROW	10/24/92	Roux	Unknown	410	201	1000 U	0.5 U	2	1	4	814	64	-	5 U	5 U
			10/24/92	DOF	Unknown	640	-	-	0.5 U	1.8	0.5 U	3.1	31	2.8	2.0 U	-	2.0 U
Decommissioned before 2009																	
MW-1	-	800 Aloha St Parcel	03/22/93	EPJ	Bailer	5,100	500 U	1000 U	10,000	270	480	427	-	-	-	-	-
			06/17/93	Retec	Unknown	-	-	-	20,000	14,000	840	6,700	-	-	-	-	-
Decommissioned on October 12, 1993																	
MW-2	-	8th Ave North ROW	03/22/93	EPJ	Bailer	650	500 U	1000 U	100	42	24	67	-	-	-	-	-
			06/17/93	Retec	Unknown	-	-	-	28	7.2	1 U	2 U	170	1,400	9,300	25	1,100
Decommissioned on October 12, 1993																	
MW-3	-	800 Aloha St Parcel	03/22/93	EPJ	Bailer	27,000	500 U	1000 U	1,500	3,300	690	3,500	-	-	-	-	-
			06/17/93	Retec	Unknown	-	-	-	4,800	21,000	1,900	12,300	-	-	-	-	-
Decommissioned on October 12, 1993																	
MW-4	-	800 Aloha St Parcel	03/22/93	EPJ	Bailer	940	500 U	1000 U	82	390	39	108	-	-	-	-	-
			06/17/93	Retec	Unknown	-	-	-	1 U	1 U	1 U	2 U	-	-	-	-	-
Decommissioned on October 12, 1993																	
MW-5	-	8th Ave North ROW	03/22/93	EPJ	Bailer	670	500 U	1000 U	49	140	9.8	80	-	-	-	-	-
			06/17/93	Retec	Unknown	-	-	-	1 U	1 U	1 U	2 U	-	-	-	-	-
Decommissioned on October 12, 1993																	
Number of Analytes Measured						115	25	25	161	161	161	161	167	167	163	161	167
Number of Analytes Detected						50	16	8	67	61	36	42	100	87	110	53	94
Frequency of Detection						43%	64%	32%	42%	38%	22%	26%	60%	52%	67%	33%	56%
Maximum Detection						150,000	26,000	25,000	20,000	22,000	3,100	15,000	176,000	13,000	9,300	1,000	1,100
Minimum Detection						31.6 U	34.0	250 U	0.001 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U

**Notes:**  
VOCs analyzed by EPA Methods 8015, 8020, 8021B, 8240, 8260B, or 8260C or by Purge and Trap Gas Chromatogram/Mass Spectrometry or EPA Method 601, 8010S, 8240, 8260B, or 8260C.  
\* = Monitoring well was installed at a 25 degree angle from the vertical point of penetration.  
(dup) = duplicate  
cDCE = cis-1,2-dichloroethene  
DOF = Dalton, Olmsted & Fuglevand, Inc.  
DRO = diesel-range organics  
GeoE = GeoEngineers, Inc.  
GRO = gasoline-range organics  
MTCA = Washington State Model Toxics Control Act  
ORO = oil-range organics  
PCE = perchloroethylene (tetrachloroethene)  
Roux = Roux Associates  
SES = SoundEarth Strategies, Inc.

TCE = trichloroethene  
tDCE = trans-1,2-dichloroethene  
VC = vinyl chloride  
WAC = Washington Administrative Code  
WW = Windward Environmental LLC

**Laboratory and Results Notes:**  
Detected results shown in bold, detections above the screening level highlighted in gray  
- = Not analyzed or results not available  
B = the same analyte is found in the associated blank  
c = Reported as total 1,2,-DCE (sum of cis,-1,2- and trans,1-2-DCE isomers)  
E = Estimated value. The reported range exceeds the calibration range of the analysis  
f = Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank

g = Estimated value. The reported range exceeds the calibration range of the analysis  
J = the identification of the analyte is acceptable; the reported value is an estimate  
qp = Hydrocarbon result partly due to individual peak(s) in quantitation range  
U = not detected at or above the laboratory method detection limit (MDL)  
x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation  
y = The GRO result in the sample is due to a pattern of peaks that is consistent with the chlorinated volatiles detected by the 8260C analysis

Table 4

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2	
<b>Intermediate A Water-Bearing Zone, On Property</b>																	
G-MW1 (9.01 to 4.01)  (duplicate)	The Property	07/24/01	Geo	Peristaltic	–	–	–	0.449	17.6 E	0.798	5.52	85,500	1,130	23.3 g	0.956	74.5 g	
		01/29/09	DOF	Peristaltic	41,300 qp	–	–	20.0 U	20.0 U	28.6	55.1	78,400 f	1,160	34.4 g	1.49	0.200 U	
		06/03/11	SES	Peristaltic	29,000 x	92 x	250 U	–	–	–	–	78,000	1,100	22	–	33	
		09/06/12	SES	Peristaltic	–	–	–	0.35 U	7.4	1 U	1.1	66,000	1,100	32	1.5	35	
		09/06/12	SES	Peristaltic	–	–	–	0.35 U	7.6	1 U	1.0	64,000	1,100	30	1.4	33	
		Decommissioned															
G-MW3 (13.55 to 3.55)	The Property	07/24/01	Geo	Peristaltic	–	–	–	0.524	6.93 E	0.459	2.10	47,700	385 g	0.200 U	3.71	42.5 g	
		12/10/04	DOF	Bailer	–	–	–	2 U	7	2 U	2	220,000	1,200	570	6	19	
		01/29/09	DOF	Peristaltic	26,600 qp	–	–	12.5 U	12.5 U	12.5 U	25.0 U	64,000 f	1,580	4,050	13.9	0.200 U	
		06/02/11	SES	Peristaltic	19,000 xy	210 x	250 U	350 U	1,000 U	1,000 U	3,000 U	33,000	1,400	1,500	1000 U	290	
		09/06/12	SES	Peristaltic	–	–	–	0.35 U	1.5	1 U	3 U	31,000	1,200	1,600	5.9	290	
		Decommissioned															
MW131 (-4.61 to -14.61)	Property	03/27/17	SES	Peristaltic	91.9 J	–	–	0.199 J	0.462 J	0.158 U	0.316 U	0.199 U	0.153 U	243	0.981	804	
		06/20/17	PES	Peristaltic	31.6 U	–	–	0.448 U	2.06 U	0.790 U	1.58 U	0.995 U	0.765 U	2.55	0.760 U	435	
		04/16/18	PES	Peristaltic	55.3 U	–	–	0.142 J	0.412 U	0.158 U	0.316 U	7.05	3.25	10.4	0.276 J	18.0	
		10/25/18	PES	Peristaltic	57.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.895	0.347 J	1.65 J+	0.152 U	1.83	
		12/12/18	PES	Peristaltic	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.172 J	1.2	0.152 U	1.39	
		1/29/19	PES	Peristaltic	43.7 J	–	–	0.182 J	0.516 J+	0.158 U	0.316 U	0.199 U	0.153 U	0.774	0.152 U	0.539	
		3/11/19	PES	Peristaltic	31.6 U	–	–	0.152 J	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.250 J	0.152 U	0.118 U	
		Decommissioned March 2019															
MW-149 (0.66 to -9.34)  (duplicate)	Property	04/10/18	PES	Peristaltic	11,700 z	–	–	44.8 U	2.06 U	0.813 J	1.64 J	19,200	8,050	10,500	29.8	863	
		10/25/18	PES	Peristaltic	4,570	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	6,100	2,720	3,320	15.3	100	
		12/13/18	PES	Peristaltic	11,400	–	–	0.0896 U	0.717	0.158 U	0.414 J	23,300	5,470	5,150	18.2	253	
		12/13/18	PES	Peristaltic	11,400	–	–	0.0896 U	0.717	0.158 U	0.392 J	24,500	5,780	5,210	18.2	243 J	
		01/29/19	PES	Peristaltic	14,400 J+	–	–	8.96 U	41.2 U	15.8 U	31.6 U	23,700	3,800	4,350	15.2 U	155	
		03/13/19	PES	Peristaltic	15,300 J+	–	–	0.222 J	0.862	0.843	0.490 J	2,630	2,770	30,800	129	285	
		Decommissioned March 2019															
MW-151 (4.94 to -5.06)	Property	04/10/18	PES	Peristaltic	74.6 U	–	–	0.253 J	0.412 UJ	0.158 UJ	0.316 U	1.13	0.310 J	59.1 J-	0.388 J-	11.4	
		10/25/18	PES	Peristaltic	99.4 U	–	–	0.167 J	0.412 U	0.158 U	0.316 U	2.28	1.38	5.80	0.346 J	7.7	
		12/14/18	PES	Peristaltic	1,040	–	–	0.342 J	0.44 J	0.158 U	0.316 U	1,460	155	1,690	4.56	530	
		1/31/19	PES	Peristaltic	340 J+	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	106	40.4	466	3.52	158	
		3/12/19	PES	Peristaltic	143	–	–	0.159 J	0.412 U	4.88	0.316 U	0.981	1.36	196	1.60	24.9	
		Decommissioned March 2019															
<b>Intermediate A Water-Bearing Zone, Off Property</b>																	
BB-5	South of Mercer St ROW	11/17/97	B&V	Bailer	250 U	630 U	630 U	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND
		Decommissioned															
BB-7	Westlake Ave North ROW	11/17/97	B&V	Bailer	250 U	630 U	630 U	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Decommissioned															

Table 4

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																							
					GRO		DRO		ORO		Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE		TCE		cDCE		tDCE		VC	
Screening Level					800		500		500		0.5		72		29		10,000		2.4		1		16		100		0.2	
BB-8 (13.69 to 3.69)	Roy St ROW	06/24/97	B&V	Bailer	200	U	500	U	1000	U	1.8		1.3		1.0	U	1.0	U	11,000		1,500		4,200		14		280	
		01/29/09	DOF	-	499		-		-		0.694		0.500	U	0.500	U	1.00	U	896	f	258		441		2.45		1.48	
		05/03/10	SES	Peristaltic	-		-		-		-		-		-		-		510		120		110		1	U	0.27	
		06/02/11	SES	Peristaltic	130	xy	50	U	250	U	0.35	U	1	U	1	U	3	U	170		59		44		1	U	0.2	U
		09/05/12	SES	Peristaltic	-		-		-		0.35	U	1	U	1	U	3	U	200		41		28		1	U	0.2	U
		12/29/13	SES	Bladder	-		-		-		0.35	U	1	U	1	U	3	U	200		38		24		1	U	0.2	U
		06/17/15	SES	Peristaltic	-		-		-		-		-		-		-		170		40		37		10	U	2.0	
		03/22/17	PES	Peristaltic	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	30.4		4.95		3.10		0.152	U	0.118	U
		06/14/17	PES	Peristaltic	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	26.0		8.57		12.6		0.155	J	0.118	U
		04/11/18	PES	Peristaltic	40.9	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	33.7	J	6.13	J	4.64	J	0.152	U	0.118	U
		04/11/18	PES	Peristaltic	41.5	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	46.8	J	8.41	J	6.28	J	0.152	U	0.118	U
		01/23/19	PES	Peristaltic	99.6	J	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	133		43.1		81.5		0.402	J	0.618	
		04/23/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	48.8		9.09		7.57		0.152	U	0.118	UJ
		07/17/19	PES	Bladder	112	J+	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	169		28.9		19.3		0.262	J	0.118	U
BB-8A	Roy St ROW	01/29/09	DOF	Peristaltic	669		-		-		0.500	U	0.500	U	0.500	U	1.00	U	1,290	f	285		549		2.96		3.86	
		05/03/10	SES	Peristaltic	-		-		-		-		-		-		-		810		180		140		1.6		0.78	
		06/02/11	SES	Peristaltic	380	xy	50	U	250	U	3.5	U	10	U	10	U	30	U	710		170		170		10	U	2	U
BB-12	9th Ave North ROW	05/19/98	B&V	Bailer	250	U	630	U	630	U	ND		ND		ND		ND		ND		ND		540		ND		380	
		05/02/10	SES	Peristaltic	-		-		-		-		-		-		-		1	U	1	U	1	U	1	U	0.2	U
BB-12A	9th Ave North ROW	05/02/10	SES	Peristaltic	-		-		-		-		-		-		-		1	U	1	U	1	U	1	U	0.2	U
		Decommissioned																										
GEI-MW-1	739 9th Ave N	09/06/14	Geo	Peristaltic	50.0	U	50.0	U	100	U	1.00	U	1.00	U	-		1.00	U	0.250		0.240		1.00	U	0.500	U	0.200	U
GEI-MW-2	739 9th Ave N	09/06/14	Geo	Peristaltic	28.9		50.0	U	100	U	14.1		4.44		-		1.00	U	1.00	U	0.410		1.00	U	0.500	U	1.34	
GEI-MW-3	739 9th Ave N	09/06/14	Geo	Peristaltic	50.0	U	50.0	U	100	U	1.00	U	9.03		-		1.00	U	1.00	U	0.610		1.00	U	0.500	U	3.14	
GEI-1 (1.15 to -8.85)	Block 37	03/24/17	PES	Peristaltic	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
		06/13/17	PES	Bladder	-		-		-		0.0896	U	0.412	U	0.244	J	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
		04/22/19	PES	Peristaltic	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	UJ
		07/16/19	PES	Bladder	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
MW107 (8.81 to -1.18)	8th Ave North ROW (duplicate)	12/21/12	SES	Peristaltic	240,000	xy	190	x	250	U	3.5	U	10	U	10	U	30	U	47,000		2,800		5,100		41		200	
		12/21/12	SES	Peristaltic	-		-		-		-		-		-		-		50,000		3,000		5,200		44		270	
		12/16/13	SES	Peristaltic	-		-		-		0.37	U	1.8		1	U	3.3		32,000		2,400		4,000		34		76	
		06/17/15	SES	Peristaltic	-		-		-		-		-		-		-		1,900		5,000		5,000		100	U	40	
		10/20/15	SES	Peristaltic	-		-		-		-		-		-		-		2,300		5,100		3,600		60		27	
		11/10/15	SES	Peristaltic	-		-		-		-		-		-		-		620		3,800		4,400		54		31	
		12/11/15	SES	Peristaltic	-		-		-		-		-		-		-		1,200		4,200		4,200		57		22	
		01/08/16	SES	Peristaltic	-		-		-		-		-		-		-		1,000		3,600		3,900		50		20	
		02/01/16	SES	Peristaltic	-		-		-		-		-		-		-		61		220		10,000		33		73	
		03/27/17	PES	Peristaltic	-		-		-		0.204	J	0.690	J	0.158	U	0.316	U	0.224	J	0.370	J	6.82		14.0		34.5	
		06/19/17	PES	Peristaltic	-		-		-		0.238	J	0.700		0.158	U	0.316	U	0.199	U	0.290	J	7.29		12.6		15.0	
		04/09/18	PES	Peristaltic	-		-		-		0.193	J	0.412	U	0.158	U	0.316	U	0.879	J-	0.581	J-	72.1	J-	10.5		123	
		01/30/19	PES	Peristaltic	663	J+	-		-		0.215	J	0.715		0.158	U	0.316	U	0.199	U	41.1		1,130		14.4		474	
		05/01/19	PES	Peristaltic	481		-		-		0.188	J	0.412	U	0.158	U	0.316	U	0.199	U	99.9		1,250		14.1		374	
07/22/19	PES	Bladder	210	J+	-		-		0.188	J	0.758		0.158	U	0.609	J	1.99	U	2.62	J	290		7.08		307			

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Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																		
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC							
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2							
MW108 (-7.22 to -17.22)	Alley Between 8th and 9th Ave North	12/21/12	SES	Peristaltic	–	–	–	–	–	–	–	–	3.4	1.8	400	2.1	210						
		12/17/13	SES	Peristaltic	–	–	–	1.9	1	U	1	U	3	3.8	4.6	360	3.6						
		06/17/15	SES	Peristaltic	–	–	–	–	–	–	–	–	4.0	11	370	3.5	260						
		10/20/15	SES	Peristaltic	–	–	–	–	–	–	–	–	3.0	6.4	220	1.8	140						
		02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	–	15	7.9	290	1.8	180						
		03/28/17	PES	Peristaltic	–	–	–	1.59	0.479	U	0.158	U	0.316	U	73.1	12.5	278	0.899	52.3				
		06/27/17	PES	Bladder	–	–	–	1.26	0.479	U	0.158	UJ	0.316	U	194	22.1	165	0.748	52.8				
		04/06/18	PES	Peristaltic	–	–	–	4.00	0.599	–	0.158	UJ	0.316	U	1,970	284	1,030	7.13	217				
		04/06/18	PES	Peristaltic	–	–	–	3.83	0.597	–	0.158	UJ	0.316	U	1,980	287	1,020	7.91	231				
		01/22/19	PES	Peristaltic	–	–	–	1.67	0.562	–	0.158	U	0.316	U	4,190	587	1,180	6.03	90.8				
	04/29/19	PES	Peristaltic	–	–	–	3.20	0.412	U	0.158	U	0.316	U	419	171	970	3.22	125	J				
07/15/19	PES	Peristaltic	–	–	–	2.90	0.412	U	0.158	U	0.316	U	567	189	918	3.48	197						
MW109 (-0.03 to -10.03)	Alley Between 8th and 9th Ave North	12/21/12	SES	Peristaltic	–	–	–	–	–	–	–	–	91	64	18	1	U	1.5					
		12/17/13	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	4.0	18	310	1	U	27				
		06/17/15	SES	Peristaltic	–	–	–	–	–	–	–	–	370	890	520	1.2	26						
		10/20/15	SES	Peristaltic	–	–	–	–	–	–	–	–	230	790	400	20	U	22					
		02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	–	34	330	270	1	U	19					
		03/29/17	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.198	J	12.6	0.152	U	3.49		
		06/27/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	UJ	0.316	U	9.69	J	1.17	1.17	6.06			
		04/06/18	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	1.99	UJ	210	629	3.34	42.2		
		01/23/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.995	U	43.8	403	2.08	36.8		
		04/29/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	4.78	0.152	U	3.06
	07/15/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.265	J	30.8	0.199	J	24.4	
MW110 (4.67 to -5.33)	Alley Between 8th and 9th Ave North	12/21/12	SES	Bladder	–	–	–	–	–	–	–	–	1,100	220	470	3.0	33						
		12/19/13	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	930	240	840	3.9	31					
		04/22/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	1,000	210	340	2.4	1					
		06/17/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	1,000	200	470	10	U	12				
		10/20/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	890	180	380	2.2	13					
		02/01/16	SES	Peristaltic	–	–	–	–	–	–	–	–	–	1,300	290	460	3.0	1.1					
		03/23/17	PES	Peristaltic	–	–	–	0.330	J	0.412	U	0.158	U	0.316	U	1,070	389	644	4.72	1.45			
		06/27/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	UJ	0.316	U	259	176	1,120	2.66	152			
		04/09/18	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	375	J-	253	J-	675	J-	3.72	3.54
		01/23/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	1,260	490	673	5.83	1.39			
	01/23/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	1,120	499	718	6.49	1.51				
04/26/19	PES	Bladder	–	–	–	0.291	J	0.412	U	0.158	U	0.316	U	1,500	613	710	5.59	0.900	J				
07/15/19	PES	Bladder	–	–	–	0.285	J	0.412	U	0.158	U	0.316	U	1,220	455	578	5.87	1.26					
MW114 (10.84 to 0.84)	SDOT property south of Roy Street	12/21/12	SES	Peristaltic	–	–	–	–	–	–	–	–	1,400	290	260	1	U	14					
		12/18/13 Destroyed	SES	Peristaltic	–	–	–	17	U	50	U	50	U	150	U	8,400	1,300	640	50	U	22		

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Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																				
					Screening Level					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC				
					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2									
MW115 (-0.86 to -10.86)	9th Ave North ROW	12/13/12	SES	Peristaltic	–	–	–	–	–	–	–	–	15	1.1	3.0	1	U	2.6							
		12/21/12	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	3.0	1	U	16							
		12/19/13	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	1	U	1	U	1	U	0.75					
		04/21/15	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	17	170	1	U	20						
		06/25/15	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	1	U	1	U	6.2				
		10/27/15	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	1	U	1	U	0.31				
		02/03/16	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	1	U	1	U	2.3				
		03/22/17	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.643	0.152	U	15.7		
		06/22/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.523	0.152	U	8.45		
		04/11/18	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.272	J	0.152	U	5.81	
		01/30/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.316	J	0.152	U	12.4	
		07/17/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.787	0.152	U	24.3		
MW116 (-3.64 to -13.64)	9th Ave North ROW	12/07/12	SES	Peristaltic	–	–	–	–	–	–	–	–	6.8	1	U	1	U	1	U	0.2	U				
		12/21/12	SES	Peristaltic	–	–	–	–	–	–	–	–	2.7	1	U	1	U	1	U	1	U	0.2	U		
		12/19/13	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	0.2	U		
		06/25/15	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	1	U	1	U	1	U	0.2	U	
		10/27/15	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	1	U	1	U	1	U	0.2	U	
		02/03/16	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	1	U	1	U	1	U	0.2	U	
		03/21/17	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
		06/16/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.303	J	0.0933	U	0.152	U	0.118	U
		04/11/18	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
		01/30/19	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.655	0.152	U	0.118	U	
07/17/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U		
MW117 (16.90 to 1.90)	Dexter Ave North ROW	02/08/13	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	1	U	1	U	0.2	U			
		12/18/13 Destroyed	SES	Peristaltic	100	U	50	U	250	U	0.35	U	1	U	1	U	1	U	1	U	1	U	0.2	U	
MW118 (12.91 to 2.91)	Mercer St ROW	03/25/13	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	1	U	1	U	0.2	U			
		12/18/13 Destroyed	SES	Peristaltic	100	U	50	U	250	U	0.35	U	1	U	1	U	1	U	1	U	1	U	0.2	U	
MW119 (2.35 to -7.65)	9th Ave North ROW	03/25/13	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	3.3	1	U	0.2	U				
		12/19/13	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	3	U	1	U	2.5	1	U	0.76				
		04/21/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	34	42	50	1	U	3.1						
		06/17/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	4.9	7.1	52	1	U	2.7						
		10/20/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	15	22	74	1	U	0.45						
		02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	–	–	7.3	24	100	1	U	0.45						
		03/29/17	PES	Peristaltic	–	–	–	0.139	U	0.412	U	0.158	U	0.316	U	5.47	10.7	42.9	0.334	J	0.272	J			
		06/28/17	PES	Bladder	–	–	–	0.0896	U	0.726	U	0.158	U	0.562	J	19.0	12.4	5.99	0.167	J	0.118	U			
		04/05/18	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	2.14	3.02	18.3	0.203	J	0.118	U			
		01/21/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	1.24	0.153	U	0.0933	U	0.152	U	0.118	U	
04/29/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.224	J	1.12	10.9	0.161	J	0.118	U				
07/19/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.303	J	0.153	U	0.340	J	0.152	U	0.118	U		

Table 4

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																						
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC											
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2											
MW120 (0 to -10)	8th Ave North ROW        (duplicate)	12/19/13	SES	Peristaltic	100	U	50	U	440	x	0.35	U	1	U	1	U	3	U	2.8	2.3	19	1	U	9.6			
		06/16/15	SES	Peristaltic	-		-		-		-		-		-		-		1	U	1	U	4.3	1	U	0.2	U
		10/20/15	SES	Peristaltic	-		-		-		-		-		-		-		1	U	1.1	5.2	1	U	0.94		
		02/01/16	SES	Peristaltic	-		-		-		-		-		-		-		1.3	1.6	6.7	1	U	1.1			
		03/28/17	PES	Peristaltic	-		-		0.0896	U	0.458	U	0.158	U	0.316	U	13.9	5.81	18.4	0.152	U	0.871					
		06/28/17	PES	Bladder	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	18.0	6.97	16.0	0.152	U	0.988					
		04/09/18	PES	Peristaltic	31.6	U	-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	0.153	U	0.811	0.152	U	0.118	U			
		01/24/19	PES	Peristaltic	105	J+	-		0.0896	U	0.412	U	0.158	U	0.316	U	125	34.3	60.5	0.194	J	1.64					
		05/03/19	PES	Peristaltic	111	J+	-		0.0896	U	0.412	U	0.158	U	0.316	U	155	46.9	87.2	0.258	J	1.28					
05/03/19	PES	Peristaltic	138	J+	-		0.0896	U	0.412	U	0.158	U	0.316	U	182	51.1	89.0	0.227	J	1.30							
07/16/19	PES	Peristaltic	152	J+	-		0.0896	U	0.412	U	0.158	U	0.316	U	134	40.1	74.9	0.217	J	1.01							
MW127 (-0.96 to -10.96)	8th Ave North ROW	01/03/14	SES	Peristaltic	-		-		0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	0.29		
		01/13/14	SES	Peristaltic	-		-		0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	0.30		
		08/01/19	PES	Peristaltic	31.6	U	-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.489	J	0.152	U	0.118	U	
MW-142 (2.44 to -7.56)	8th Ave North ROW    (duplicate)	04/27/18	PES	Peristaltic	49.3	U	-		0.514	J	0.412	U	0.158	U	0.316	U	0.523	1.40	46.1	0.474	J	17.2					
		01/28/19	PES	Peristaltic	31.6	U	-		0.442	J	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	5.62	0.152	U	3.45			
		01/28/19	PES	Peristaltic	31.6	U	-		0.410	J	0.412	U	0.158	U	0.316	U	0.199	U	0.208	J	5.67	0.152	U	3.38			
		04/24/19	PES	Peristaltic	31.6	U	-		0.361	J	0.412	U	0.158	U	0.316	U	0.199	U	0.156	J	5.67	0.152	U	4.39	J		
		07/25/19	PES	Bladder	31.6	U	-		0.413	J	0.412	U	0.158	U	0.316	U	0.199	U	0.218	J	7.70	0.169	J	6.57			
MW-144 (3.87 to -6.13)	8th Ave North ROW	04/27/18	PES	Peristaltic	364	J	-		0.0896	U	1.40	0.158	U	0.316	U	1.86	3.31	662	4.65	888							
		01/28/19	PES	Peristaltic	31.6	U	-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.251	J	10.4	0.489	J	40.4			
		04/23/19	PES	Peristaltic	31.6	U	-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.158	J	4.09	0.472	J	7.30	J		
MW-146 (12.94 to 2.94)	Roy St    (duplicate)	04/30/18	PES	Bladder	597		-		0.0896	U	0.412	U	0.158	U	0.316	U	3.56	48.4	900	6.12	2,100						
		01/22/19	PES	Peristaltic	509	J+	-		0.0896	U	0.412	U	0.158	U	0.316	U	2.29	21.6	1,080	7.25	1,370						
		04/24/19	PES	Bladder	88.0	J	-		0.0896	U	0.412	U	0.158	U	0.316	U	1.50	12.4	257	1.94	383						
		07/19/19	PES	Bladder	46.3	J	-		0.0896	U	0.412	U	0.158	U	0.316	U	3.08	14.4	257	J	3.29	580	J				
		07/19/19	PES	Bladder	262	J+	-		0.0896	U	0.412	U	0.158	U	0.316	U	2.80	15.9	371	3.50	842	J					
MW-156 (2.04 to -7.96)	8th Ave North ROW    (duplicate)	04/26/18	PES	Peristaltic	1,690	z	-		0.283	J	0.479	J	0.158	U	0.316	U	9.95	U	581	2,850	9.97	407					
		01/24/19	PES	Peristalti	1,480	J+	-		0.0896	U	0.412	U	0.158	U	0.316	U	1,720	723	2,050	11.5	11.8	U					
		04/24/19	PES	Peristaltic	2,570		-		0.339	J	0.412	U	0.158	U	0.316	U	1,430	727	1,770	9.41	3.21	J					
		04/24/19	PES	Peristaltic	2,600		-		0.33	J	0.412	U	0.158	U	0.316	U	1,440	717	1,760	9.31	3.34	J					
		07/22/19	PES	Bladder	3,100	J+	-		0.492	J	0.412	U	0.158	U	0.316	U	232	1,270	2,310	14.5	82.0						

Table 4

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																					
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC										
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2										
<b>Intermediate B Water-Bearing Zone, On Property</b>																										
MW130 (-30.88 to -40.88)	Property	03/03/16	SES	Bladder	-	-	-	-	-	-	-	-	6,200	430	300	1	U	38								
	(duplicate)	03/29/17	PES	Bladder	8,890	xy	-	-	1.79	U	8.24	U	3.16	U	6.32	U	721	830	7,880	39.3	U	186				
		06/30/17	PES	Bladder	10,300	Jz	-	-	0.896	U	4.12	U	1.58	U	3.16	U	6,760	J	4,020	20,100	55.6	597				
		06/30/17	PES	Bladder	15,000	Jz	-	-	0.896	U	4.12	U	1.58	U	3.16	U	11,100	J	5,310	21,300	57.3	549				
		05/21/18	PES	Bladder	19,700	z	-	-	0.403	J	1.37	U	0.227	J	1.12	J	13,500	7,400	29,500	114	1,650					
		12/17/18	PES	Bladder	16,400	-	-	-	4.48	U	20.6	U	7.90	U	15.8	U	9,650	3,220	26,400	83.5	1,420					
		01/31/19	PES	Bladder	22,400	J+	-	-	0.377	J	1.51	J+	0.279	J	1.22	J	23,700	4,640	27,700	107	1,740					
Decommissioned March 2019																										
MW-132 (-29.90 to -39.90)	Property	09/25/17	PES	Bladder	95.9	U	-	-	0.448	U	2.06	U	0.790	U	1.58	U	0.995	U	1.95	J	196	0.760	U	1.76	J	
	(duplicate)	04/26/18	PES	Bladder	2,630	z	-	-	0.422	J	0.412	U	0.158	U	0.32	U	2,830	840	3,300	16.3	10.2					
		10/25/18	PES	Peristaltic	48.3	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	3.53	0.750	12.1	0.254	J	158				
		12/13/18	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.995	U	0.765	U	39.8	0.497	J	199		
		1/31/19	PES	Peristaltic	104	J+	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	22.9	1.95	108	0.506	269					
		3/11/19	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	7.03	1.22	22.8	0.302	J	57.3				
Decommissioned March 2019																										
MW-134 (-38.55 to -48.55)	Property	09/22/17	PES	Bladder	-	-	-	0.448	U	2.06	U	0.790	U	1.58	U	0.995	U	0.765	U	86.2	0.760	U	229			
	(duplicate)	04/16/18	PES	Peristaltic	42.1	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	1.49	0.153	U	0.287	J	0.152	U	68.6		
		10/25/18	PES	Bladder	38.2	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	20.9	
		12/12/18	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.259	J	0.152	U	21.9	
		01/28/19	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.609	0.152	U	32.4		
		03/12/19	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.550	0.152	U	17.7		
Decommissioned March 2019																										
MW-135 (-30.89 to -40.89)	Property	09/25/17	PES	Bladder	10,900	z	-	-	8.96	U	41.2	U	15.8	U	31.6	U	10,400	2,480	16,100	15.2	U	82.0	J			
	(duplicate)	04/25/18	PES	Peristaltic	347,000	z	-	-	0.434	J	3.09	U	0.484	J	2.61	U	75,800	7,890	27,700	30.7	989					
		10/25/18	PES	Peristaltic	31,800	-	-	-	2.24	U	10.3	U	3.95	U	7.90	U	45,900	8,330	40,400	54.4	1,170					
		12/13/18	PES	Peristaltic	80,000	-	-	-	4.48	U	20.6	U	7.90	U	15.8	U	97,200	11,000	42,100	66.6	1,380					
		01/31/19	PES	Bladder	42,700	J+	-	-	0.695	J	5.12	J+	0.571	J	3.43	J	56,500	9,530	37,400	68.6	1,090					
		03/13/19	PES	Bladder	32,700	J+	-	-	0.496	J	2.43	U	0.329	J	1.90	U	57,300	8,150	37,200	74.3	706					
Decommissioned March 2019																										
MW-136 (-32.73 to -42.73)	Property	09/25/17	PES	Bladder	55.2	U	-	-	0.332	J	0.412	U	0.158	U	0.316	U	15.4	10.7	18.7	0.152	U	0.118	U			
	(duplicate)	04/16/18	PES	Submersible	256	-	-	-	0.260	J	1.83	U	4.83	U	25.9	U	2.59	0.365	J	4.73	0.152	U	8.57			
		10/29/18	PES	Bladder	31.9	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.177	J	1.44	0.152	U	0.236	J	
		12/13/18	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.237	J	0.962	0.152	U	0.118	U	
		02/01/19	PES	Bladder	44.5	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	1.26	0.293	U	0.851	0.152	U	0.186	J		
		03/12/19	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.206	J	0.153	U	0.330	J	0.152	U	0.118	U
		03/12/19	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.262	J	0.153	U	0.378	J	0.152	U	0.118	U
Decommissioned March 2019																										

Table 4

**Groundwater Analytical Data for Intermediate Zone Wells  
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Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)													
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC		
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2		
MW-139 (-30.19 to -40.19)	Property	09/25/17	PES	Bladder	62.2 U	-	-	0.0896 U	0.516	0.158 U	0.316 U	0.199 U	0.153 U	1.42	0.152 U	0.246 J		
		04/25/18	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.175 J	0.152 U	0.118 U		
		10/25/18	PES	Peristaltic	47.4 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	1.29	0.282 J	0.454 U	0.152 U	0.118 U		
		12/12/18	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.216 J	0.152 U	0.118 U		
		01/28/19	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U		
		03/11/19	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.187 J	0.152 U	5.77		
Decommissioned March 2019																		
MW-150 (-13.25 to -23.25)	Property	04/10/18	PES	Peristaltic	7,040 z	-	-	22.4 U	1.63	39.5 U	79.0 U	2,500	3,200	9,710	21.1	766		
		10/25/18	PES	Peristaltic	14,600	-	-	0.413 J	2.53	0.226 J	1.13 J	15,200	8,800	17,700	49.7	1,430		
		12/12/18	PES	Peristaltic	17,500	-	-	0.429 J	1.04	0.158 U	0.316 U	75.6	533	32,800	242	2,040		
		01/29/19	PES	Peristaltic	11,900 J+	-	-	8.96 U	41.2 U	15.8 U	31.6 U	303	548	18,100	36.7 J	1,370		
		03/13/19	PES	Peristaltic	7,540 J+	-	-	0.165 J	0.412 U	0.185 J	0.316 U	36.0	262	15,000	50.5	479		
Decommissioned March 2019																		
MW-152 (-10.15 to -20.15)	Property	04/10/18	PES	Peristaltic	40,600 z	-	-	224 U	8.24 U	3.27 J	790 U	67,300	6,550	35,300	42.1	3,660		
		10/26/18	PES	Peristaltic	36,700	-	-	4.48 U	20.6 U	7.90 U	15.8 U	1,960	3,150	73,000	109	4,510		
		12/14/18	PES	Peristaltic	47,300	-	-	2.24 U	10.3 U	3.95 U	7.90 U	23,600 J+	6,870 J+	77,100 J+	134 J+	7,830 J+		
		01/31/19	PES	Peristaltic	44,300 J+	-	-	0.416 J	2.61 J+	0.342 J	2.10	38,300	3,920	58,400	101	9,600		
		03/12/19	PES	Peristaltic	55,900 J+	-	-	2.24 U	10.3 U	3.95 U	7.90 U	398 U	18,700	127,000	781	11,000		
Decommissioned March 2019																		
W-MW-03 (-30.77 to -40.77)	Property	02/03/12	WW	Bladder	-	-	-	20 U	20 U	20 U	60 U	5,300	220	160	20 U	20 U		
		09/06/12 Decommissioned	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	13	2.6	20	1 U	120		
W-MW-04* (-32.47 to -41.47)	Property	02/03/12	WW	Bladder	-	-	-	20 U	20 U	20 U	60 U	5,400	160	54	20 U	20 U		
		09/06/12 Decommissioned	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	460	440	1,900	4.0	630		
<b>Intermediate B Water-Bearing Zone, Off Property</b>																		
BB-10	Dexter Ave North ROW	11/13/97	B&V	Bailer	250 U	630 U	630 U	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BB-13	Westlake Ave North ROW	1998	B&V	Bailer	250 U	630 U	630 U	ND	ND	ND	ND	ND	ND	2.6	ND	1.1		
		05/02/10 Decommissioned	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U		
BB-14	North Valley St ROW	1998 Decommissioned	B&V	Bailer	300 U	630 U	630 U	-	-	-	-	-	-	-	-	-		



Table 4

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																					
					Screening Level					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC					
					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2										
MW111 (-33.52 to -43.52)	Alley Between 8th and 9th Ave North	12/21/12	SES	Bladder	–	–	–	–	–	–	–	–	110	32	37	1	U	1.8								
		12/17/13	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	3	U	1	U	4.7	1	U	17					
		04/22/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	–	–	1	U	1.7	1	U	18					
		06/17/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	–	–	1	U	1.5	1	U	20					
		10/20/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	–	–	1	U	1	U	1	U	8.2				
		02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	–	–	–	–	1	U	1	U	2.3	1	U	5.8			
		03/23/17	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	1.40	0.152	U	5.22			
		06/14/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>0.408</b>	<b>J</b>	1.24	0.152	U	3.22			
		04/06/18	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.618</b>	0.153	U	16.5	0.152	U	121				
		01/23/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.492</b>	<b>J</b>	<b>0.176</b>	<b>J</b>	1.70	0.152	U	37.6			
		04/22/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	3.18	0.152	U	19.5	<b>J</b>		
07/15/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>0.596</b>	0.152	U	15					
MW112 (-17.51 to -27.51)	Dexter Ave North ROW	12/21/12	SES	Bladder	–	–	–	–	–	–	–	–	1	U	1	U	1	U	1	U	1	U	0.2	U		
		12/26/13	SES	Bladder	–	–	–	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	0.2	U	
		03/22/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		06/16/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		04/12/18	PES	Bladder	31.6	U	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		12/21/18	PES	Bladder	31.6	U	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		04/22/19	PES	Bladder	31.6	U	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		07/16/19	PES	Bladder	31.7	U	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
MW126 (-54.06 to -64.06)	Alley Between 8th and 9th Ave North	01/03/14	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	0.2	U	
		03/28/17	PES	Peristaltic	–	–	–	<b>0.148</b>	<b>J</b>	0.563	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>0.283</b>	<b>J</b>	0.152	U	0.118	U	
		06/15/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	<b>0.179</b>	<b>J</b>	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		04/06/18	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		01/22/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		04/29/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		07/18/19	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
MW-143 (-27.67 to -37.57)	8th Ave North ROW	04/30/18	PES	Peristaltic	<b>154</b>	–	–	<b>0.244</b>	<b>J</b>	<b>0.797</b>	<b>0.212</b>	<b>J</b>	<b>1.08</b>	<b>J</b>	0.199	U	0.153	U	<b>129</b>	<b>0.512</b>	<b>193</b>					
		01/29/19	PES	Bladder	31.6	U	–	–	<b>0.141</b>	<b>J</b>	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>0.241</b>	<b>J</b>	0.152	U	0.118	U
		04/24/19	PES	Peristaltic	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
		07/19/19	PES	Bladder	–	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>0.309</b>	<b>J</b>	0.152	U	0.118	U
MW-145 (-26.14 to -36.14)	8th Ave North ROW	04/27/18	PES	Bladder	52.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>0.212</b>	<b>J</b>	<b>2.29</b>	0.152	U	<b>3.88</b>		
		01/29/19	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>0.316</b>	<b>J</b>	0.152	U	<b>0.335</b>	<b>J</b>
		04/26/19	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	<b>0.392</b>	<b>J</b>
MW-147 (-17.64 to -27.64)	Roy St ROW  (duplicate)	05/01/18	PES	Bladder	<b>484</b>	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>19.8</b>	<b>83.4</b>	<b>399</b>	<b>2.09</b>	<b>1,150</b>						
		01/22/19	PES	Bladder	<b>663</b>	<b>J</b>	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>98.2</b>	<b>179</b>	<b>1,230</b>	<b>2.88</b>	<b>738</b>					
		04/23/19	PES	Bladder	<b>139</b>	<b>J+</b>	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>5.13</b>	<b>322</b>	<b>1.47</b>	<b>499</b>				
		07/18/19	PES	Bladder	<b>175</b>	<b>J+</b>	–	–	0.0896	U	0.412	U	3.16	U	6.32	U	0.199	U	<b>4.79</b>	<b>219</b>	<b>2.49</b>	<b>446</b>				
		07/18/19	PES	Bladder	<b>170</b>	<b>J+</b>	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>4.72</b>	<b>286</b>	<b>2.12</b>	<b>425</b>				

Table 4

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Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																							
					GRO		DRO		ORO		Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE		TCE		cDCE		tDCE		VC	
					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2												
MW-148 (-25.73 to -35.73)	Roy St ROW (duplicate)	05/01/18	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U		
		05/01/18	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>0.216</b>	<b>J</b>	0.152	U	0.118	U		
		01/23/19	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	<b>1.24</b>		<b>0.347</b>	<b>J</b>	0.0933	U	0.152	U	0.118	U		
		04/26/19	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	<b>0.277</b>	<b>J</b>		
		07/22/19	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.415	U	0.153	U	0.0933	U	0.152	U	<b>0.253</b>	<b>J</b>		
MW-157 (-28.29 to -38.19)	8th Ave North ROW	04/26/18	PES	Peristaltic	<b>65.7</b>	<b>J</b>	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.950</b>		<b>0.240</b>	<b>J</b>	<b>10.4</b>		<b>0.246</b>	<b>J</b>	<b>104</b>			
		01/24/19	PES	Peristaltic	<b>1,870</b>	<b>J+</b>	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>1.65</b>		<b>4,250</b>		<b>14.2</b>		<b>674</b>			
		04/24/19	PES	Peristaltic	<b>3,210</b>		-	-	<b>0.254</b>	<b>J</b>	0.412	U	0.158	U	0.316	U	9.95	U	<b>8.52</b>	<b>J</b>	<b>3,550</b>		<b>15.9</b>		<b>622</b>			
		07/22/19	PES	Bladder	<b>3,880</b>	<b>J+</b>	-	-	<b>0.327</b>	<b>J</b>	0.412	U	0.158	U	0.316	U	19.9	U	<b>27.6</b>		<b>4,530</b>		<b>18.4</b>		<b>666</b>			
PW-1	North Valley St ROW	1997 (8 hour)	B&V	Bailer	250	U	630	U	630	U	ND		ND		ND		ND		ND		ND		ND		ND			
		1997 (Final) Decommissioned	B&V	Bailer	250	U	630	U	630	U	ND		ND		ND		ND		ND		ND		ND		ND			
W-MW-01 (-25.12 to -35.12)	8th Ave North ROW	02/02/12	WW	Bladder	-		-	-	20	U	<b>0.1</b>	<b>J</b>	0.2	U	0.6	U	<b>46</b>		<b>3.9</b>		<b>11</b>		0.2	U	<b>0.5</b>			
		09/06/12	SES	Peristaltic	-		-	-	0.35	U	<b>1.7</b>		1	U	3	U	1	U	1	U	<b>2.0</b>		1	U	<b>2.8</b>			
		06/17/15	SES	Peristaltic	-		-	-	-					-		1	U	1	U	1	U	1	U	1	U	<b>0.46</b>		
		10/20/15	SES	Peristaltic	-		-	-	-					-		1	U	1	U	1	U	1	U	1	U	<b>0.88</b>		
		01/08/16	SES	Peristaltic	-		-	-	-					-		1	U	1	U	1	U	1	U	1	U	<b>2.5</b>		
		02/01/16	SES	Peristaltic	-		-	-	-					-		1	U	1	U	1	U	1	U	1	U	<b>2.8</b>		
		03/30/17	PES	Peristaltic	-		-	-	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.330</b>	<b>J</b>	<b>0.203</b>	<b>J</b>	<b>0.491</b>	<b>J</b>	0.152	U	<b>1.83</b>	<b>J</b>		
		06/19/17	PES	Bladder	-		-	-	<b>0.158</b>	<b>J</b>	<b>0.931</b>		0.158	U	0.316	U	0.199	U	0.153	U	<b>0.320</b>	<b>J</b>	0.152	U	<b>1.09</b>			
		04/13/18	PES	Bladder	37.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	<b>5.33</b>		<b>1.68</b>		<b>1.31</b>		0.152	U	<b>8.79</b>			
		10/29/18	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.22</b>	<b>J</b>	<b>0.696</b>		<b>0.629</b>		0.152	U	<b>3.9</b>			
		12/13/18	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>1.77</b>		<b>0.538</b>		0.152	U	<b>3.86</b>			
		01/25/19	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>0.587</b>		<b>0.459</b>	<b>J</b>	0.152	U	<b>5.46</b>			
		03/11/19	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.520</b>		<b>0.301</b>	<b>J</b>	<b>0.396</b>	<b>J</b>	0.152	U	<b>7.24</b>			
		04/25/19	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>0.373</b>	<b>J</b>	<b>0.572</b>		0.152	U	<b>6.61</b>	<b>J</b>		
		07/23/19	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>0.304</b>	<b>J</b>	<b>0.547</b>		0.152	U	<b>9.00</b>			

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Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)											
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2
W-MW-02 (-26.54 to -36.54)	8th Ave North ROW	02/03/12	WW	Bladder	–	–	–	20 U	20 U	20 U	60 U	<b>6,900</b>	<b>1,700</b>	<b>2,000</b>	20 U	<b>120</b>
		08/13/12	SES	Peristaltic	–	–	–	–	–	–	–	<b>3,000</b>	<b>1,300</b>	<b>2,200</b>	4.1	<b>66</b>
		09/05/12	SES	Peristaltic	–	–	–	0.35 U	<b>1.4</b>	1 U	3 U	<b>2,600</b>	<b>1,300</b>	<b>2,800</b>	5.0	<b>69</b>
		01/03/14	SES	Peristaltic	–	–	–	0.35 U	1 U	1 U	3 U	<b>490</b>	<b>1,200</b>	<b>4,400</b>	7.3	<b>67</b>
		06/17/15	SES	Peristaltic	–	–	–	–	–	–	–	10 U	10 U	<b>13,000</b>	95	<b>2,400</b>
		10/20/15	SES	Peristaltic	–	–	–	–	–	–	–	5 Uht	5 Uht	<b>12,000 ht</b>	97 ht	<b>1,700 ht</b>
		11/10/15	SES	Peristaltic	–	–	–	–	–	–	–	1 U	<b>3.4</b>	<b>480</b>	3.6	<b>110</b>
		12/11/15	SES	Peristaltic	–	–	–	–	–	–	–	1 U	<b>4.9</b>	<b>900</b>	6.2	<b>2,900</b>
		01/08/16	SES	Peristaltic	–	–	–	–	–	–	–	1 U	<b>3.1</b>	<b>750</b>	26	<b>7,500</b>
		02/01/16	SES	Peristaltic	–	–	–	–	–	–	–	1 U	<b>4.6</b>	<b>2,900</b>	35	<b>2,800</b>
		03/27/17	PES	Peristaltic	–	–	–	<b>0.270 J</b>	<b>0.961 J</b>	0.158 U	0.316 U	0.199 U	<b>0.259 J</b>	<b>33.0</b>	2.16	<b>36.4</b>
		06/19/17	PES	Bladder	–	–	–	<b>0.307 J</b>	<b>0.970</b>	0.158 U	0.316 U	0.199 U	0.153 U	<b>18.2</b>	<b>0.746</b>	<b>25.6</b>
		06/12/18	PES	Bladder	32 U	–	–	0.0896 U	<b>0.829</b>	0.158 U	0.316 U	0.199 U	0.153 U	<b>4.72</b>	<b>0.279 J</b>	<b>4.95</b>
		10/26/18	PES	Peristaltic	90.2 UJ	–	–	0.0896 U	<b>0.641</b>	0.158 U	0.316 U	0.199 U	0.153 U	<b>2.01</b>	<b>0.410 J</b>	<b>1.41</b>
		10/26/18	PES	Peristaltic	<b>246 J+</b>	–	–	0.0896 U	<b>0.587</b>	0.158 U	0.316 U	0.199 U	0.153 U	<b>2.11 J+</b>	<b>0.435 J</b>	<b>1.8</b>
		12/12/18	PES	Peristaltic	158 UJ	–	–	0.0896 U	<b>1.05</b>	0.158 U	0.316 U	0.199 U	0.153 U	<b>1.80</b>	<b>0.463 J</b>	<b>2.30</b>
		01/25/19	PES	Peristaltic	<b>37.4 J</b>	–	–	<b>0.133 J</b>	<b>2.09</b>	0.158 U	0.316 U	0.199 U	0.153 U	<b>1.83</b>	<b>0.263 J</b>	<b>2.01</b>
		03/11/19	PES	Peristaltic	31.6 U	–	–	0.0896 U	<b>1.12</b>	0.158 U	0.316 U	0.199 U	0.153 U	<b>2.41</b>	<b>0.316 J</b>	<b>2.43</b>
		04/23/19	PES	Peristaltic	<b>429 J+</b>	–	–	0.0896 U	<b>0.56</b>	0.158 U	0.316 U	0.199 U	<b>40.1</b>	<b>672</b>	<b>2.35</b>	<b>81.0 J</b>
07/23/19	PES	Bladder	31.6 U	–	–	0.0896 U	<b>1.35</b>	0.158 U	0.316 U	0.199 U	0.153 U	<b>3.30</b>	<b>0.386 J</b>	<b>6.79</b>		
Number of Analytes Measured					148	20	20	243	243	240	243	309	309	309	308	309
Number of Analytes Detected					54	0	0	51	42	14	12	162	193	245	137	233
Frequency of Detection					36%	0%	0%	21%	17%	6%	5%	52%	62%	79%	44%	75%
Maximum Detection					80,000	–	–	14.1	17.6 E	28.6	55.1	220,000	18,700	127,000	781	11,000
Minimum Detection					28.9	50 U	100 U	0.0896 U	0.1 J	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U
<p>Notes:</p> <p>Petroleum Hydrocarbons analyzed by EPA Method 418.1 or 8015-M, NWTPH-HCID, or NWTPH-Gx/NWTPH-Dx.</p> <p>VOCs analyzed by EPA Methods 8015, 8020, 8021B, 8240, 8260B, or 8260C OR by Purge and Trap Gas Chromatogram/Mass Spectrometry or EPA Method 601, 8010S, 8240, 8260B, or 8260C.</p> <p>* Monitoring well was installed at a 25 degree angle from the vertical point of penetration.</p> <p>(dup) = duplicate</p> <p>B&amp;V = Black &amp; Veatch</p> <p>cDCE = cis-1,2-dichloroethene</p> <p>DOF = Dalton, Olmsted &amp; Fuglevand, Inc.</p> <p>DRO = diesel-range organics</p> <p>E = Estimated value. The reported range exceeds the calibration range of the analysis.</p> <p>Geo = GeoEngineers Inc.</p> <p>GRO = gasoline-range organics</p> <p>ORO = oil-range organics</p> <p>PCE = perchloroethylene (tetrachloroethene)</p> <p>ROW = right-of-way</p> <p>SES = SES Strategies, Inc.</p> <p>TCE = trichloroethene</p> <p>tDCE = trans-1,2-dichloroethene</p> <p>VC = vinyl chloride</p> <p>WW = Windward</p> <p>– = not analyzed</p> <p>Detected results shown in bold, detections above the screening level (see Table 3) highlighted in gray</p> <p>f = Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.</p> <p>ht = The analysis was performed outside the method the method or client-specified holding time requirement.</p> <p>J = Estimated concentration.</p> <p>ND = not detected at a concentration exceeding laboratory reporting limit; detection limit not provided</p> <p>pr = The sample was received with incorrect preservation. The value reported should be considered an estimate.</p> <p>U = not detected at or above the laboratory method detection limit (MDL); detections above the screening level highlighted in gray</p> <p>x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation.</p> <p>y = The GRO result in the sample is due to a pattern of peaks that is consistent with the chlorinated volatiles detected by the 8260C analysis.</p> <p>z = No/low level gasoline/petroleum detection; result is likely elevated due to high detections of CVOCs.</p>																

Table 5

Groundwater Analytical Data for Deep Zone Wells  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2	
<b>On Property</b>																	
MW101 (-65.51 to -75.51)	Property	07/20/12	SES	Bladder	-	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U
		09/06/12	SES	Peristaltic	-	-	-	0.35 U	1.4	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
Decommissioned																	
MW-133	Property	09/25/17	PES	Bladder	41.2 U	-	-	0.0896 U	0.748	0.158 U	0.316 U	12.7	16.2	13.3	1.13	0.239 J	
		04/25/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.837	0.158 U	0.316 U	0.646	0.516	10.7	0.315 J	3.51	
		10/26/18	PES	Bladder	458	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	1.92 J+	1.63 J+	7.94	0.257 J	3.43	
		12/12/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	1.71	2.75	7.88	0.454 J	5.95	
		02/01/19	PES	Bladder	46.4 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	22.4	9.29	12.4	0.588	4.36	
		03/13/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	4.45	5.92	7.48	0.483 J	10.8	
Decommissioned March 2019																	
MW-137	Property	09/25/17	PES	Bladder	58.5 U	-	-	0.0896 U	3.90	0.158 U	0.316 U	15.0	19.1	62.0	0.152 U	0.118 U	
		04/12/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	1.79	0.152 U	4.26	
		10/26/18	PES	Bladder	86.9 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.896 J+	0.463 U	0.893 J+	0.152 U	0.118 U	
		12/12/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.437 J	0.152 U	0.357 J	
		02/01/19	PES	Bladder	58.4 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	1.48	0.153 U	0.616	0.152 U	0.365 J	
		03/11/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.344 J	0.153 U	0.275 J	0.152 U	0.179 J	
Decommissioned March 2019																	
MW-141	Property	09/22/17	PES	Bladder	-	-	-	0.0896 U	0.941	0.158 U	0.316 U	0.199 U	0.153 U	0.345 J	0.152 U	0.457 J	
		04/12/18	PES	Submersible	326	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	71.3 J+	25.6 J+	91.6 J+	5.68 J+	7.01 J+	
		10/25/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	3.10	0.152 U	0.118 U	
		12/12/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	1.46	0.152 U	0.520	
		01/30/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.479 J	0.152 U	0.118 U	
		03/11/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.701	0.153 U	1.30	0.152 U	0.557	
Decommissioned March 2019																	
MW-162	Property	02/05/19	PES	Bladder	-	-	-	1.00 U	1.00 U	1.00 U	1.00 U	2,800	613	1,070	9.58	128	
		03/12/19	PES	Peristaltic	690 J+	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	613	538	758	2.63	46.5	
Decommissioned March 2019																	
MW-163 (duplicate)	Property	02/05/19	PES	Bladder	-	-	-	1.00 U	1.00 U	1.00 U	1.00 U	218	150	42.2	1.00 U	2.95	
		02/05/19	PES	Bladder	-	-	-	1.00 U	1.00 U	1.00 U	1.00 U	220	153	40.3	1.00 U	3.45	
		03/12/19	PES	Bladder	319 J+	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	282	334	56.9	2.87	1.10	
Decommissioned March 2019																	
MW-164	Property	02/05/19	PES	Bladder	-	-	-	1.00 U	1.80	1.00 U	1.00 U	871	372	385	3.41	4.41	
		03/12/19	PES	Bladder	565 J+	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	444	327	529	4.24	7.80	
Decommissioned March 2019																	
<b>Off Property</b>																	
FMW-129 (-45 to -50)	SDOT Property South of Roy St	05/23/14	Farallon	Unknown	-	-	-	-	-	-	-	0.40	0.57	17	ND	7.6	
		10/20/15	SES	Persitaltic	-	-	-	-	-	-	-	25	39	250	1 U	0.2 U	
		02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	13	61	240	1 U	0.330	
		04/10/17	PES	Peristaltic	-	-	-	0.448 U	2.06 U	0.790 U	1.58 U	194	492	1,420	5.05	0.885 J	
		06/23/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	81.1	182	474	1.21	0.413	
		05/01/19	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	101	166	372	1.22	0.590 U	
		07/16/19	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	159	84.1	272	1.61	0.296 J	

Table 5

Groundwater Analytical Data for Deep Zone Wells  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
					GRO		DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2	
FMW-131 (-34.65 to -44.65)	Block 37	09/02/16	Farallon	Unknown	Screening Level												
		03/24/17	PES	Peristaltic	–	–	–	–	–	–	–	–	0.20 U	0.20 U	41	0.20 U	1.7
		06/23/17	PES	Bladder	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	45.6	0.152 U	0.249 J	
		12/18/17	Farallon	Unknown	–	–	–	–	–	–	–	–	0.20 U	0.20 U	0.61	0.20 U	0.20 U
		04/22/19	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	10.8	0.152 U	0.195 J	
FMW-3D	Block 31	03/24/17	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		06/23/17	PES	Bladder	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
GEI-2 (-21.12 to -31.12)	Block 37	03/24/17	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	2.25	0.152 U	6.94	
		06/23/17	PES	Bladder	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	16.3	0.152 U	127	
		04/22/19	PES	Peristaltic	–	–	–	1.05	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	11.5	0.152 U	57.7 J	
		07/16/19	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	1.37	0.152 U	46.4	
MW102 (-65.81 to -75.81)	Valley St ROW	08/16/12	SES	Peristaltic	–	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U
		09/05/12	SES	Bladder	–	–	–	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
		12/17/13	SES	Bladder	–	–	–	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
		10/27/15	SES	Bladder	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	1 U	0.2 U
		02/02/16	SES	Bladder	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	1 U	0.2 U
		03/29/17	PES	Bladder	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.223 J	0.152 U	0.118 U	
		06/15/17	PES	Bladder	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		04/25/18	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.352 J	0.153 U	0.0933 U	0.152 U	0.118 U	
		01/24/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.22 J	0.153 U	0.0933 U	0.152 U	0.118 U	
		05/01/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
07/18/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.093 U	0.152 U	0.118 U			
MW103 (-67.58 to -77.58) (duplicate)  (duplicate)	Alley East of 8th Ave North	07/31/12	SES	Peristaltic	–	–	–	–	–	–	–	–	12	25	150	10 U	79
		09/05/12	SES	Peristaltic	–	–	–	0.35 U	1.6	1 U	3 U	8.3	22	80	1 U	110	
		09/05/12	SES	Peristaltic	–	–	–	0.35 U	1.6	1 U	3 U	8.1	22	85	1 U	120	
		12/18/13	SES	Peristaltic	–	–	–	0.35 U	2.4	1 U	3 U	4.3	6.1	8.6	1 U	1.2	
		12/18/13	SES	Peristaltic	–	–	–	0.35 U	2.4	1 U	3 U	4.0	5.2	7.1	1 U	0.94	
		06/17/15	SES	Peristaltic	–	–	–	–	–	–	–	1.8	1.4	1 U	1 U	0.94	
		10/20/15	SES	Peristaltic	–	–	–	–	–	–	–	3.6	1.4	1 U	1 U	1.6	
		02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	1.0	1 U	1.2	1 U	0.53	
		03/29/17	PES	Peristaltic	–	–	–	0.0896 U	0.464 J	0.158 U	0.316 U	1.99 U	23.1	240	0.405 J	157	
		06/14/17	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.626 U	23.0	120	0.369 J	69.2	
		04/06/18	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	1.81	32.4	0.152 U	22.4	
		01/23/19	PES	Peristaltic	–	–	–	0.0896 U	1.35	0.158 U	0.316 U	0.365 J	1.48	11.4	0.152 U	6.68	
		04/22/19	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	3.09	88.0	0.209 J	32.3 J	
		07/15/19	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	2.37	118	0.232 J	55.4	

Table 5

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Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2	
MW104 (-76.32 to -86.32)	8th Ave North ROW	08/16/12	SES	Peristaltic	-	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U
		09/06/12	SES	Bladder	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
		12/17/13	SES	Bladder	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
		10/27/15	SES	Peristaltic	-	-	-	-	-	-	-	-	2.6	4.4	4.3	1 U	0.2 U
		02/02/16	SES	Bladder	-	-	-	-	-	-	-	-	1 U	1.2	19	1 U	0.2 U
		03/30/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	3.97	0.152 U	0.118 U	0.118 U
		06/30/17	PES	Bladder	-	-	-	0.387 J	0.903	0.158 U	0.396 J	5.83	5.21	1.54	0.152 U	0.118 U	
		04/09/18	PES	Peristaltic	81.3 J	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.541	2.00	176	1.02	32.3	
		10/26/18	PES	Bladder	1,570	-	-	0.0896 U	0.618 J+	0.158 U	0.316 U	1.87 J+	2.94 J+	71.2	0.257 J	43.5	
		02/01/19	PES	Bladder	191 J+	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	12.1	3.22	30.6	0.326 J	32.4	
		03/13/19	PES	Bladder	124 J+	-	-	0.0896 U	0.455 J	0.158 U	0.316 U	31.6	75.7	83.0	1.93	25.9	
04/23/19	PES	Bladder	174 J+	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	15.9	56.9	162	2.49	21.1 J			
07/22/19	PES	Bladder	50.4 J	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.282 J	28.3	160	2.10	57.1			
MW105 (-85.83 to -95.83)	Roy Street ROW	08/16/12	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.32	
		09/05/12	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.23
		12/29/13	SES	Bladder	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
		04/12/15	SES	Peristaltic	-	-	-	-	-	-	-	1.2	1.6	1 U	1 U	1 U	0.2 U
		06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	0.2 U
		10/27/15	SES	Bladder	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	0.2 U
		02/03/16	SES	Bladder	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	1.6
		04/21/17	PES	Bladder	-	-	-	0.0896 U	0.544 J	0.158 U	0.316 U	0.199 U	0.153 U	0.155 J	0.152 U	1.95	
		06/14/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.356 J	0.180 J	0.152 U	0.514	
		04/11/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	1.67	0.152 U	0.205 J	
		01/23/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.790	0.317 J	1.51	0.152 U	0.392 J	
04/23/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.917	0.152 U	0.238 J			
07/17/19	PES	Bladder	37.8 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.891	0.152 U	0.265 J			
MW106 (-78.01 to -88.01)	SDOT Property South of Roy St	08/22/12	SES	Bladder	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	
		09/05/12	SES	Bladder	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
		12/17/13	SES	Bladder	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
		10/27/15	SES	Bladder	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	0.2 U
		02/02/16	SES	Bladder	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	0.2 U
		04/14/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		06/30/17	PES	Bladder	-	-	-	0.0896 U	0.419 J	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		05/04/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		04/26/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.093 U	0.152 U	0.118 U	
07/19/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.093 U	0.152 U	0.118 U			

Table 5

Groundwater Analytical Data for Deep Zone Wells  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																			
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC								
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2								
MW113 (-37.06 to -47.06)	9th Ave North ROW	12/21/12	SES	Peristaltic	–	–	–	–	–	–	–	–	1.3	i	440	5,500	4.1	150						
		12/19/13	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	13	140	1	U	0.41						
		06/25/15	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	19	670	1	U	17					
		10/27/15	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	4.5	670	1.2	17						
		02/03/16	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1.1	1,500	2.2	13						
		03/22/17	PES	Peristaltic	–	–	–	2.60	U	0.412	U	0.158	U	0.199	U	27.1	7,280	25.4	63.5					
		06/16/17	PES	Bladder	–	–	–	0.468	J	0.412	U	0.158	U	0.522	U	148	4,750	28.2	53.3					
		04/11/18	PES	Peristaltic	–	–	–	0.880	U	0.412	U	0.158	U	191	1,100	3,720	21.3	34.9						
		01/30/19	PES	Peristaltic	–	–	–	1.02	J	2.06	U	0.790	U	0.995	U	2.81	6,330	22.8	34.8					
		02/07/19	PES	Peristaltic	–	–	–	3,100	J+	–	–	–	–	0.199	U	1.77	6,990	25.7	46.0					
07/17/19	PES	Peristaltic	–	–	–	2,560	J+	–	–	–	–	3.14	20.4	4,940	13.1	103								
MW122 (-74.97 to -88.97)	Alley East of 800 Aloha St	12/23/13	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	1	U	1	U	0.2	U					
		10/20/15	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	1	U	0.2	U				
		02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	1	U	0.2	U				
		03/28/17	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		06/14/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.162	J	0.0933	U	0.152	U	0.118	U	
		04/06/18	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
MW123 (-42.49 to -52.49)	Westlake Ave North ROW	12/23/13	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	1	U	1	U	0.2	U					
		04/01/17	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		06/24/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		04/14/18	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.284	J	0.153	U	0.0933	U	0.152	U	0.118	U	
MW124 (-53.76 to -63.76) (duplicate)	Valley Street ROW	12/26/13	SES	Bladder	–	–	–	0.35	U	1	U	1	U	1	U	1	U	0.2	U					
		03/29/17	PES	Bladder	–	–	–	0.0896	U	0.785	U	0.158	U	1.60	0.596	0.661	0.152	U	0.118	U				
		03/29/17	PES	Bladder	–	–	–	0.0896	U	0.675	U	0.158	U	1.22	0.433	0.600	0.152	U	0.118	U				
		06/15/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		04/13/18	PES	Bladder	39.4	U	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
MW128	Westlake Ave North ROW	01/13/14	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	1	U	1	U	960	ve	1	U	290	ve	
		04/22/15	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	150	1	U	59				
		10/20/15	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	7.0	1	U	95				
		02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	–	1	U	1	U	70	1	U	140				
		03/29/17	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	7.16	0.152	U	72.4			
		06/21/17	PES	Bladder	–	–	–	3.84	U	0.541	U	0.158	U	0.199	U	0.153	U	109	0.152	U	195			
		04/09/18	PES	Peristaltic	–	–	–	28.3	U	0.412	U	0.158	U	0.199	U	0.153	U	3.07	0.152	U	31.0			
		07/18/19	PES	Peristaltic	–	–	–	12.2	U	0.412	U	0.158	U	0.199	U	0.153	U	1.88	0.152	U	108			
MW-138	Dexter Ave N ROW	09/21/17	PES	Bladder	63.3	J	–	–	0.179	U	2.60	U	0.316	U	0.398	U	0.306	U	0.187	U	0.304	U	0.236	U
		04/11/18	PES	Bladder	91.1	U	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
		10/29/18	PES	Bladder	38.5	U	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.169	J
		01/03/19	PES	Bladder	31.6	U	–	–	0.0896	U	0.442	J	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
		03/14/19	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	1.49	0.167	J	0.262	J	0.152	U	0.118	U	
		04/22/19	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
		07/19/19	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
MW-140 (duplicate)	Roy Street ROW	09/22/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.450	J	0.477	J	0.152	U	0.118	U	
		09/22/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.199	U	0.456	J	0.523	0.152	U	0.118	U		
		04/12/18	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.402	J+	0.572	J+	2.47	J+	0.152	U	0.246	J+

Table 5

Groundwater Analytical Data for Deep Zone Wells  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)											
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2
MW-153  (duplicate)	Roy Street ROW	05/01/18	PES	Bladder	<b>31.6 J</b>	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	<b>0.756</b>	0.153 U	<b>0.612</b>	0.152 U	<b>9.56</b>
		01/22/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	<b>1.41</b>	0.152 U	<b>15.9</b>
		04/24/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	<b>1.07</b>	0.152 U	<b>2.69 J</b>
		04/24/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	<b>0.975</b>	0.152 U	<b>1.66 J</b>
		07/22/19	PES	Bladder	31.6 U	–	–	<b>0.177 J</b>	<b>0.716</b>	<b>0.227 J</b>	<b>0.819 J</b>	0.199 U	<b>0.190 J</b>	<b>0.384 J</b>	0.152 U	<b>0.235 J</b>
MW-158A	8th Ave N ROW	04/30/18	PES	Bladder	<b>101</b>	–	–	0.0896 U	<b>2.66</b>	0.158 U	0.316 U	<b>17.7</b>	<b>18.7</b>	<b>59.6 J</b>	<b>0.205 J</b>	<b>8.91</b>
		01/24/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	<b>0.325 J</b>	<b>2.54</b>	0.152 U	<b>7.58</b>
		04/25/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	<b>0.240 J</b>	<b>0.974</b>	0.152 U	<b>3.08 J</b>
		07/19/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	<b>0.177 J</b>	<b>0.290 J</b>	0.152 U	<b>1.24</b>
MW-160	8th Ave N ROW	05/21/18	PES	Bladder	<b>51.0 J</b>	–	–	0.0896 U	0.412 U	0.158 U	<b>0.342 J</b>	<b>0.380 J</b>	<b>0.835</b>	<b>2.96</b>	0.152 U	0.118 U
		01/25/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	<b>0.263 J</b>	<b>5.08</b>	0.152 U	0.118 U
		05/01/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	<b>0.513</b>	<b>2.58</b>	0.152 U	0.118 U
		07/23/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	<b>0.217 J</b>	0.152 U	<b>0.326 J</b>
MW-161	8th Ave N ROW	05/21/18	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	<b>0.329 J</b>	<b>2.01</b>	<b>1.79</b>	<b>1.89</b>	0.152 U	0.118 U
		01/25/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	<b>0.472 J</b>	<b>1.66</b>	<b>1.26</b>	0.152 U	0.118 U
		05/01/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	<b>0.482 J</b>	<b>1.66</b>	<b>1.15</b>	0.152 U	0.118 U
		07/18/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	<b>0.264 J</b>	<b>1.53</b>	<b>1.58</b>	0.152 U	0.118 U
Number of Samples					64	–	–	128	128	128	128	161	161	161	161	161
Number of Detections					17	–	–	12	20	1	4	60	72	106	36	96
Frequency of Detection					27%	–	–	9%	16%	1%	3%	37%	45%	66%	22%	60%
Maximum					3,100	J+	–	28.3	3.90	–	0.819 J	2,800	1,100	7,280	28.2	290 ve
Minimum					31.6	U	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U
Notes:					<p>1. Petroleum hydrocarbons analyzed by EPA Method 418.1 NWTPH-HCID, or NWTPH-Gx, NWTPH-Dx or 8015-M</p> <p>2. GRO = gasoline-range organics</p> <p>3. DRO = diesel-range organics</p> <p>4. ORO = oil-range organics</p> <p>5. PCE = perchloroethylene (tetrachloroethene)</p> <p>6. TCE = trichloroethene</p> <p>7. cDCE = cis-1,2-dichloroethene</p> <p>8. tDCE = trans-1,2-dichloroethene</p> <p>9. VC = vinyl chloride</p> <p>10. ROW = right-of-way</p> <p>11. (dup) = duplicate</p> <p>12. SES = SoundEarth Strategies, Inc.</p> <p>13. Farallon = Farallon Consulting, LLC</p> <p>14. – = not analyzed or not measured</p> <p>15. U = not detected at a concentration exceeding laboratory reporting limit</p> <p>16. ND = not detected at a concentration exceeding laboratory reporting limit; detection limit not provided</p> <p>17. Detected results shown in bold, detections above the screening levels highlighted in gray</p> <p>18. ve = estimated value due to the reported range exceeding the calibration range of the analysis</p> <p>19. i = the presence of the analyte indicated may be due to carryover from previous sample injections</p> <p>20. z = No/low level gasoline/petroleum detection; result is likely elevated due to high detections of CVOCs</p>											



Table 6

**Groundwater Geochemical Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampled By	Alkalinity (mg CaCO <sub>3</sub> /L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)			
									Total	Ferrous	Ferric		Methane	Ethane	Ethene	
<b>Shallow Water-Bearing Zone</b>																
F13	Property	03/27/17	PES	266	8.85	0.0227 U	68.3	10.0	24.2	1.0	23.2	0.651	510	0.296 U	0.422 U	
		06/22/17	PES	484	12.6	0.0227 U	6.13	10.9	29.3	1.5	27.8	0.806	2,610	0.296 U	0.422 U	
J5	Property	03/21/17	PES	53.4	28.0	0.0584 J	16.3	4.10	1.09	0.6	0.5	0.474	2,370	0.296 U	29.4	
		06/26/17	PES	209	45.1	0.0227 U	8.85	11.4	2.91	-	-	2.24	9,600	19.6	34.4	
J15 (dup)	Property	03/27/17	PES	476	24.2	0.0227 U	55.8	20.0	5.52	2.0	3.5	3.34	3,100	0.296 U	0.422 U	
		06/26/17	PES	486	22.0	0.0227 U	60.3	19.1	2.66	1.5	1.2	3.09	2,220	0.296 U	0.422 U	
		06/26/17	PES	543	22.1	0.0227 U	60.4	19.0	3.02	1.5	1.5	3.03	2.34	0.296 U	0.422 U	
K8	Property	03/21/17	PES	70.3	10.1	0.103	27.2	5.93	0.0622 J	0	0.1	0.242	41.4	0.296 U	0.422 U	
		06/26/17	PES	97.5	14.7	0.307	25.8	6.45	0.0411 J	0	0.0	0.296	72.7	0.296 U	0.422 U	
M15 (dup)	Property	03/27/17	PES	830	11.6	0.0227 U	40.4	11.4	3.76	2.75	1.0	6.07	11,500	0.296 U	0.422 U	
		03/27/17	PES	817	11.6	0.0227 U	40.4	11.7	3.77	-	-	6.17	10,400	0.296 U	0.422 U	
		06/26/17	PES	904	11.0	0.0227 U	47.2	11.0	3.32	-	-	6.32	7,250	0.296 U	0.422 U	
MW121	8th Ave N ROW	12/26/13	SES	790	18.6	0.0250 U	200	-	2.39	1.90	0.5	6.47	346	5 U	5 U	
		03/28/17	PES	848	12.2	0.0227 U	643	17.9	33.3	2.0	31.3	13.2	479	2.04	0.422 U	
		06/20/17	PES	930	13.3	0.0227 U	61.2 J	16.5	27.1	3.0	24.1	11.0	2,140	8.88	0.422 U	
MW125	Valley Street ROW	12/26/13	SES	650	112	0.076	12.8	-	2.39	1.5	0.9	1.85	455	6.34	5 U	
MW-9	8th Ave N ROW	12/16/13	SES	56	3.76	0.059	6.08	-	3.32	3.4	0.0	0.778	6.24	5 U	5 U	
N7	Property	03/30/17	PES	118	4.73	6.87	25.2	1.35	0.120	0.0	0.1	1.50	11,000	0.296 U	0.422 U	
		06/27/17	PES	235	8.76	6.290	48.4	2.71	1.45	0.3	1.2	3.31	8,430	0.296 U	0.422 U	
R-MW5	Dexter Ave N ROW	03/23/17	PES	183	32.2	0.0549 J	33.0	3.94	2.94	1.0	1.9	4.24	118	0.296 U	0.422 U	
		06/16/17	PES	152	58.3	0.253	21.8	2.59	2.74	-	-	1.29	275	0.296 U	0.422 U	
R-MW6	8th Ave N ROW	03/21/17	PES	586	5.72	0.191	119	6.28	5.02	-	-	6.24	9,410	0.296 U	0.422 U	
		06/20/17	PES	718	11.1	0.023 U	85.7	13.6	27.0	1.5	25.5	8.28	6,980	10.7	11.2	
<b>Intermediate "A" Water-Bearing Zone</b>																
BB-8 (dup)	Roy Street ROW	12/29/13	SES	270	12.6	3.68	84.6	-	0.085	0.0	0.1	0.252	5 U	5 U	5 U	
		03/22/17	PES	254	7.87	3.17	41.5	2.25	0.125	0.0	0.1	0.0705	0.412 J	0.296 U	0.422 U	
		06/14/17	PES	290	10.2	2.74	56.9	3.34	0.0348 J	0.0	0.0	0.0475	0.287 U	0.296 U	0.422 U	
		04/11/18	PES	258	7.43	3.41	3.98	3.24	0.145	0.0	0.1	0.0940	0.287 U	0.296 U	0.422 U	
		04/11/18	PES	262	7.42	3.17	3.98	3.14	0.0962	0.0	0.1	0.0544	0.287 U	0.296 U	0.422 U	
		01/23/19	PES	280	12.4	0.891	93.3	3.43	0.0954 J	-	-	0.0820 J	111	0.735 J	0.422 U	
		04/23/19	PES	227	28.1	2.77	44.4	2.71	0.315	0.0	0.3	0.0637	0.287 U	0.296 U	0.422 U	
		07/17/19	PES	240	10.4	1.94	59.0	4.36	0.691	0.0	0.7	0.0979	62.2	0.296 U	0.422 U	
GEI-1	Block 37	03/24/17	PES	564	8.9	0.0227 U	0.0774 U	11.7	23.8	1.0	22.8	3.10	20,500	0.296 U	0.422 U	
		06/13/17	PES	304	15	0.0792 J	25.3	6.73	9.05	-	-	1.50	10,600	0.296 U	0.422 U	
		07/16/19	PES	529	13.4	0.0227 U	0.0774 U	8.29	17.1	-	-	2.48	16,100	0.296 U	0.422 U	
MW107	8th Ave N ROW	12/16/13	SES	340	70.8	0.025 U	165	-	1.35	0.4	0.9	0.358	8.69	5 U	5 U	
		03/27/17	PES	559	122	0.0262	0.0774 U	147	17.6	2.0	15.6	1.12	8.38	0.296 U	159	
		06/19/17	PES	651	90	0.0227 U	0.0774 U	91.0	10.5	1.5	9.0	0.955	7350	0.296 U	205	
		04/09/18	PES	692	675	0.0227 U	3.54 J	26.3	4.84	4.0	0.8	1.21	6,700	44.2	38.1	
		01/30/19	PES	564	49.2	0.0227 U	37.1	14.5	2.35	-	-	0.947	14,500	89.2	70.3	
		05/01/19	PES	538	41.6	0.0227 U	51.8	14.2	2.67	2.0	0.7	1.08	18,000	122	93.2	
		07/22/19	PES	527	40.3	0.0227 U	30.3	18.9	3.08	3.0	0.1	1.04	16,400	133	81.5	

Table 6

**Groundwater Geochemical Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampled By	Alkalinity (mg CaCO <sub>3</sub> /L)	Chloride (mg/L)	Nitrate (mg/L)		Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)						
										Total	Ferrous	Ferric		Methane	Ethane	Ethane				
MW108	Alley Between 8th & 9th Ave N	12/17/13	SES	600	25.8	0.075		12.5	-	17.5	21.7	0.0	1.96	2,110	22.8	5	U			
		03/28/17	PES	577	22.1	0.0227	U	106	7.32	19.7	2.5	17.2	2.27	1,740	36.4	2.20				
		06/27/17	PES	679	20.6	0.0227	U	101	8.62	21.8	2.0	19.8	2.20	3,940	47.8	0.42	U			
MW109	Alley Between 8th & 9th Ave N	12/17/13	SES	670	16.1	0.0250		34.6	-	12.6	16.2	0.0	4.04	1,400	5.89	5	U			
		03/29/17	PES	498	6.90	0.0255	J	31.4	10.8	12.0	1.5	10.5	3.01	2,000	7.21	0.422	U			
		06/17/17	PES	693	13.3	0.0227	U	42.5	12.2	14.6	1.5	13.1	3.90	2,540	8.65	0.422	U			
MW110	Alley Between 8th & 9th Ave N	12/19/13	SES	390	20.4	0.603		158	-	0.079	0.0	0.0	3.28	7.66	5	U	5	U		
		03/23/17	PES	425	36.2	0.652		108	7.98	0.948	J	0.1	0.8	3.90	125	1.21	J	0.422	U	
		06/27/17	PES	516	27.0	0.0227		160	4.91	0.115		0.0	0.1	2.13	95.5	17.4		0.422	U	
MW114	SDOT Property S of Roy	12/18/13	SES	190	31.2	0.032		98.8	-	0.075	0.0	0.1	0.629	5	U	5	U	5	U	
MW115	9th Ave N ROW	12/19/13	SES	580	22.1	0.0250		3.35	-	6.24	6.7	0.0	1.44	2,550	5	U	5	U		
		03/22/17	PES	417	28.5	0.0227	U	35.9	7.69	5.69	1.5	4.2	1.32	215	0.296	U	0.422	U		
		06/22/17	PES	401	33.0	0.0227	U	46.1	7.39	6.19	1.5	4.7	1.19	3,570	4.98		0.422	U		
MW116	9th Ave N ROW	12/19/13	SES	310	26.2	0.0250		14.5	-	2.48	2.7	0.0	1.14	1,750	5	U	5	U		
		03/21/17	PES	432	22.0	0.0227	U	25.7	7.34	6.01	3.9	2.1	0.869	8,590	0.296	U	0.422	U		
		06/16/17	PES	377	25.1	0.0227	U	9.31	6.80	6.69	1.8	4.9	0.793	8,610	0.296	U	0.422	U		
MW117	Dexter Ave N ROW	12/18/13	SES	200	9.11	0.0250		56.3	-	1.49	2.0	0.0	0.344	5	U	5	U	5	U	
MW119	9th Ave N ROW	12/19/13	SES	310	12.1	0.0250		3.34	-	19.4	18.6	0.8	2.55	3,450	5	U	5	U		
		03/29/17	PES	255	20.5	0.164		14.9	6.84	17.1	2.0	15.1	2.98	819	0.296	U	0.422	U		
		06/28/17	PES	360	13.7	0.0227	UJ	56.1	9.09	5.66	1.5	4.2	1.25	73.5	0.296	U	0.422	U		
MW120  (dup)	8th Ave N ROW	12/19/13	SES	290	36.5	0.0690		99.4	-	0.288	0.2	0.1	0.319	10.1	5	U	5	U		
		04/09/18	PES	151	30.2	0.237		66.9	1.08	1.40	0.0	1.4	0.194	0.287	U	0.296	U	0.422	U	
		01/24/19	PES	206	22.4	1.98		73.6	1.78	3.68	0.0	3.7	0.387	235	2.71		0.422	U		
		05/03/19	PES	217	20.5	2.01		66.2	1.66	2.31	J	-	-	0.384	157	J	0.296	U	0.422	U
		05/03/19	PES	217	20.3	1.96		65.9	1.58	1.12	J	-	-	346	115	J	0.296	U	0.422	U
07/16/19	PES	211	19.9	1.76		67.1	1.7	2.85		0.0	0.0	0.391	72.4	0.296	U	0.422	U			
MW131	Property	03/27/17	PES	911	141	0.0227	U	0.0774	U	8.93	7.98	1.9	6.1	1.06	16,200	0.296	U	280		
		06/20/17	PES	1,050	122	0.0227	U	0.724	J	10.8	7.42	-	-	1.01	10,700	0.296	U	332		
		04/16/18	PES	712	114	0.0227	U	0.0774	U	44.2	7.97	1.8	6.2	1.19	29,900	329		467		
MW-142  (dup)	8th Ave N ROW	04/27/18	PES	794	15.6	0.0227	U	0.426	J	33.7	3.16	1.5	1.7	2.58	7,980	44.6		0.422	U	
		01/28/19	PES	784	10.1	0.0227	U	0.0774	U	27.7	2.87	2.0	0.9	2.37	3,530	17.7		0.422	U	
		01/28/19	PES	779	10.2	0.0227	U	0.0774	U	28.3	2.66	2.0	0.7	2.46	3,490	18.5		0.422	U	
		04/24/19	PES	798	9.76	0.0227	U	27.3	31.7	3.50	1.2	2.3	1.99	3,560	19.2		0.422	U		
		07/25/19	PES	792	10.6	0.0227	U	48.8	27.9	5.89	2.1	3.8	3.63	3,070	27.8		0.422	U		
MW-144	8th Ave N ROW	04/27/18	PES	740	182	0.0227	U	9.39	159	1.07	0.5	0.6	1.98	17,700	55.4		5,480			
		01/28/19	PES	735	149	0.0227	U	0.0774	U	15.1	1.98	-	-	1.66	13,700	495		1,140		
		04/23/19	PES	733	144	0.0227	U	0.0774	U	11.4	1.22	1.2	0.0	1.48	13,000	771		699		
MW-146  (dup)	8th Ave N ROW	04/30/18	PES	363	30.4	0.0227	U	22.3	4.47	2.65	1.3	1.4	1.26	9,240	11.9		489			
		01/22/19	PES	249	15.8	0.0227	U	32.1	3.43	1.76	2.0	0.0	0.56	2,460	1.84		107			
		04/24/19	PES	310	14.8	0.0227	U	23.3	4.95	2.87	2.5	0.4	0.770	5,090	4.00		347			
		07/19/19	PES	310	17.2	0.0227	U	23.9	3.78	2.87	1.9	1.0	0.800	6,490	0.296	U	463			
		07/19/19	PES	307	17.2	0.0227	U	24.2	3.67	2.95	1.9	1.1	0.817	5,480	0.296	U	387			
MW-149	Property	04/10/18	PES	504	44.6	0.0227	U	16.9	9.94	2.18	1.8	0.4	2.70	14,400	414		363			
		12/13/18	PES	407	7.71	0.0227	U	225	75.1	26.1	0.5	25.6	12.8	11,400	2,430		35.9			

Table 6

**Groundwater Geochemical Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampled By	Alkalinity (mg CaCO <sub>3</sub> /L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)					
									Total	Ferrous	Ferric		Methane	Ethane	Ethene			
MW-151	Property	04/10/18	PES	409	65.5	0.0870 J	2.08 J	39.2	1.38	0.8	0.6	0.536	36,500	83.3	1,440			
		12/14/18	PES	618	32.2	0.0227 U	702	335	138	-	-	11.8	18,900	68.4	68.4			
MW-156  (dup)	8th Ave N ROW	04/26/18	PES	436	46.3	0.0227 U	25.0	10.7	10.2	0.0	10.2	1.13	2,250	28.4	23.8			
		01/24/19	PES	554	25.1	0.0227 U	67.6	34.3	3.42	0.0	3.4	6.59	2,470	44.8	0.422 U			
		04/24/19	PES	618	18.6	0.0227 U	145	57.3	3.81	0.4	3.4	9.01	1,720	31.2	0.422 U			
		04/24/19	PES	612	19.3	0.259	145	56.0	4.76	0.4	4.4	9.75	1,590	28.4	0.422 U			
		07/22/19	PES	606	45.5	0.0227 U	181	42.0	19.9	0.3	19.7	8.68	2,340	50.0	0.422 U			
<b>Intermediate "B" Water-Bearing Zone</b>																		
MW111	Alley Between 8th & 9th Ave N	12/17/13	SES	170	47.3	0.025 U	4.73	-	0.168	0.2	0.0	0.135	14.7	5	U	5	U	
		03/23/17	PES	179	22.9	0.0680 J	8.25	0.918 J	0.391	0.1	0.3	0.151	136	5.75		4.17		
		06/14/17	PES	202	23.2	0.0227 U	8.97	1.20	0.298	-	-	0.142	231	7.73		6.71		
MW112	Dexter Ave N ROW	12/26/13	SES	160	12.3	0.0640	44.9	-	0.560	0.2	0.3	0.106	5	U	5	U	5	U
		03/22/17	PES	188	10.6	0.0227 U	45.2	1.35	0.238	-	-	0.0411	4.89	0.296 U	0.422 U			
		06/16/17	PES	240	1.15	0.162	1.26 J	5.48	2.56	-	-	0.0871	1.78	0.296 U	0.422 U			
		04/12/18	PES	16.7 J	2.09	0.398 J	1.31 J	2.80	19.5	0.0	19.5	0.421	326	0.296 U	0.422 U			
		12/22/18	PES	41.6	9.72	0.0683 J	0.342 J	5.51	22.6	-	-	0.573	373	0.296 U	0.422 U			
		04/22/19	PES	82.9	7.09	0.0227 U	7.65	6.04	4.90	-	-	0.177	281	1.12 J	1.13 J			
		07/16/19	PES	112	8.61	0.0227 U	17.1	6.12	1.28	0.0	1.3	0.154	149	3.81	0.422 U			
MW130  (dup)	Property	03/29/17	PES	276	100	0.0227 U	7.07	10.7	1.19	1.0	0.2	0.555	619	1.62	30.0			
		06/30/17	PES	339	115	0.0227 U	6.23	1.84 J J	0.907	0.0	0.9	0.532	1,040	2.47	64.5			
		06/30/17	PES	335	111	0.0227 U	6.16	9.68 J J	0.876	0.0	0.9	0.527	1,120	2.33	69.1			
		05/21/18	PES	2.71 U	135	265	1.68 J	7.54	5.44	0.0	5.4	0.727	1,760	33.6	284			
		12/17/18	PES	384	143	0.0227 U	17.3	12.6	2.26	0.0	2.3	0.490	324	8.36	166			
MW-132	Property	04/26/18	PES	542	30.1	0.0227 U	10.6	18.6	9.59	-	-	2.04	4,640	75.9	0.422 U			
		12/13/18	PES	260	40.4	0.0227 U	7.21	3.4	0.544	-	-	0.278	89.7	0.925 J	41.0			
MW-134	Property	04/16/18	PES	298	38	0.0227 UJ	1.30 J	3.27	292	0.0	292	5.00	5,200	61.3	952			
MW-135	Property	04/25/18	PES	273	118	0.0227 U	21.9	6.21	1.74	1.5	0.2	0.656	333	18.1	131			
		12/13/18	PES	379	128	0.0227 U	61.8	18.1	4.95	0.8	4.2	1.450	2,060	56.1	327			
MW-136	Property	04/16/18	PES	241	22.1	0.165	0.638 J	15.1	21.4	0.6	20.8	0.618	5,510	8.52	5.77			
MW-139	Property	04/25/18	PES	212	21.9	0.0227 R	2.21 J	28.5	1.13	0.8	0.4	0.251	4.28	8.04	0.42 U			
MW-143	8th Ave N ROW	04/30/18	PES	448	66.5	0.0227 U	4.69 J	2.55	2.08	0.5	1.6	0.390	6,720	92.5	360			
		01/29/19	PES	400	58.5	0.0227 U	3.12 J	7.02	1.6	0.8	0.9	0.378	8,520	134	0.422 U			
		04/24/19	PES	393	56.2	0.0227 U	8.53	7.19	0.687	0.3	0.4	0.317	6,940	125	0.422 U			
		07/19/19	PES	403	58.2	0.140	6.91	12.7	2.07	1.0	1.1	0.398	4,790	96.5	14.4			
MW-145	8th Ave N ROW	04/27/18	PES	272	74.4	0.238	71.0	8.09 J	42.9	0.0	42.9	0.912	2,050	0.296 U	18.5			
		01/29/19	PES	255	43.5	0.219	55.4	4.80	4.85	0.0	4.9	0.193	276	0.296 U	0.422 U			
		04/26/19	PES	287	44.7	0.0227 U	73.9	5.29	5.73	0.0	5.7	0.318	455	1.73	5.24			
MW-147  (dup)	Roy Street ROW	05/01/18	PES	302	40.8	0.0227 U	183	21.3	17.1	-	-	0.564	5,060	10.7	144			
		01/22/19	PES	302	56.2	0.0227 U	43.2	5.2	6.01	1.0	5.0	0.646	4,210	2.10	100			
		04/23/19	PES	346	26.9	0.0227 U	28.1	13.7	4.39	1.5	2.9	0.787	8,110	0.296 U	158			
		07/18/19	PES	307	19.3	0.0227 U	30.0	9.56	3.80 J	2.0	1.8	0.750	5,450	0.296 U	191			
		07/18/19	PES	310	18.8	0.0890 J	29.4	11.7	2.40 J	2.0	0.4	0.724	5,830	0.296 U	202			

Table 6

**Groundwater Geochemical Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampled By	Alkalinity (mg CaCO <sub>3</sub> /L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)			
									Total	Ferrous	Ferric		Methane	Ethane	Ethene	
MW-148 (dup)	Roy Street ROW	05/01/18	PES	170	22.2	0.0227 U	95.5	2.46	12.0	0.3	11.8	0.439	1,210	0.296 U	0.422 U	
		05/01/18	PES	162	22.5	0.0227 U	96.1	2.53	11.2	0.3	11.0	0.379	1,140	0.296 U	0.422 U	
		01/23/19	PES	151	17.7	0.0227 U	154	4.04	10.1	-	-	0.594	1390	0.296 U	2.84	
		04/26/19	PES	161	17.1	0.0227 U	175	5.19	2.91	0.4	2.5	0.420	1,600	0.296 U	3.65	
		07/22/19	PES	160	17	0.0227 U	173	3.51	5.44	0.5	4.9	0.534	1,940	0.296 U	4.66	
MW-152	Property	04/10/18	PES	312	128	0.0227 U	15.0	13.2	0.210	0.0	0.2	0.386	1,590	41.1	1,830	
		12/14/18	PES	299	181	0.0227 U	31.6	16.9	3.82	1.0	2.8	1.46	3,710	32.2	2,050	
MW-157	8th Ave N ROW	04/26/18	PES	201	27.8	0.0227 U	4.51 J	2.86	1.02	-	-	0.209	111	0.779 J	36.6	
		01/24/19	PES	421	43.2	0.0227 U	24.1	12.9	5.25	3.0	2.3	1.17	4,970	37.4	124	
		04/24/19	PES	513	34.1	0.0227 U	95.0	39.5	9.40	3.0	6.4	2.13	5,510	36.0	119	
		07/22/19	PES	464	43.7	0.0227 U	46.7	14.9	11.4	3.0	8.4	1.73	5,090	45.8	56.2	
W-MW-01	8th Ave N ROW	03/30/17	PES	211	23.8	0.023 U	29.0	1.84	18.2	0.3	18.0	0.542	367	0.757 J	1.27 J	
		06/19/17	PES	250	27.6	0.0727 J	28.3	3.00	9.48	-	-	0.321	461	0.296 U	0.42 U	
		04/13/18	PES	214	26.8	0.0227 U	61.4	2.95	20.4	0.8	19.6	0.717	702	5.81	7.55	
		01/25/19	PES	235	31.7	0.0227 UJ	56.9	7.93	11.1	1.5	9.6	0.552	291	2.43	3.41	
		07/23/19	PES	242	33.2	0.0227 U	78.9	2.73	0.614	0.0	0.6	0.323	327	3.96	7.04	
W-MW-02	8th Ave N ROW	12/16/13	SES	240	105	0.025 U	101	-	0.672	0.9	0.0	0.676	8.91	5 U	5 U	
		03/27/17	PES	455	142	0.0227 UJ	0.0774 U	204	47.5	1.8	45.8	4.12	6,740	0.296 U	8.32	
		06/19/17	PES	520	103	0.0227 UJ	0.0774 U	116	33.7	1.5	32.2	2.98	16,900	0.296 U	3.71	
		06/12/18	PES	854	77.9	0.0227 R	0.0774 U	97.7	21.1	3.4	17.7	3.45	23,800	14.3	57.9	
		01/25/19	PES	876	91	0.0665 J	0.0774 U	33.7	20.8	2.0	18.8	3.71	11,300	0.67 J	0.422 U	
		04/23/19	PES	799	86.7	0.0227 U	0.0774 U	26.1	13.4	0.5	12.9	3.43	10,600	45.2	37.4	
		07/23/19	PES	965	98.4	0.0227 U	3.24 J	43.4	13.6	3.0	10.6	3.47	25,700	0.296 U	15.0	
<b>Deep Water-Bearing Zone</b>																
FMW-129	SDOT Property S of Roy	04/10/17	PES	308	44.2	0.0227 U	124	2.74	0.365	0.0	0.4	0.402	279	26.8	0.422 U	
		06/23/17	PES	296	36.1	0.0914 J	95.5	1.70	9.92	1.0	8.9	0.412	276	14.7	0.422 U	
		07/16/19	PES	221	23.7	0.771	86.8	2.23	4.6	-	-	0.415	40.5	6.45	0.422 U	
FMW-131	Block 37	03/24/17	PES	166	6.12	0.0227 U	0.738	2.18	0.598	0.5	0.1	1.03	159	1.19 J	0.422 U	
		06/23/17	PES	273	28.1	0.109	29.2	1.56	2.39	0.3	2.1	1.26	87.4	0.296 U	0.422 U	
GEI-2	Block 37	03/24/17	PES	420	12.5	0.0227 U	0 U	8.14	24.0	0.3	23.8	0.898	15.1	0.296 U	0.422 U	
		06/23/17	PES	458	23.0	0.0227 U	0 U	6.84	14.9	1.0	13.9	0.483	10,500	23.8	42.5	
		07/16/19	PES	340	27.1	0.0227 U	36.1	6.6	7.51	1.5	6.0	0.432	4,550	15.0	11.5	
MW102	Valley Street ROW	04/25/18	PES	160	4.99	0.0315 J	0.880 J	1.94	9.60	1.0	8.6	0.414	0.561	0.296 U	0.422 U	
		01/24/19	PES	162	5.19	0.0553 J	1.74 J	4.36	6.46	0.0	6.5	0.363	172	0.296 U	0.422 U	
		05/01/19	PES	173	5.39	0.0227 U	0.318 J	3.75	11.9	0.5	11.4	0.405	255	1.07 J	0.422 U	
		07/18/19	PES	167	5.58	0.0227 U	1.83 J	4.76	7.16	0.8	6.4	0.353	290	0.296 U	0.422 U	
MW103	Alley Between 8th & 9th Ave N	12/18/13	SES	380	48.8	0.025 U	0.99	-	1.14	1.4	0.0	1.10	67.5	9.14	13.5	
		03/23/17	PES	337	48.4	0.0227 U	36.3	1.97	1.68	0.3	1.4	1.09	433	82.5	34.1	
		06/14/17	PES	339	34.7	0.0227 U	28.1	2.58	4.56	-	-	0.936	863	84.6	43.1	

Table 6

**Groundwater Geochemical Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampled By	Alkalinity (mg CaCO <sub>3</sub> /L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
									Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW104	8th Ave N ROW	12/17/13	SES	310	28.9	0.025 U	23.1	-	5.45	5.0	0.4	0.757	25.4	5 U	5 U
		03/30/17	PES	253	36.0	0.0227 U	18.8	3.44	0.487	-	-	0.178	170	3.35	2.71
		06/30/17	PES	218	11.7	0.0227 U	6.05	1.68	1.77	0.0	1.8	0.360	40.6	0.296 U	0.422 U
		04/09/18	PES	224	17.2	0.0227 U	0.594 J	7.13 J	0.793	0.3	0.5	0.263	398	0.296 U	5.71
		02/01/19	PES	79.8	6.74	0.0227 U	5.50	6.72	37.0	0.0	37.0	0.656	605	2.41	29.4
		04/23/19	PES	196	18.6	0.0227 U	5.96	5.97	5.03	0.0	5.0	0.285	437	2.60	17.7
		07/22/19	PES	201	17.0	0.0227 U	7.40	7.11	3.00	0.0	3.0	0.164	375	2.94	28.6
MW105	Roy Street ROW	12/29/13	SES	440	48.3	0.716	29.3	-	2.91	2.0	0.9	1.24	44.5	5 U	6.14
		04/11/18	PES	257	35.7	0.0227 U	9.48	3.27	5.70	0.8	5.0	0.799	2,700	4.41	0.422 U
		01/23/19	PES	210	28.1	0.0227 U	11.0	1.96	13.8	-	-	0.809	286	0.296 U	4.19
		04/23/19	PES	275	37.9	0.0227 U	5.81	4.06	5.27	0.5	4.8	0.893	1,660	0.296 U	0.422 U
		07/17/19	PES	314	34.9	0.0227 U	7.66	3.38	2.29	-	-	0.945	1,830	0.296 U	0.422 U
MW106	SDOT Property S of Roy	04/14/17	PES	309	28.7	0.0227 U	17.9	5.93	14.1	0.0	14.1	1.08	79.5	0.296 U	2.62
		06/30/17	PES	305	27.3	0.0227 U	18.0	10.0	4.96	0.0	5.0	0.779	38.7	0.296 U	0.442 U
		05/04/18	PES	283	25.0	0.0227 U	10.4	1.74	0.164	0.0	0.2	0.496	77.8	0.296 U	10.8
		04/26/19	PES	267	23.6	0.0227 U	15.9	3.32	3.42	0.0	3.4	0.695	42.1	0.296 U	0.422 U
		07/19/19	PES	266	24.4	0.0227 U	15.0	2.23	13.7	0.0	13.7	0.972	39.5	0.296 U	0.422 U
		MW113	9th Ave N ROW	12/19/13	SES	96	23.5	0.280	17.4	-	0.119	0.0	0.1	0.0248	5 U
		03/22/17	PES	594	65.5	0.0295 J	55.4	27.0	7.46	4.0	3.5	0.757	3.53	0.296 U	0.422 U
		06/16/17	PES	587	57.5	0.0227 U	41.9	18.0	14.4	1.5	12.9	0.990	6,520	147	0.422 U
		02/07/19	PES	551	43.9	0.0389 J	33.3	18.8	6.1	2.5	3.6	0.659	4,050	39.9	6.30
		07/17/19	PES	139	152	0.992	15.1	2.38	0.786	0.3	0.5	0.0799	1,130	9.87	27.2
MW124	Valley Street ROW	12/26/13	SES	160	5.96	1.22	0.730	-	1.46	0.4	1.1	0.125	5 U	5 U	5 U
		04/13/18	PES	162	4.47	0.0227 U	0.46 J	2.45	20.1	0.5	19.6	0.757	24.6	0.296 U	0.422 U
MW128	Westlake Ave N ROW	03/29/17	PES	387	15.9	0.0227 U	0.0774 U	4.84	10.5	1.8	8.7	0.227	12,600	13.2	64.8
		06/21/17	PES	1,050	24.6	0.0227 U	0.0774 U	7.81	23.0	-	-	0.704	19,600	33.4	45.1
		07/18/19	PES	601	22.3	0.0227 U	4.34 J	6.94	12.4	-	-	0.409	15,500	16.4	68.3
MW-133	Property	04/25/18	PES	173	9.91	0.287	1.43 J	2.84	4.80	1.3	3.6	0.297	549	5.77	17.4
MW-137	Property	04/12/18	PES	213	109.0	0.0227 R	10.8	2.90	218	0.8	217.3	4.41	1,600	0.296 U	4.47
MW-138	Dexter Ave N ROW	04/11/18	PES	143	13.8	0.0227 U	45.9	4.89 J	21.5	0.0	21.5	0.725	83.1	0.296 U	0.422 U
		01/03/19	PES	125	14.1	0.0227 U	47.5	3.90	2.19	0.0	2.2	0.375	61.3	0.621 J	0.573 J
		04/22/19	PES	139	14.2	0.0227 U	42.7	5.70	13.2	-	-	0.509	164	0.296 U	1.43
		07/19/19	PES	133	14.9	0.0227 U	53.4	1.40	11.7	0.5	11.2	0.560	74.2	0.296 U	0.422 U
MW-140	Roy Street ROW	04/12/18	PES	249	15.5	0.0227 R	5.73	2.40	15.0	0.3	14.7	0.795	261	0.296 U	0.422 U
MW-141	Property	04/12/18	PES	179	9.64	0.0227 R	7.49	4.30	4.61	-	-	0.556	2,690	3.29	0.869 J
MW-153  (dup)	Roy Street ROW	05/01/18	PES	148	24	0.0227 U	23.7	1.26	1.01	-	-	0.187	74.3	0.296 U	0.422 U
		01/22/19	PES	156	9.91	0.0227 U	13.2	1.92	3.01	0.0	3.0	0.299	387	0.296 U	4.89
		04/24/19	PES	174	9.4	0.0227 U	9.23	3.86	3.60 J	0.0	3.6	0.385	412	0.296 U	1.79
		04/24/19	PES	170	9.16	0.0227 U	8.91	4.62	1.59 J	0.0	1.6	0.305	434	0.296 U	0.422 U
		07/22/19	PES	160	8.31	0.0227 U	6.78	1.84	1.67	0.0	1.7	0.325	27	0.296 U	0.422 U

**Table 6**

**Groundwater Geochemical Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampled By	Alkalinity (mg CaCO <sub>3</sub> /L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
									Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-158A	8th Ave N ROW	04/30/18	PES	345	113	0.446	278	54.8	55.4	0.5	54.9	1.04	352	15.7	11.0
		01/24/19	PES	329	29.7	0.0227 U	26.8	7.95	181	0.0	181	3.07	196	2.52	8.12
		04/25/19	PES	345	26.7	0.0227 U	21.1	8.11	12.4 J	-	-	0.393 J	177	0.296 U	4.74
		07/19/19	PES	330	26.9	0.0227 U	19.8	4.64	69.2	0.0	69.2	1.37	222	0.296 U	5.86
MW-160	8th Ave N ROW	05/21/18	PES	186	10.7	0.0703 J	2.68 J	1.47	12.3	0.0	12.3	0.400	129	14.5	4.75
		01/25/19	PES	134	10.7	0.0227 U	1.87 J	3.98	59.1	0.5	58.6	1.22	766	11.7	0.422 U
		05/01/19	PES	197	10.5	0.0227 U	1.26 J	3.79	4.60	0.0	4.6	0.387	1,070	4.41	0.422 U
		07/23/19	PES	182	8.28	0.0227 U	2.64 J	1.95	2.68	0.5	2.2	0.408	535	0.296 U	0.422 U
MW-161	8th Ave N ROW	05/21/18	PES	294	25.0	0.0227 U	13.5	1.49	9.37	0.0	9.4	0.758	53.4	2.64	0.979 J
		01/25/19	PES	282	25.5	0.0227 UJ	13.4	4.52	7.34	0.0	7.3	0.784	69.0	0.296 U	0.422 U
		05/01/19	PES	293	25.5	0.0227 U	12.2	1.58	5.73	0.0	5.7	0.795	98.1	0.296 U	0.422 U
		07/18/19	PES	284	26.5	0.0227 U	14.1	1.61	1.30	0.0	1.3	0.694	139	0.296 U	0.422 U

**NOTES:**

1. mg/L = milligrams per liter	7. < = not detected at concentration
2. ug/L = micrograms per liter	8. Ferric iron = total iron minus ferrous iron; if total iron < ferrous iron, ferric iron is reported as 0
3. mgCaCO <sub>3</sub> /L= milligrams of calcium carbonate per liter	9. PES = PES Environmental, Inc.
4. µS/cm = microSiemens per centimeter	10. SES = SoundEarth Strategies, Inc.
5. mV = millivolts	11. Q = Sample was prepared and/or analyzed past recommended holding time.
6. ORP = oxidation-reduction potential	12. V = The sample concentration is too high to evaluate accurate spike recoveries.

Table 7

**Soil Vapor Analytical Results  
Former American Linen Supply  
700 Dexter Avenue North Seattle, Washington**

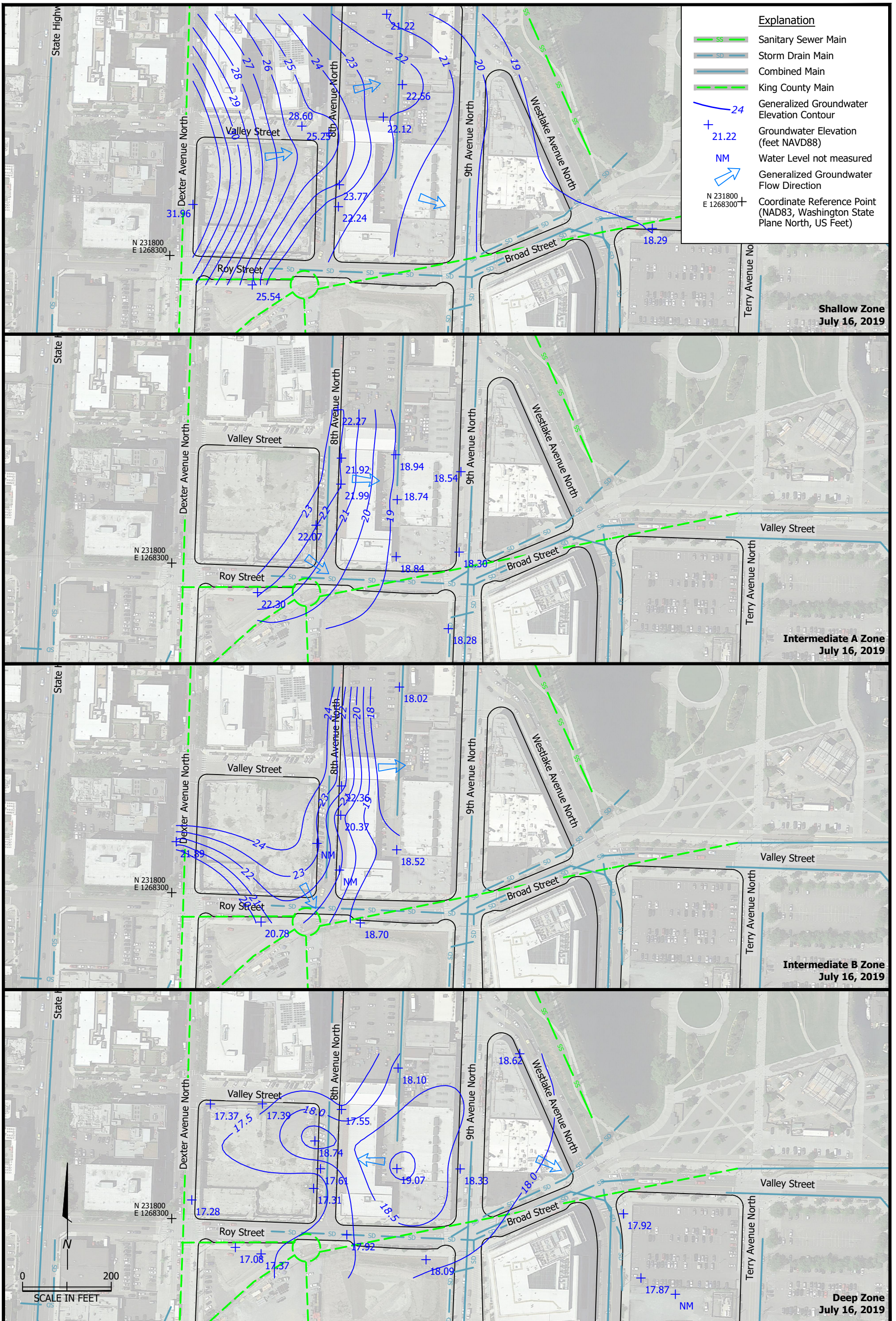
Sample Location	Sample Name	Sample Date	Analytical Results (micrograms per cubic meter)									
			PCE		TCE		cDCE		tDCE		VC	
<b>MTCA Method B Soil Gas Screening Level</b>			<b>321</b>		<b>12</b>		-		-		<b>9.3</b>	
SV01	SV01-20130311	03/11/13	<b>1.5</b>		0.16	U	<b>0.31</b>		0.58	U	<b>0.71</b>	
	SV01-092518	09/25/18	2.72	UJ	2.14	U	1.59	U	1.59	U	1.02	U
	SV01-092518-D	09/25/18	<b>137</b>	<b>J</b>	2.14	U	1.59	U	1.59	U	1.02	U
	SV01-020619	02/06/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
	SV01-042919	04/29/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
	SV01-042919-D	04/29/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
	SV-01-071919	07/19/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
	SV-01-071919-D	07/19/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
SV02	SV02-20130311	03/11/13	<b>2.3</b>		0.17	U	0.12	U	0.61	U	0.04	U
	SV02-092518	09/25/18	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
	SV02-020619	02/06/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
	SV02-042919	04/29/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
	SV-02-071919	07/19/19	<b>31.3</b>		2.14	U	1.59	U	1.59	U	1.02	U
SV03	SV03-20130311	03/11/13	<b>4.6</b>		<b>0.39</b>		0.12	U	0.58	U	0.037	U
	SV03-092518	09/25/18	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
	SV03-020619	02/06/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
	SV03-042919	04/29/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U

Notes:

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. Laboratory analyses conducted by Air Toxics Ltd. of Folsom, CA (2013 samples) and Pace Analytical of Mount Juliet, TN (2018 samples)</li> <li>2. VOCs analyzed by U.S. Environmental Protection Agency Method Modified TO-15 Low Level Analysis.</li> <li>3. PCE = perchloroethylene (tetrachloroethene)</li> <li>4. TCE = trichloroethene</li> <li>5. cDCE = cis-1,2-dichloroethene</li> <li>6. tDCE = trans-1,2-dichloroethene</li> </ol> | <ol style="list-style-type: none"> <li>7. VC = vinyl chloride</li> <li>8. Detected results shown in bold, detections exceeding MTCA Method B sub-slab screening levels highlighted in gray</li> <li>9. U = not detected at a concentration exceeding laboratory reporting limit</li> <li>12. MTCA = Washington State Model Toxics Control Act</li> <li>13. CLARC = cleanup levels and risk calculations</li> <li>14. - = screening level not established</li> </ol> |
|---|---|







**Groundwater Elevation Contours**

**July 16, 2019**

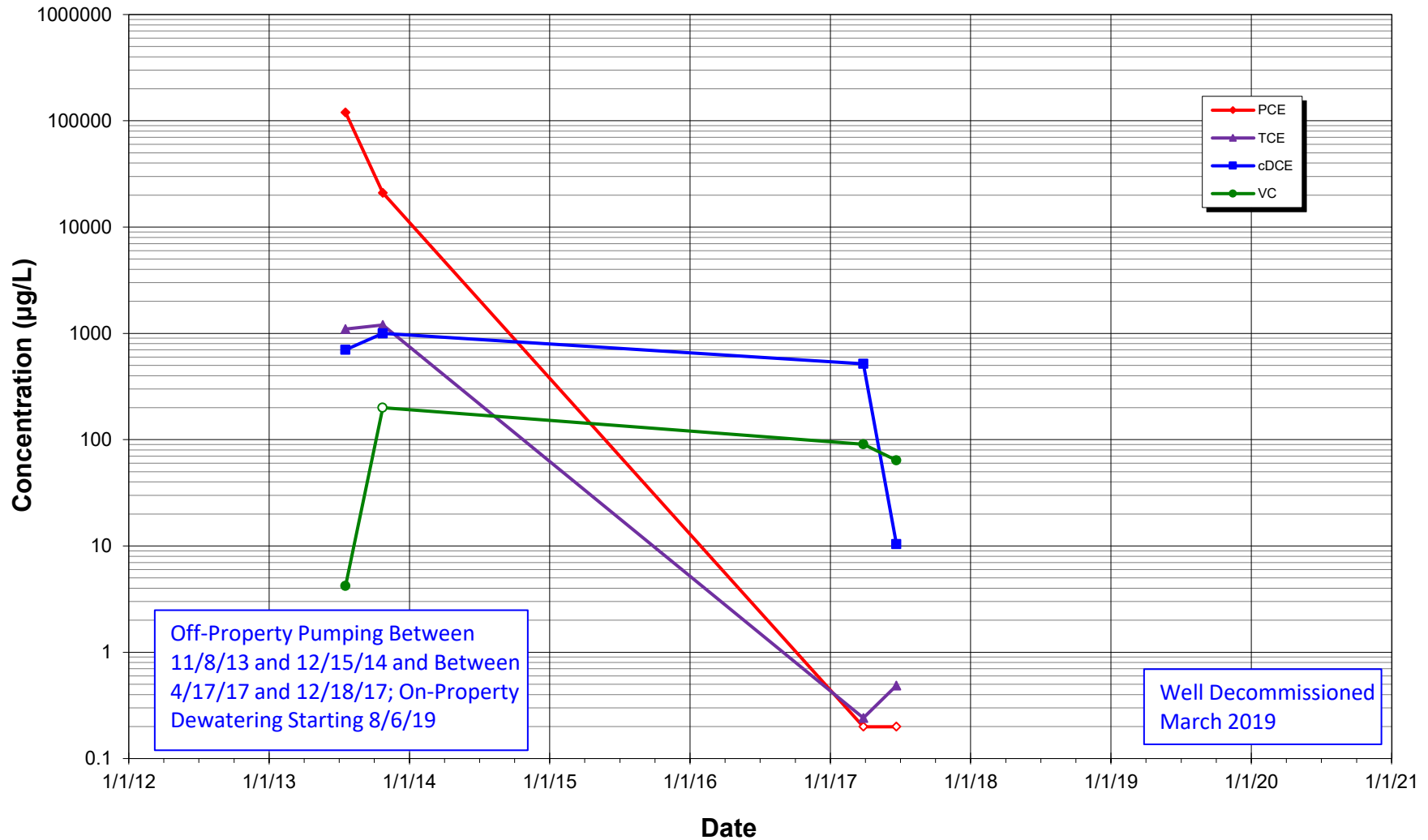
Former American Linen Supply  
700 Dexter Avenue North  
Seattle, Washington

FIGURE

**2**

**Attachment A**  
**Shallow Well Time-Trend Plots**

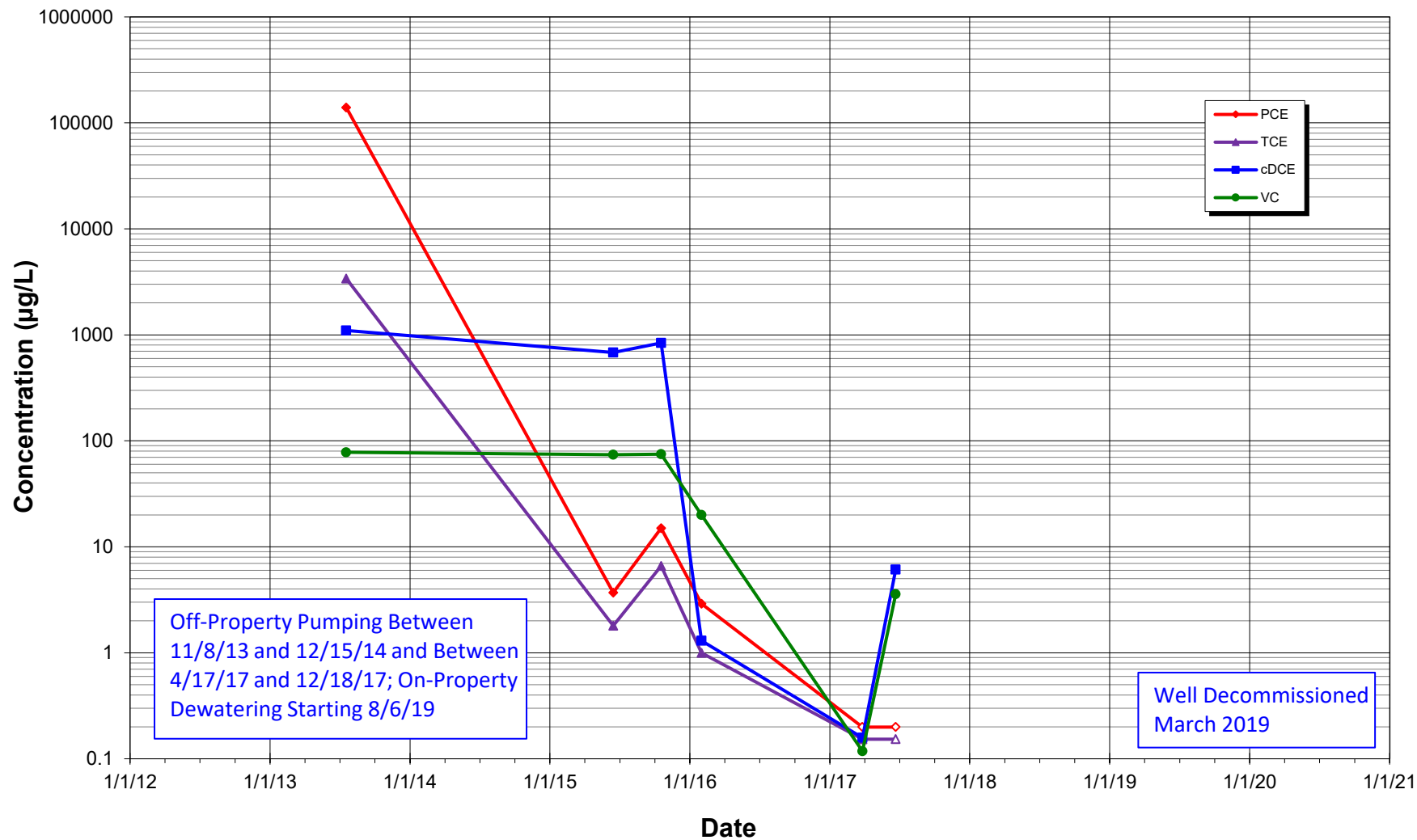
**Concentration vs Time  
F5 (29.1 to -0.9 feet NAVD), Property  
American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

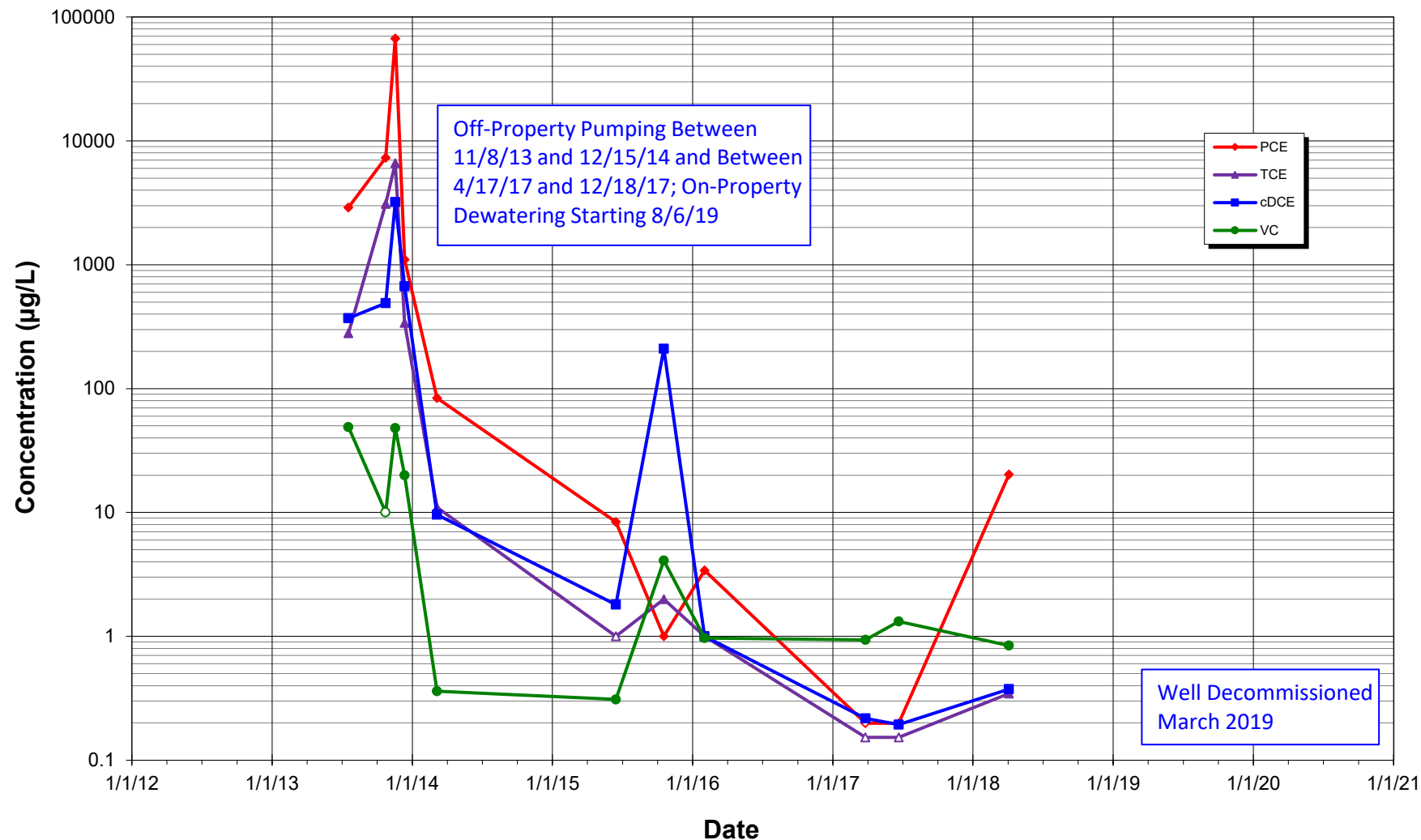
### Concentration vs Time F9 (28.5 to -1.5 feet NAVD), Property American Linen Supply Co–Dexter Ave Site



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

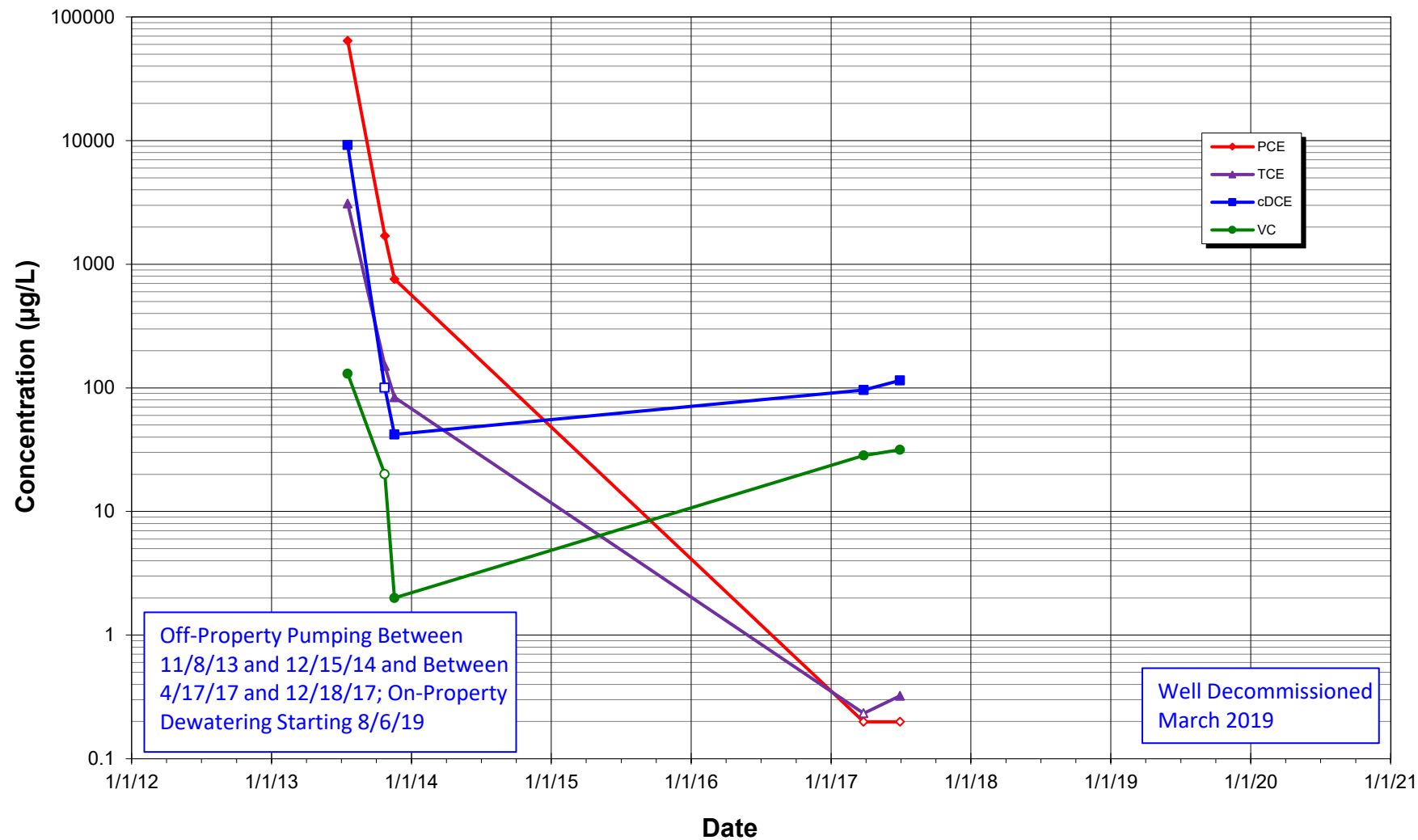
### Concentration vs Time F13 (28.4 to -1.6 feet NAVD), Property American Linen Supply Co–Dexter Ave Site



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

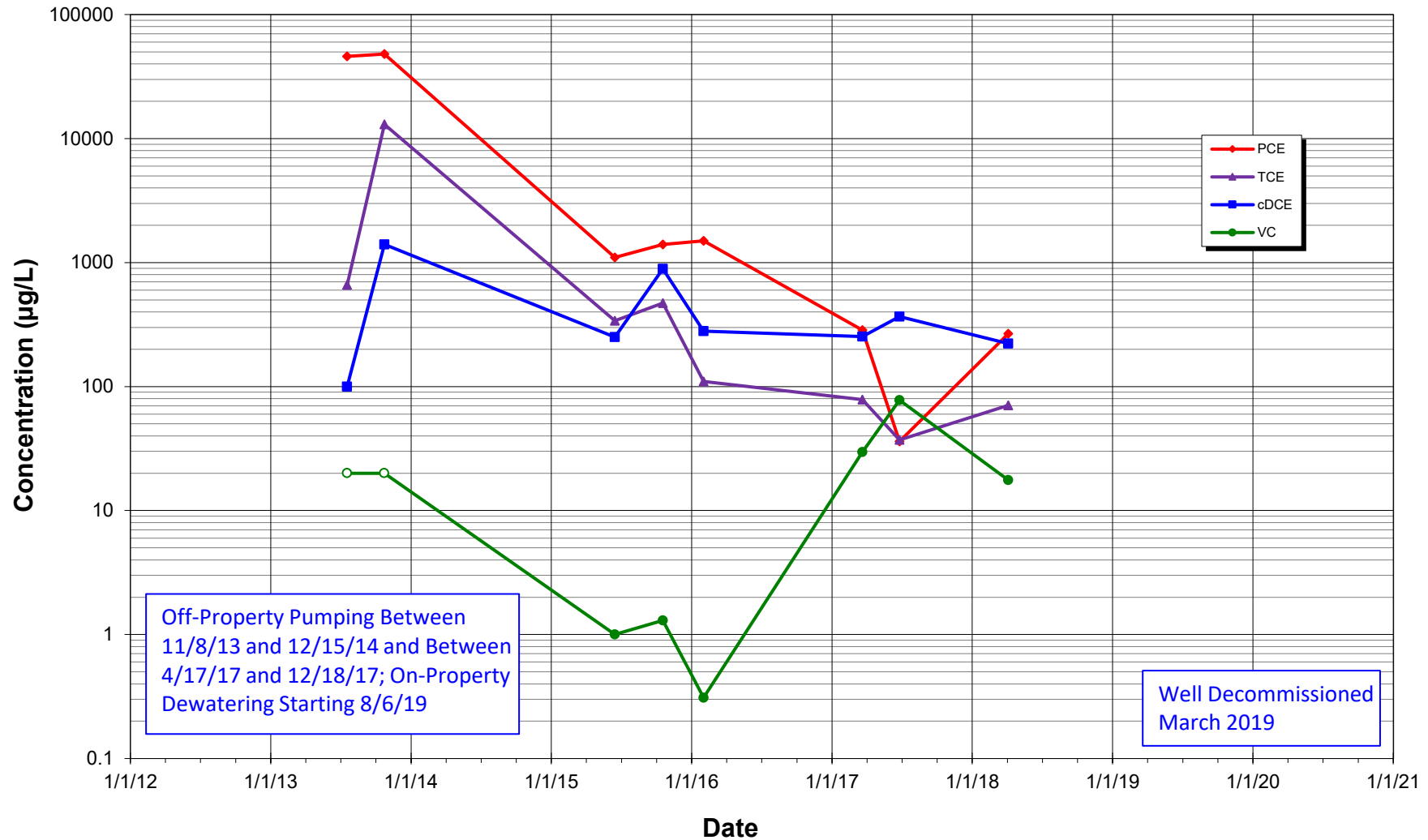
### Concentration vs Time G12 (29.4 to -0.6 feet NAVD), Property American Linen Supply Co-Dexter Ave Site



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

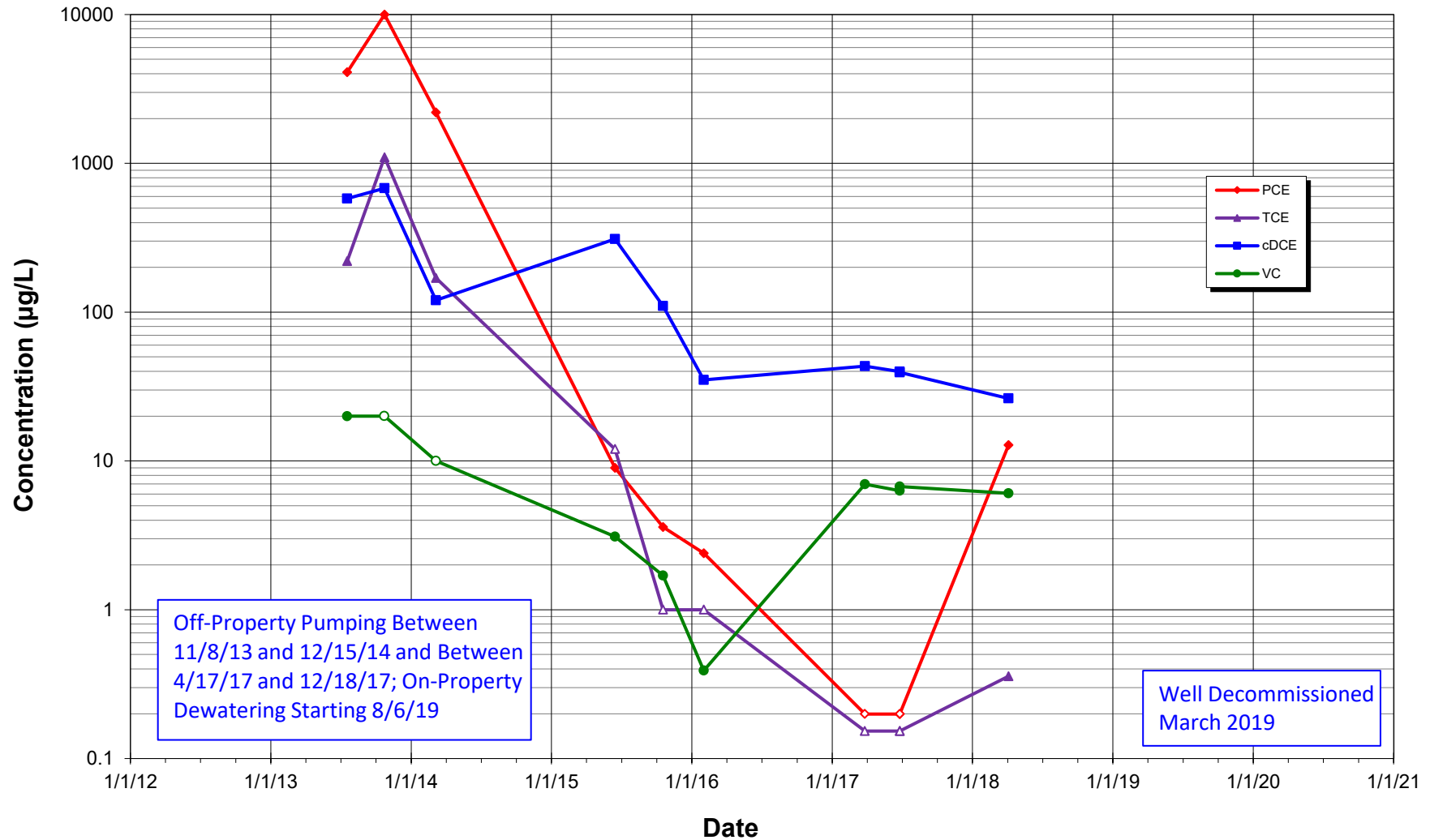
**Concentration vs Time  
J5 (29.8 to -0.2 feet NAVD), Property  
American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
J15 (28.7 to -1.3 feet NAVD), Property  
American Linen Supply Co–Dexter Ave Site**

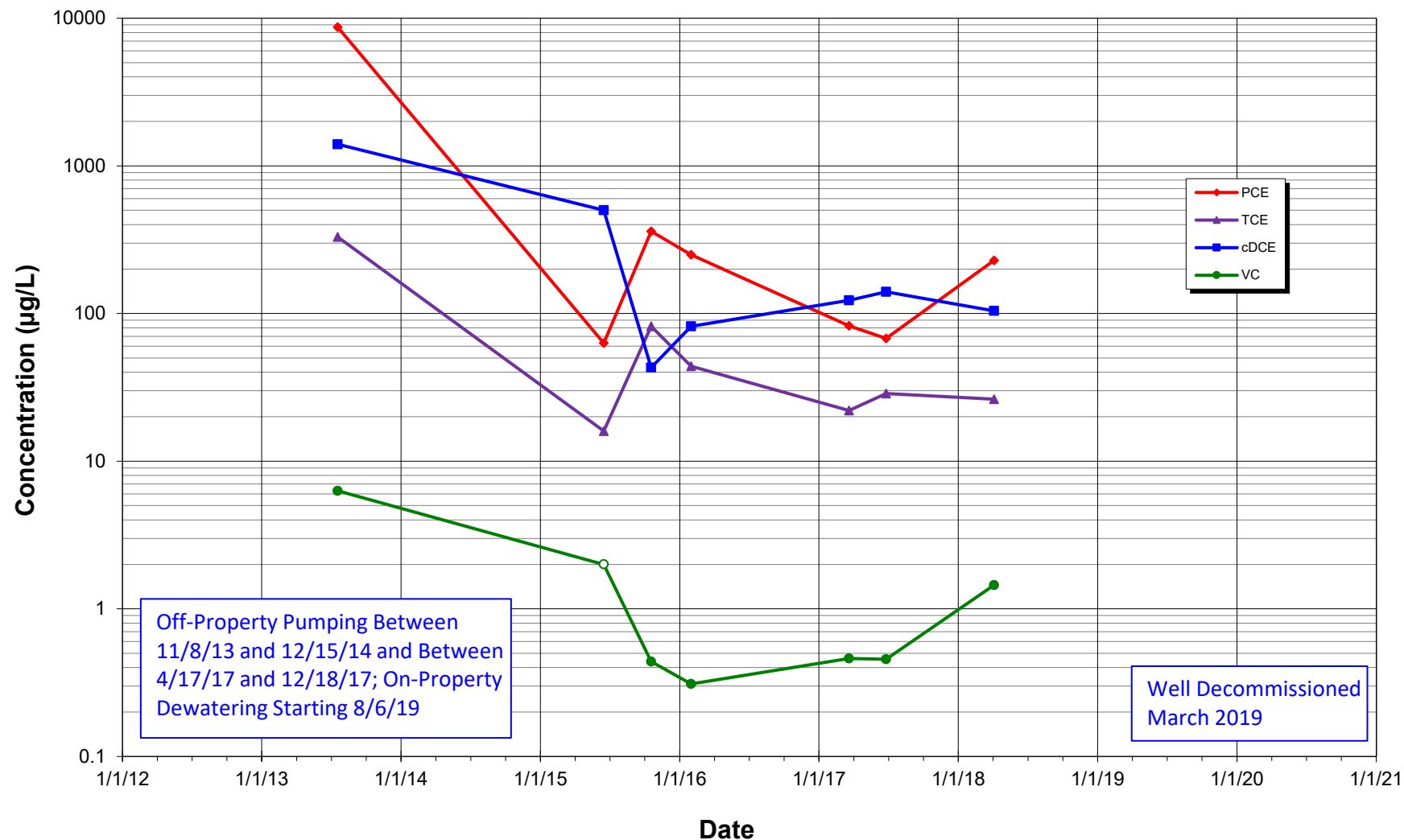


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



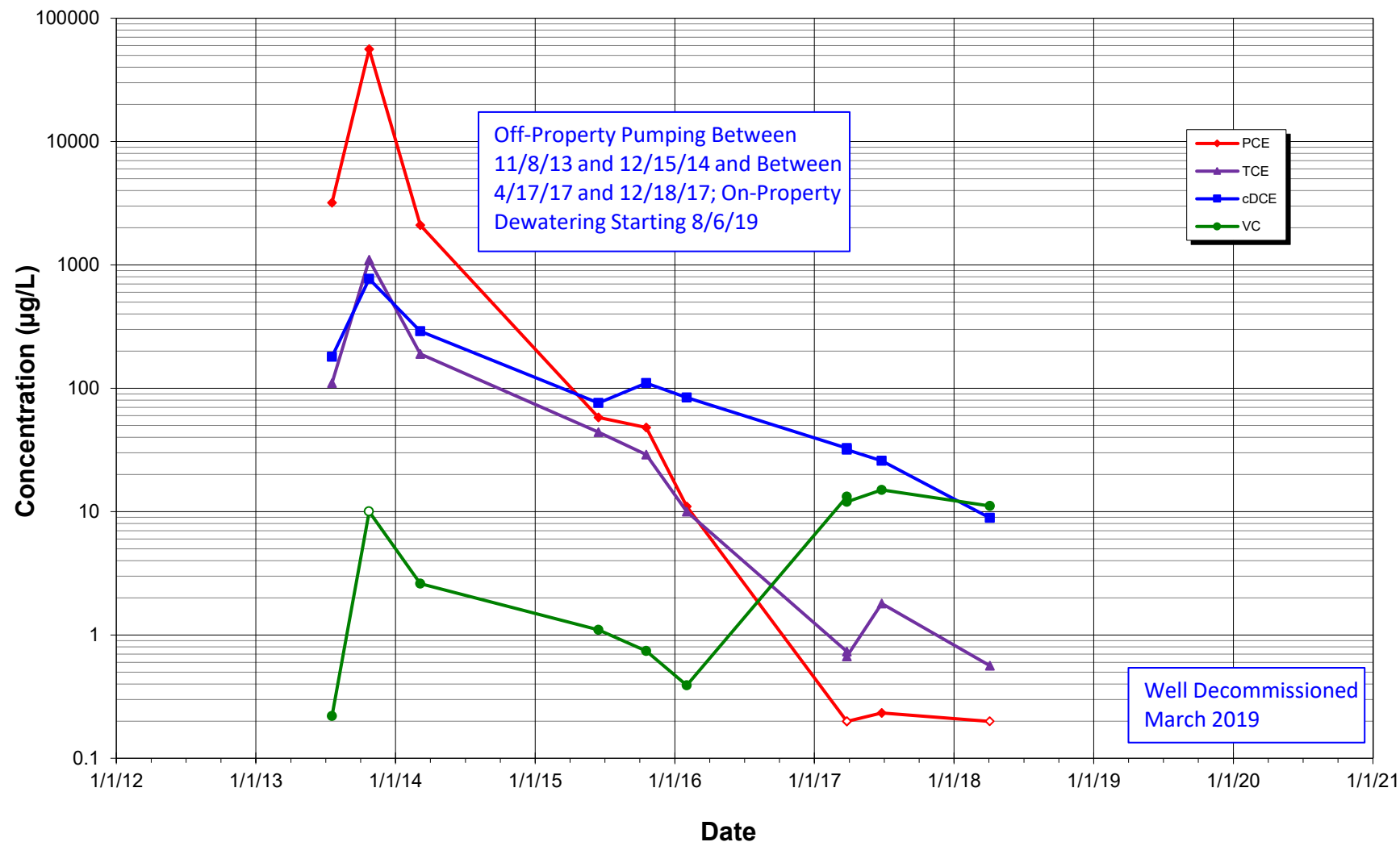
### Concentration vs Time K8 (29.9 to -0.1 feet NAVD), Property American Linen Supply Co–Dexter Ave Site



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

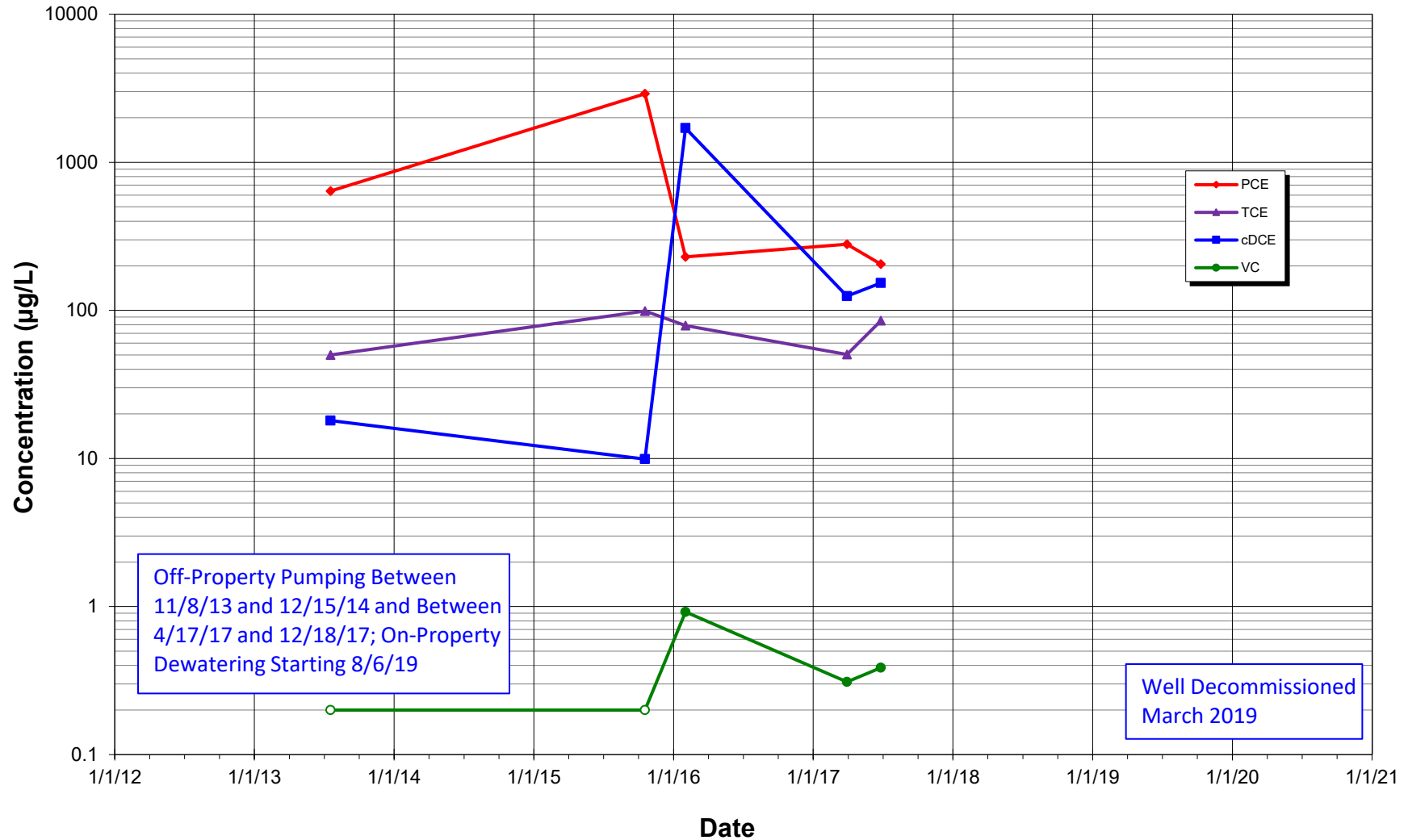
### Concentration vs Time M15 (29.5 to -0.5 feet NAVD), Property American Linen Supply Co–Dexter Ave Site



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

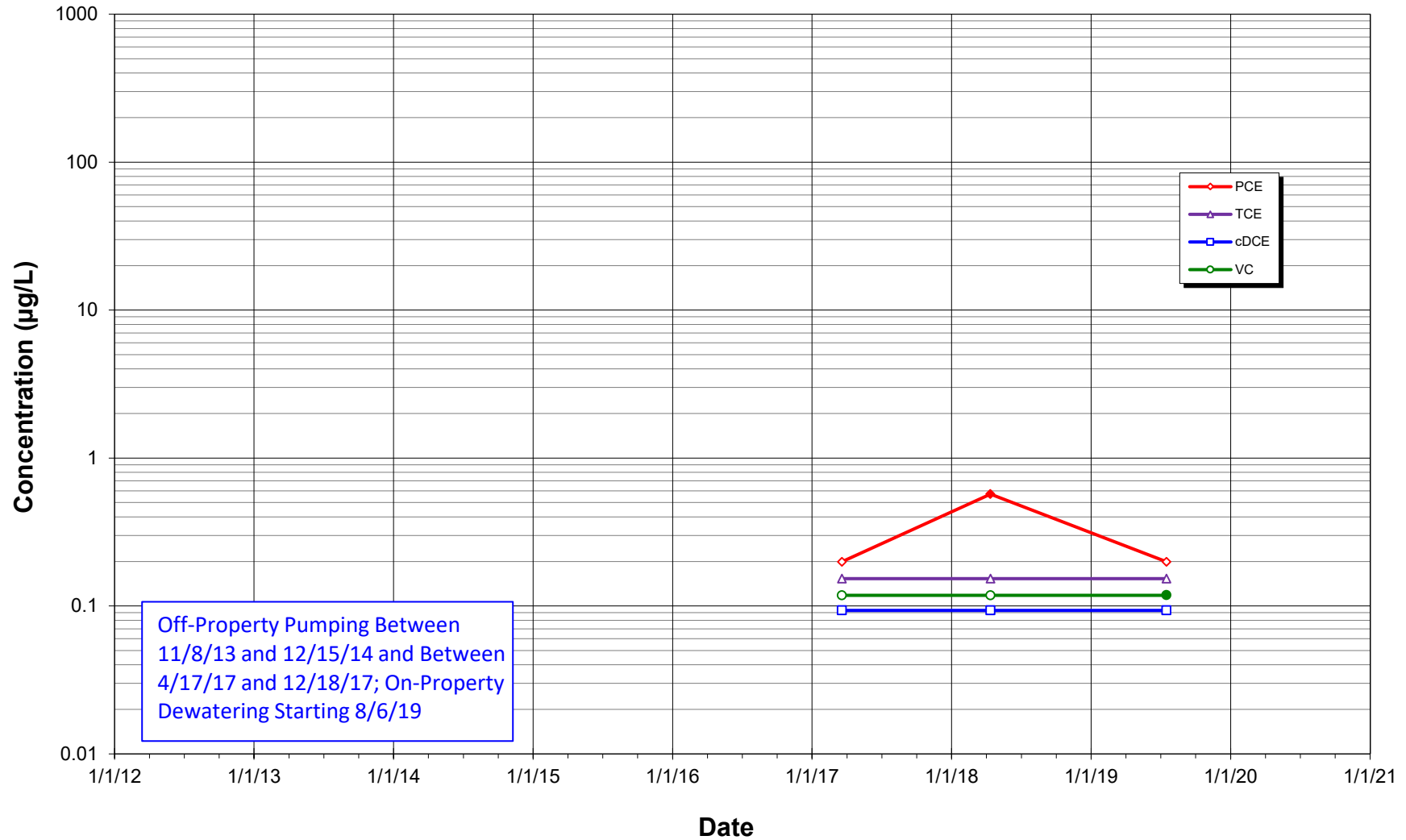
### Concentration vs Time N7 (41.8 to 12.8 feet NAVD), Property American Linen Supply Co–Dexter Ave Site



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

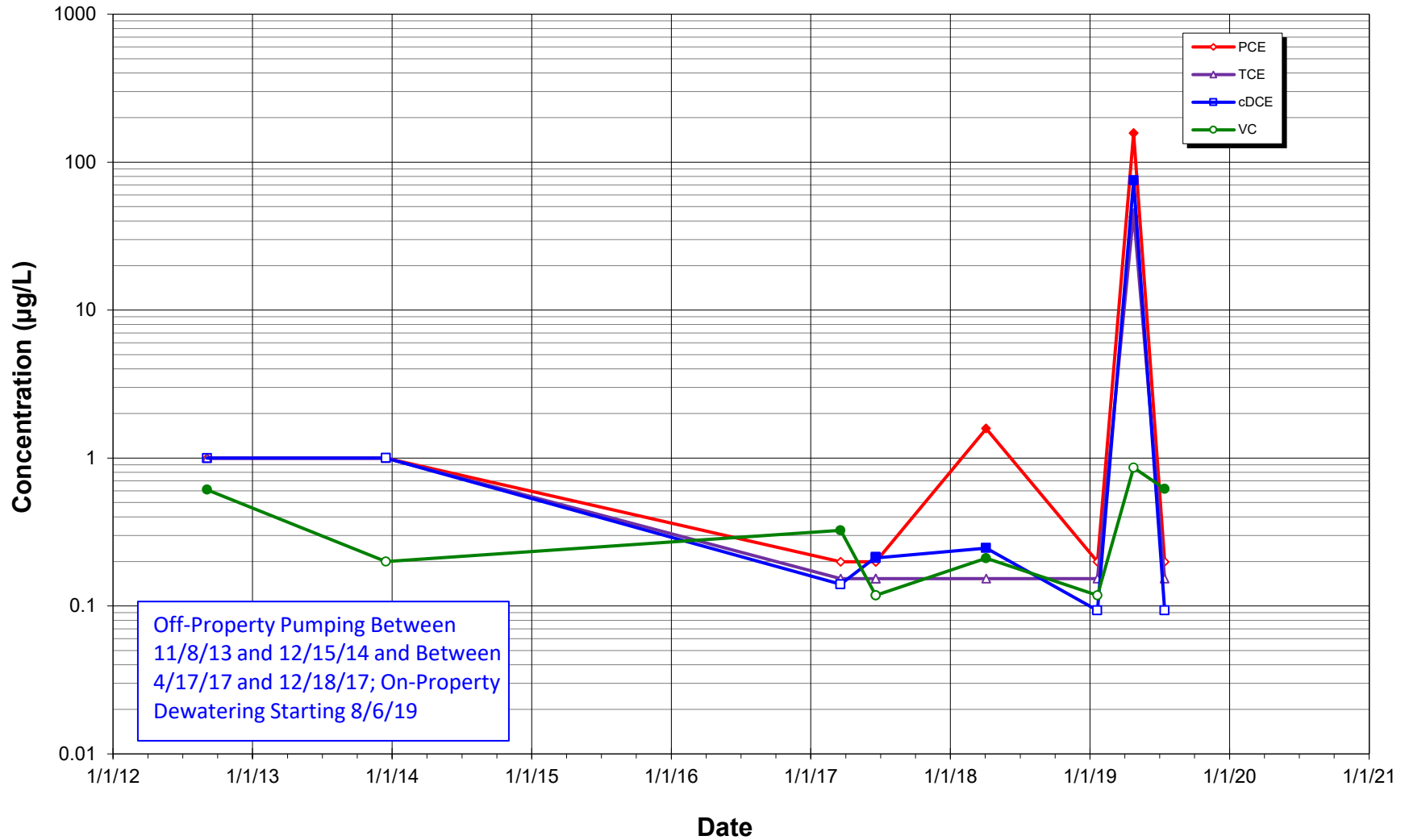
**Concentration vs Time  
MW-8 (-88.9 to -98.9 feet NAVD), Property  
American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

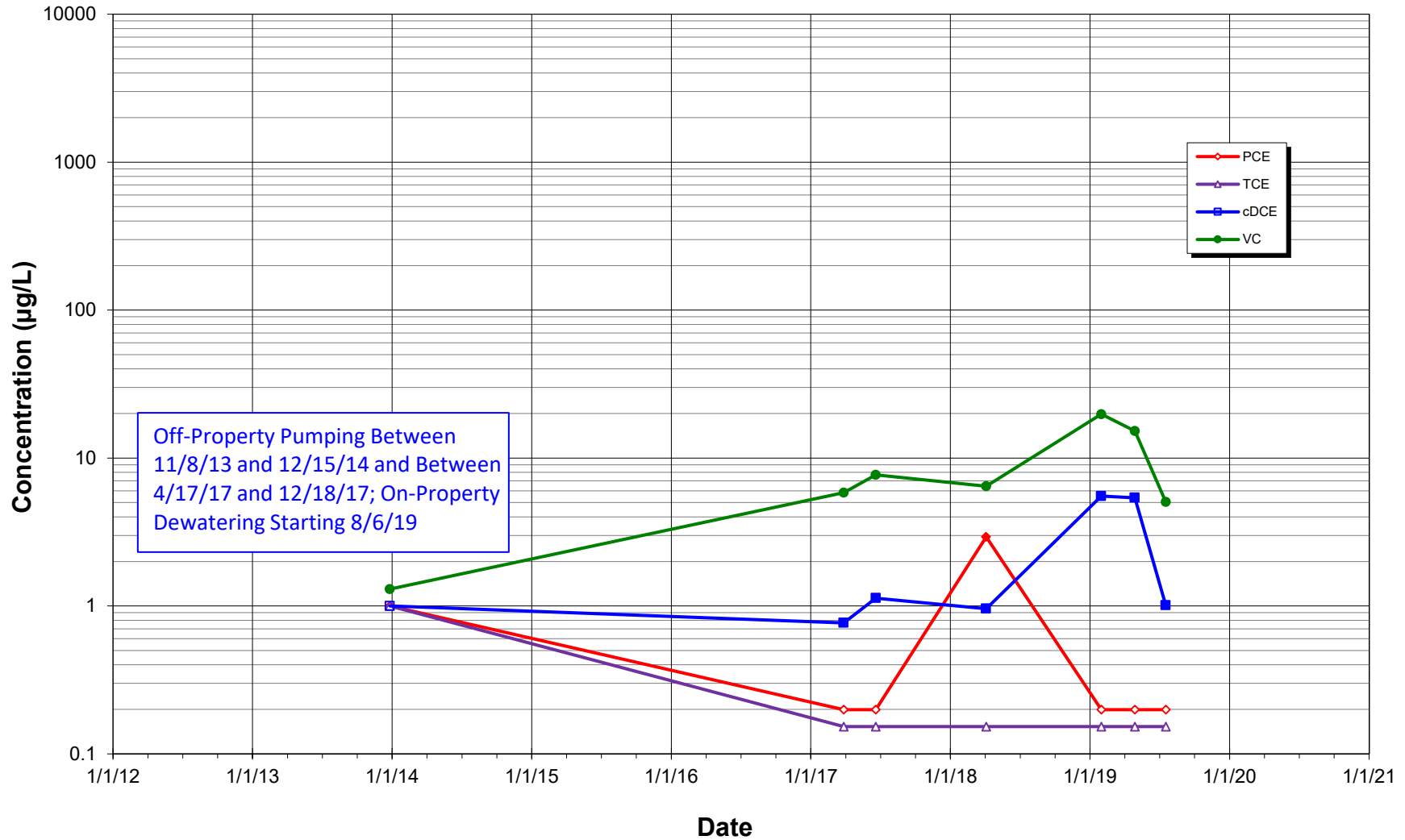
**Concentration vs Time**  
**MW-9 (33.8 to 18.8 feet NAVD), 8th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

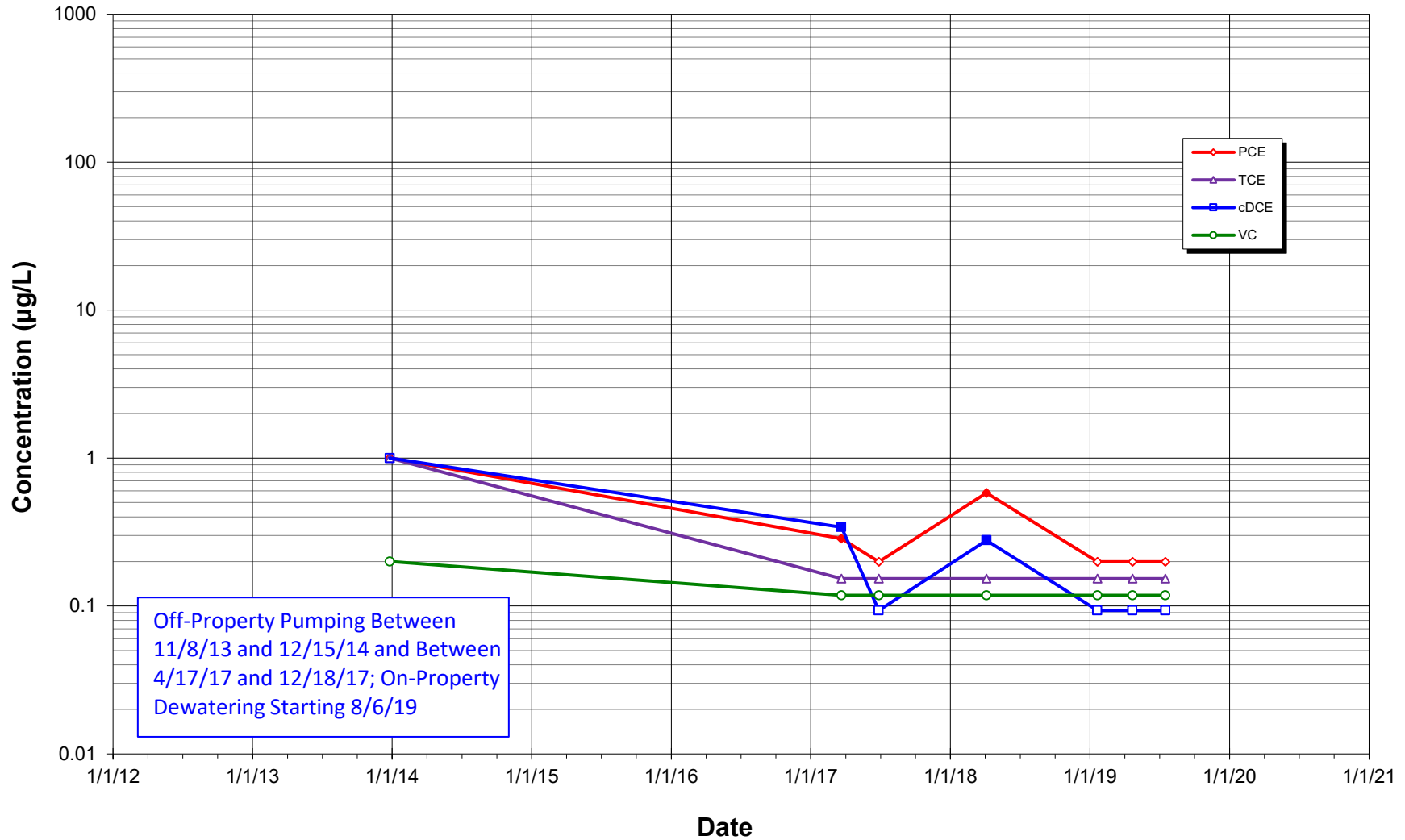
**Concentration vs Time**  
**MW121 (26.7 to 16.7 feet NAVD), 8th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

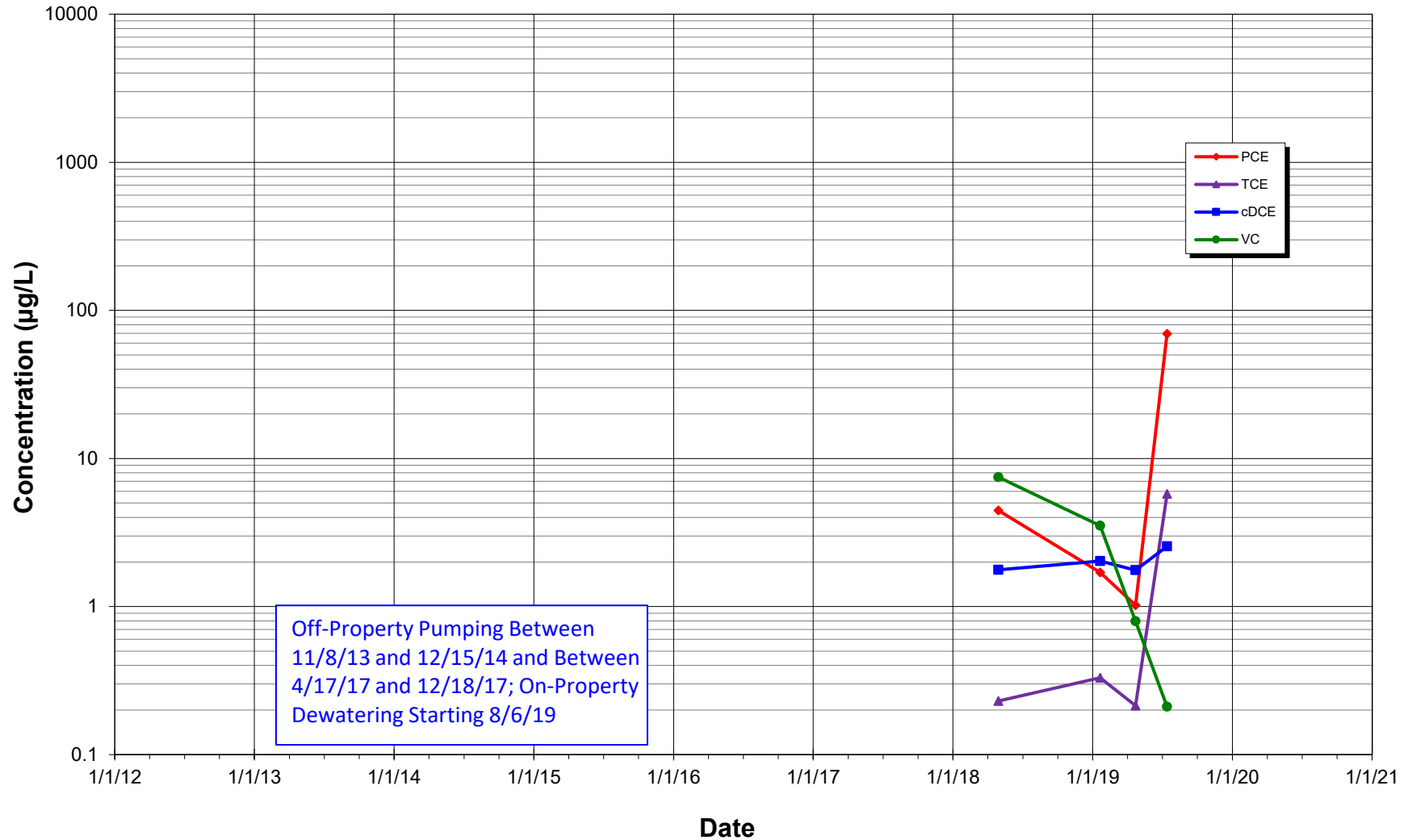
**Concentration vs Time  
MW125 (28.6 to 13.6 feet NAVD), Valley Street  
American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**MW-154 (28.1 to 18.1 feet NAVD), Roy Street**  
**American Linen Supply Co–Dexter Ave Site**

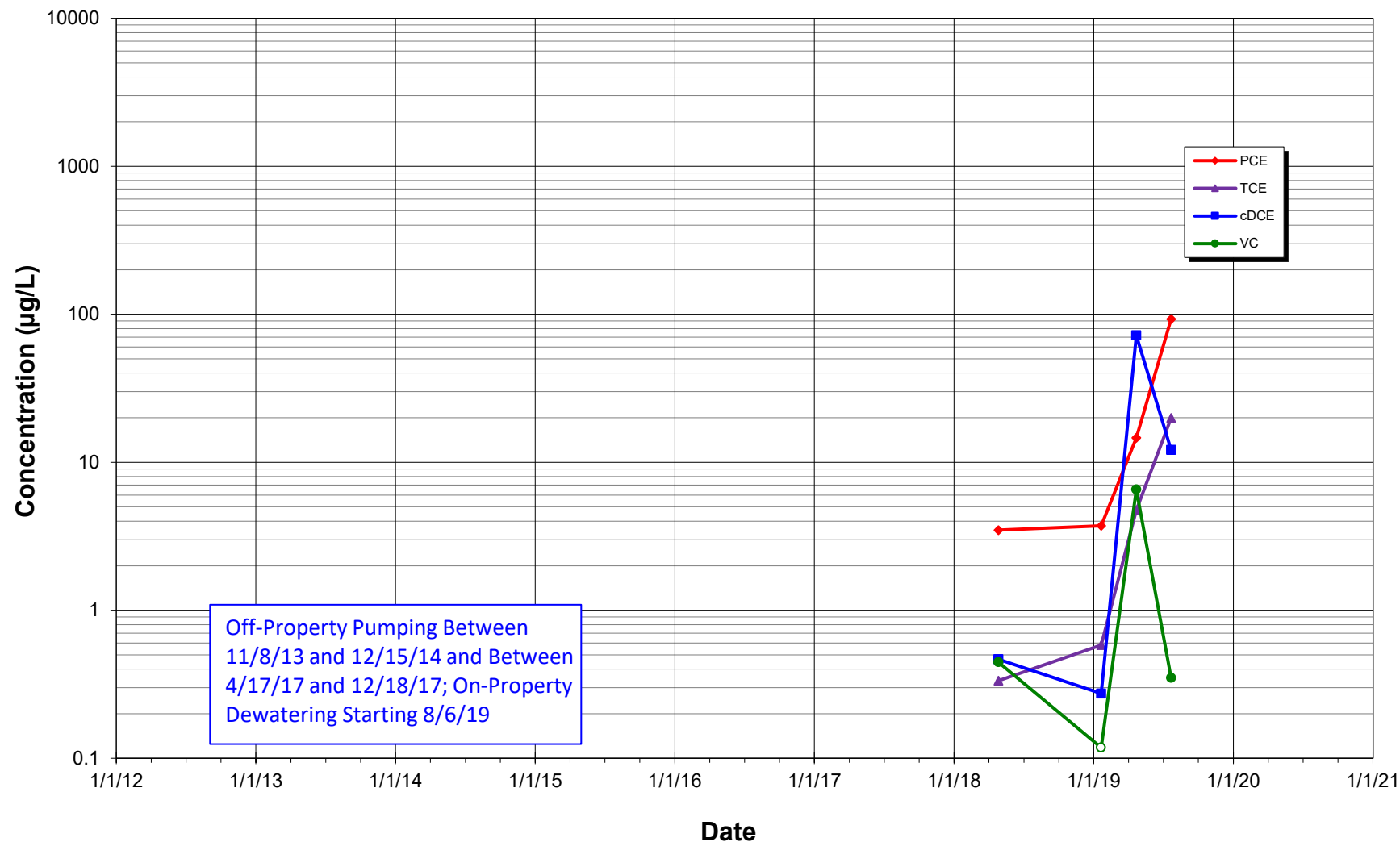


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



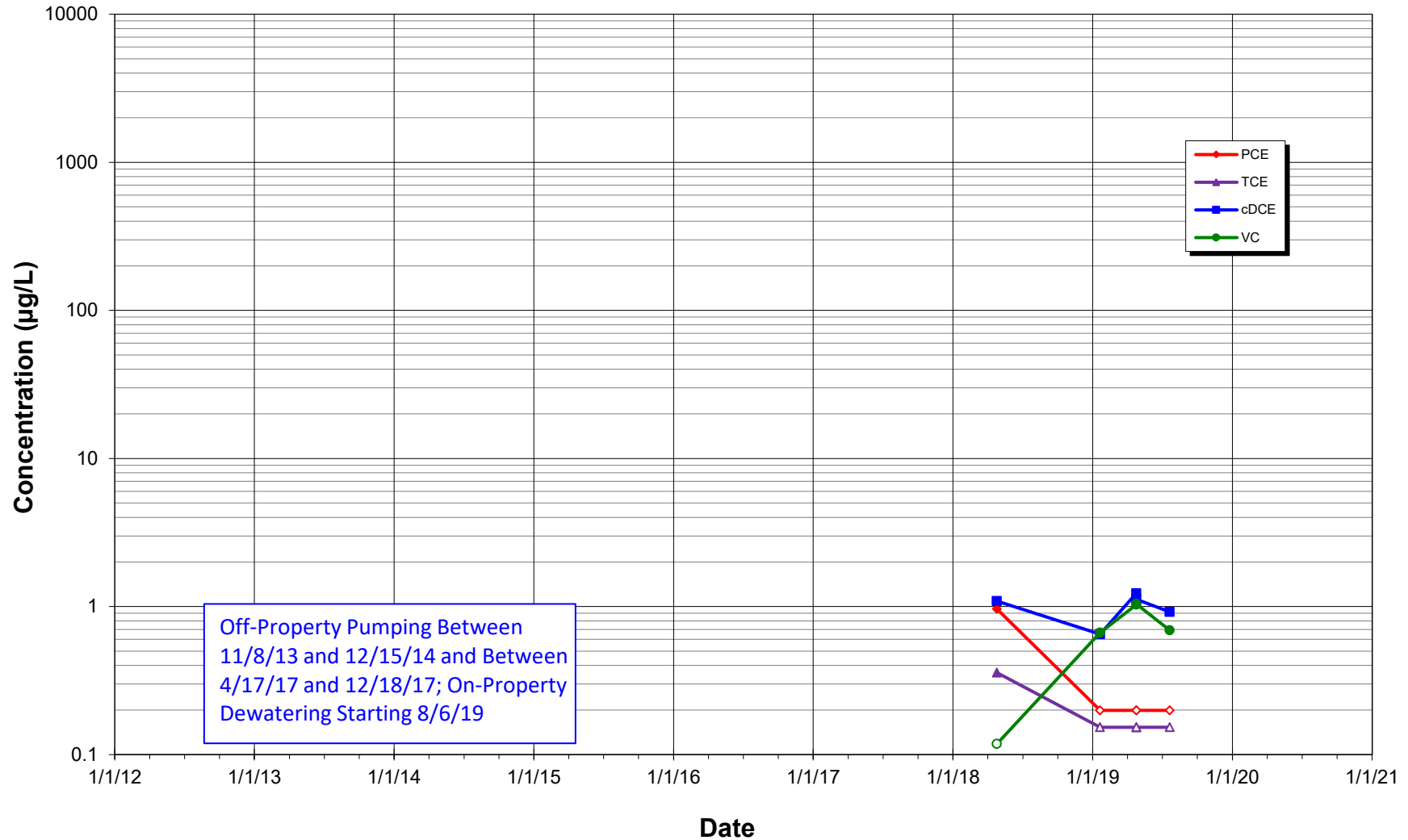
**Concentration vs Time**  
**MW-155 (24.4 to 14.4 feet NAVD), Roy Street**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

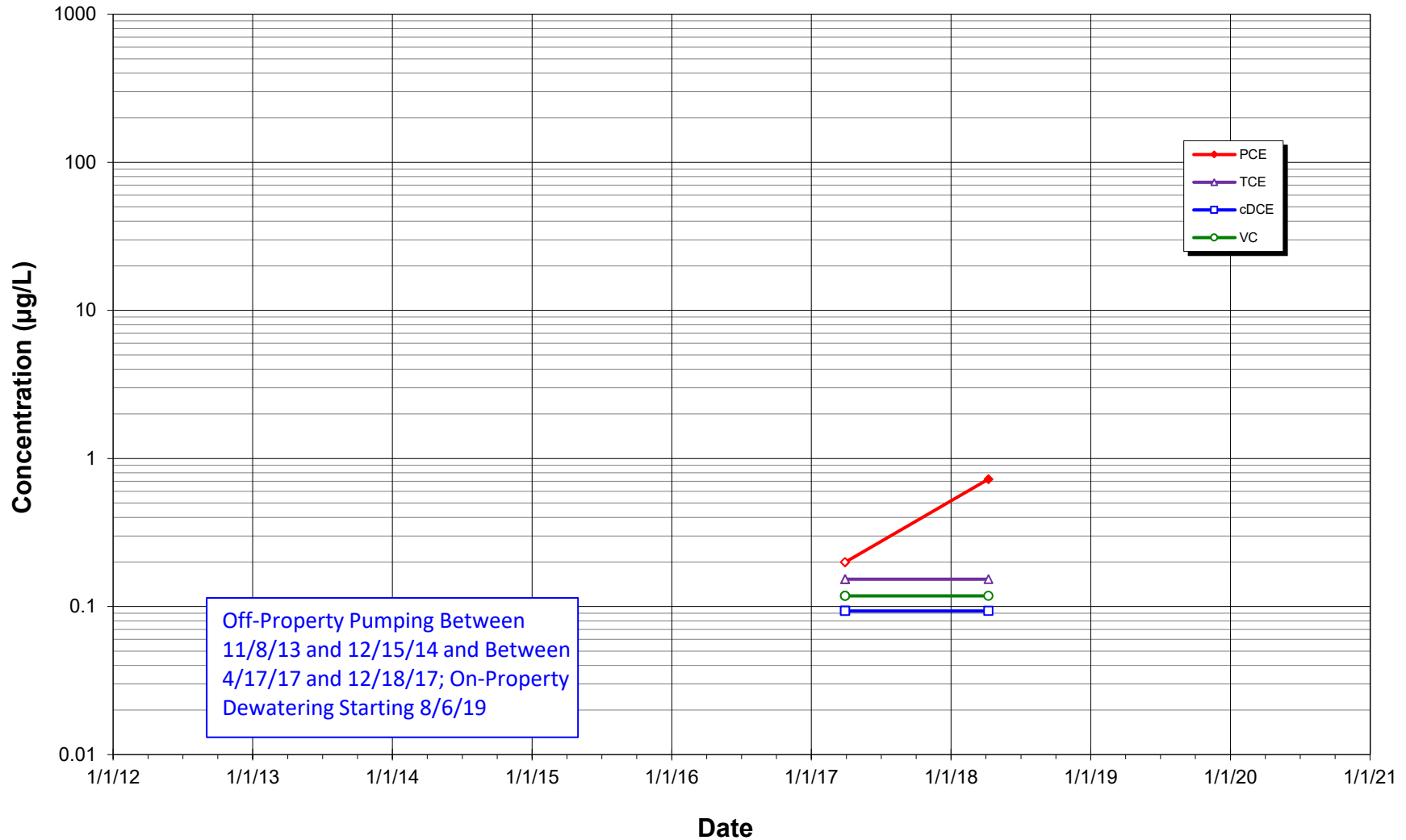
### Concentration vs Time MW-159 (22.9 to 12.9 feet NAVD), 8th Avenue North American Linen Supply Co–Dexter Ave Site



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

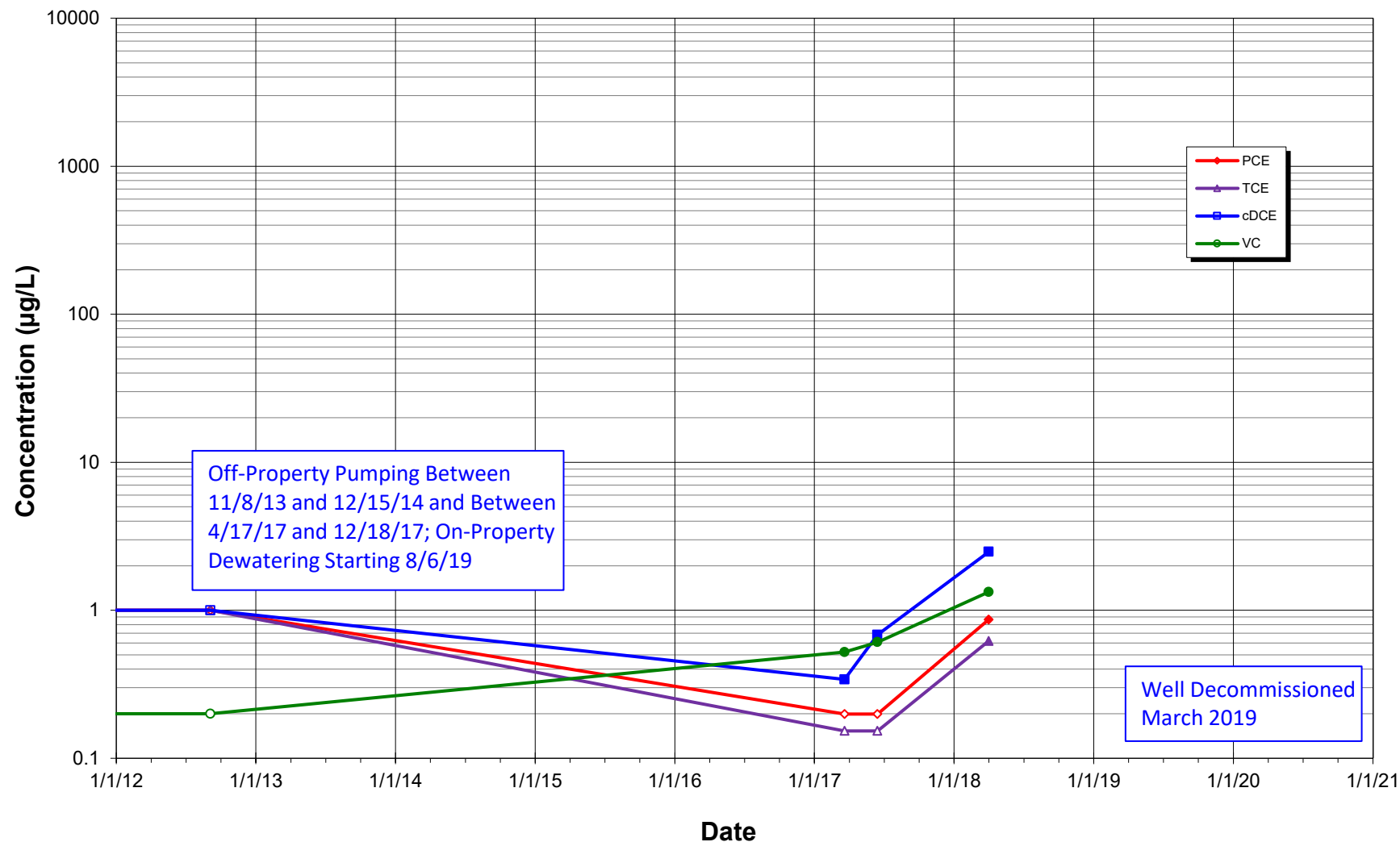
**Concentration vs Time  
MW-214 (20.8 to 10.8 feet NAVD), Valley Street  
American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

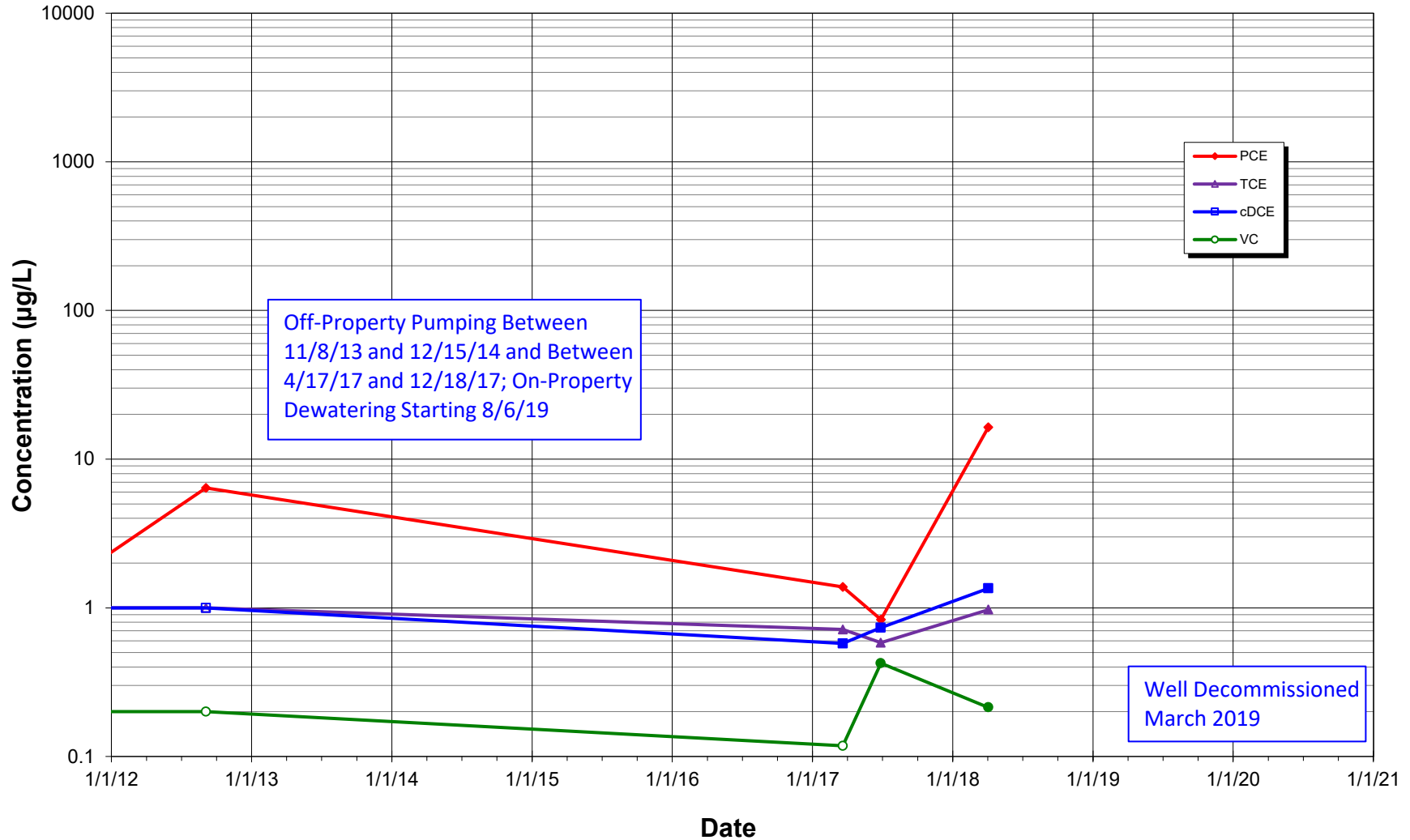
### Concentration vs Time R-MW2 (36.7 to 26.7 feet NAVD), Property American Linen Supply Co–Dexter Ave Site



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

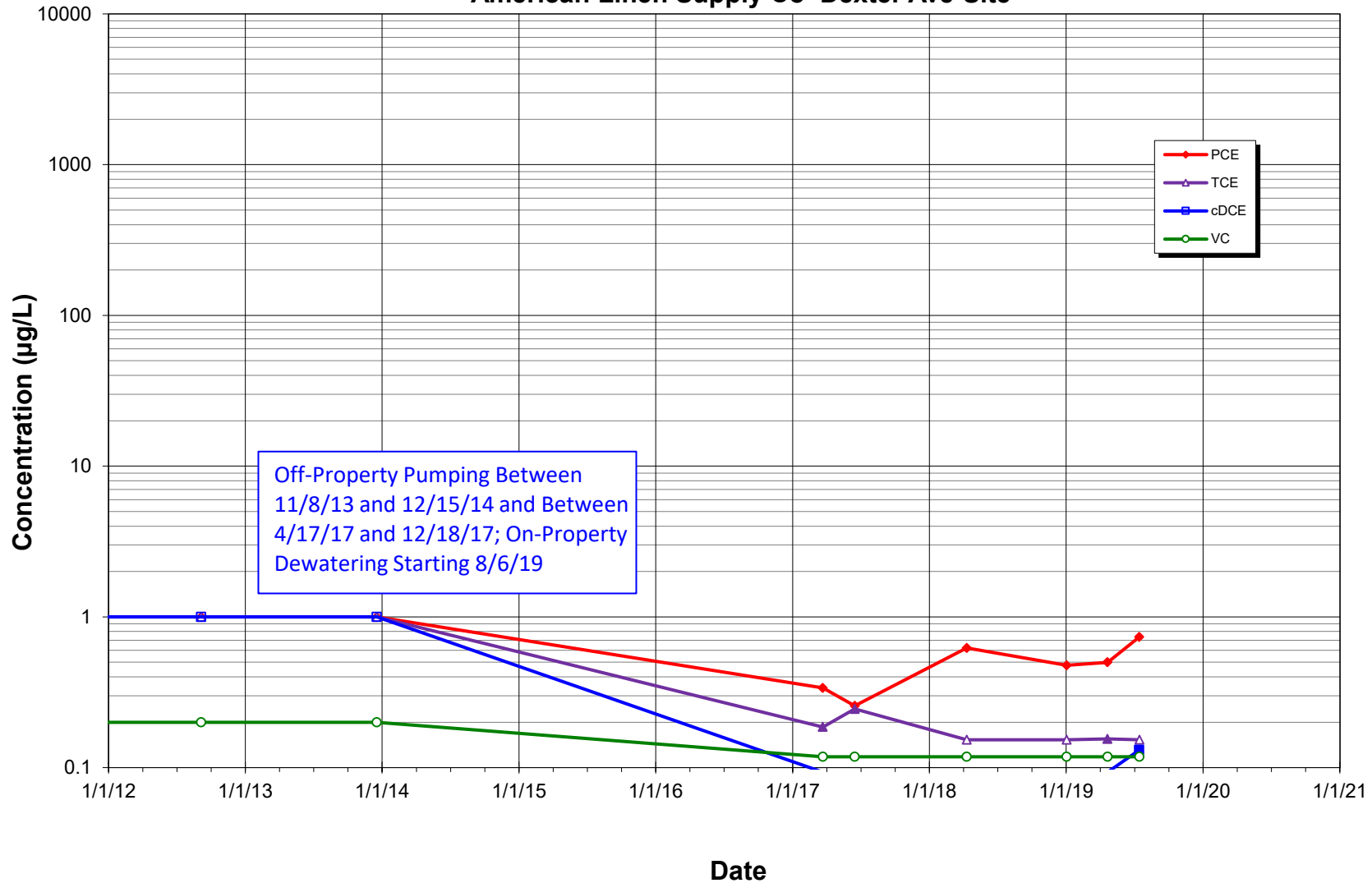
### Concentration vs Time R-MW3 (34.7 to 24.7 feet NAVD), Property American Linen Supply Co–Dexter Ave Site



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

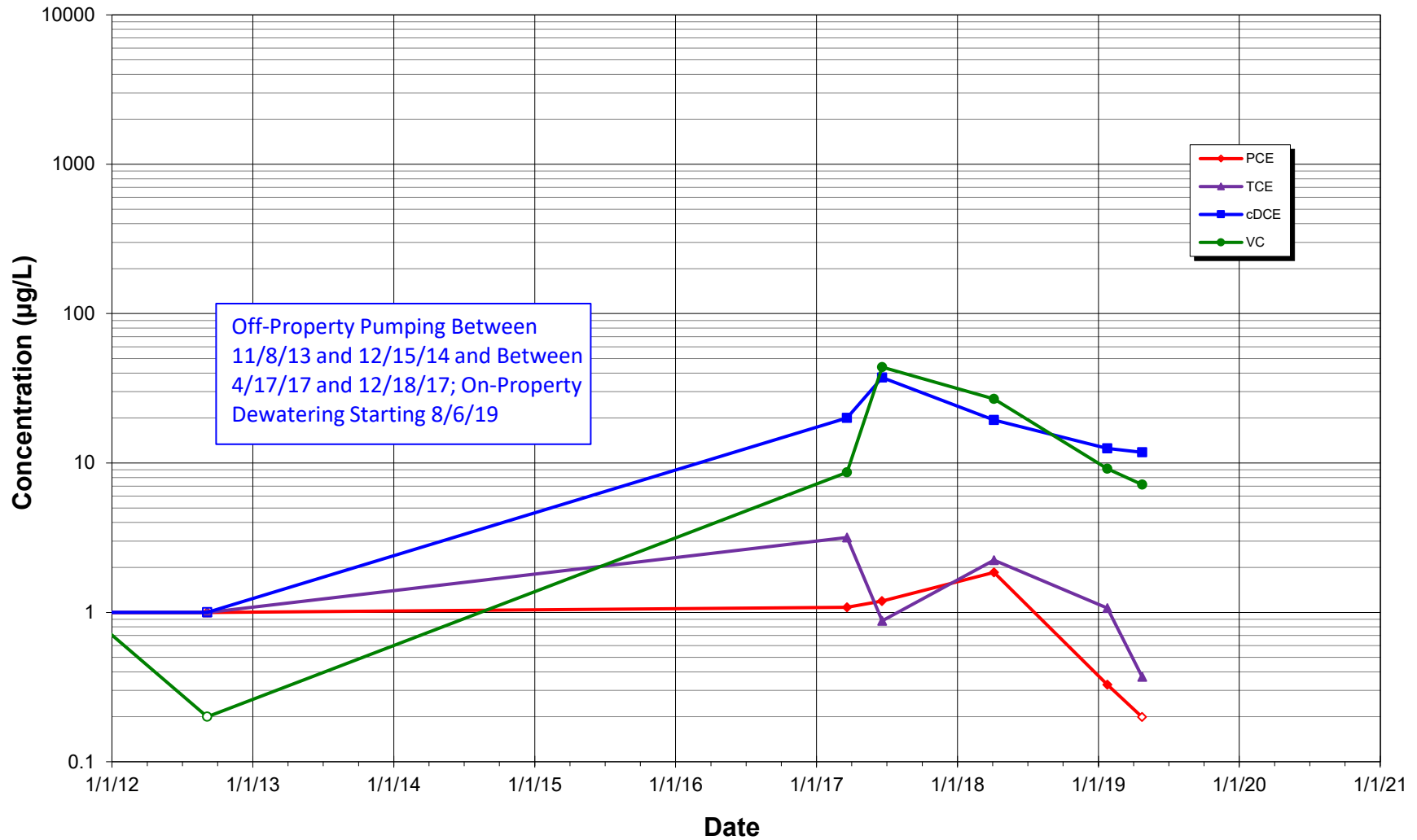
**Concentration vs Time**  
**R-MW5 (42.0 to 27.0 feet NAVD), Dexter Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

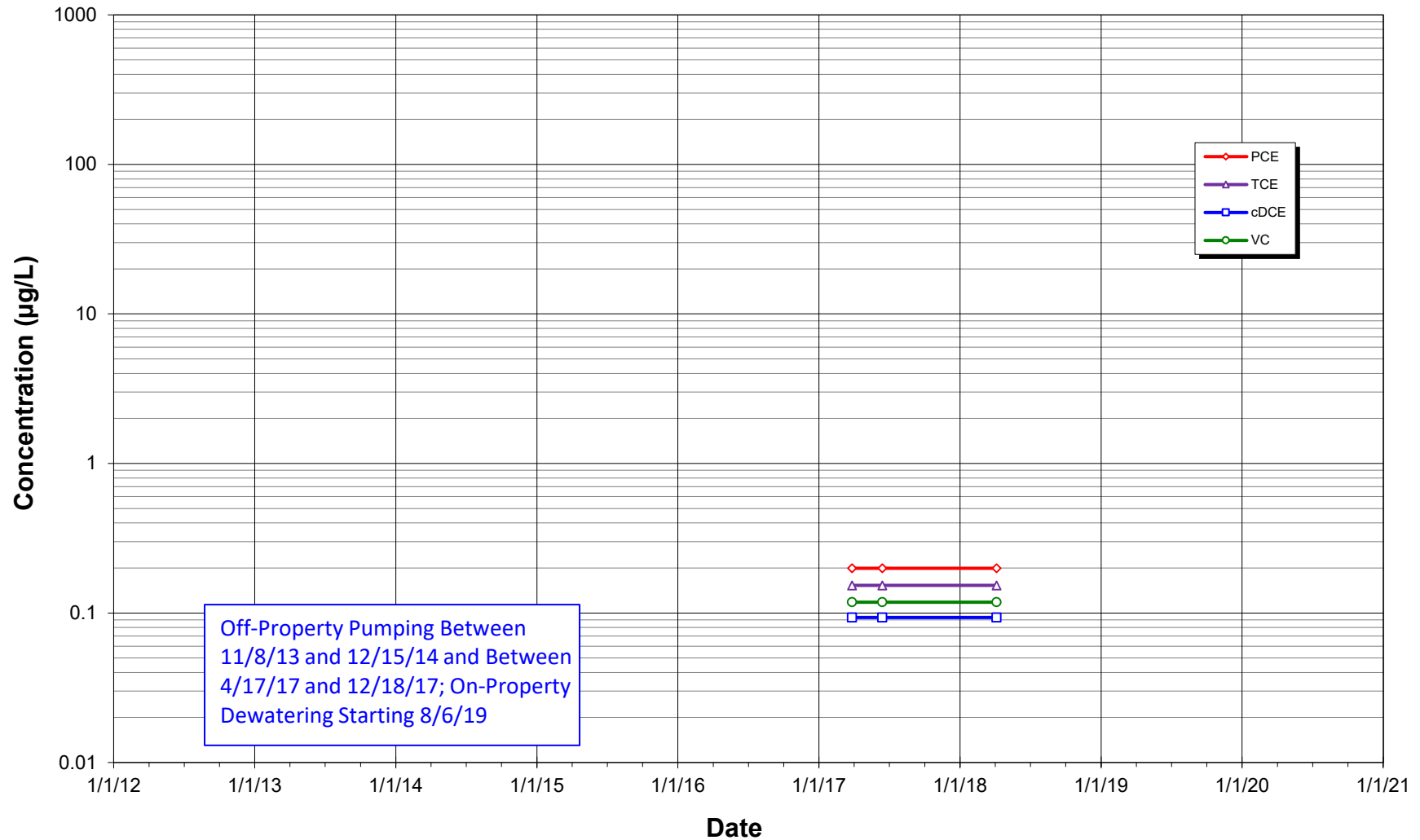
**Concentration vs Time  
R-MW6 (33.3 to 23.3 feet NAVD), 8th Avenue North  
American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**SCL-MW101 (25.5 to 15.5 feet NAVD), Alley**  
**American Linen Supply Co–Dexter Ave Site**

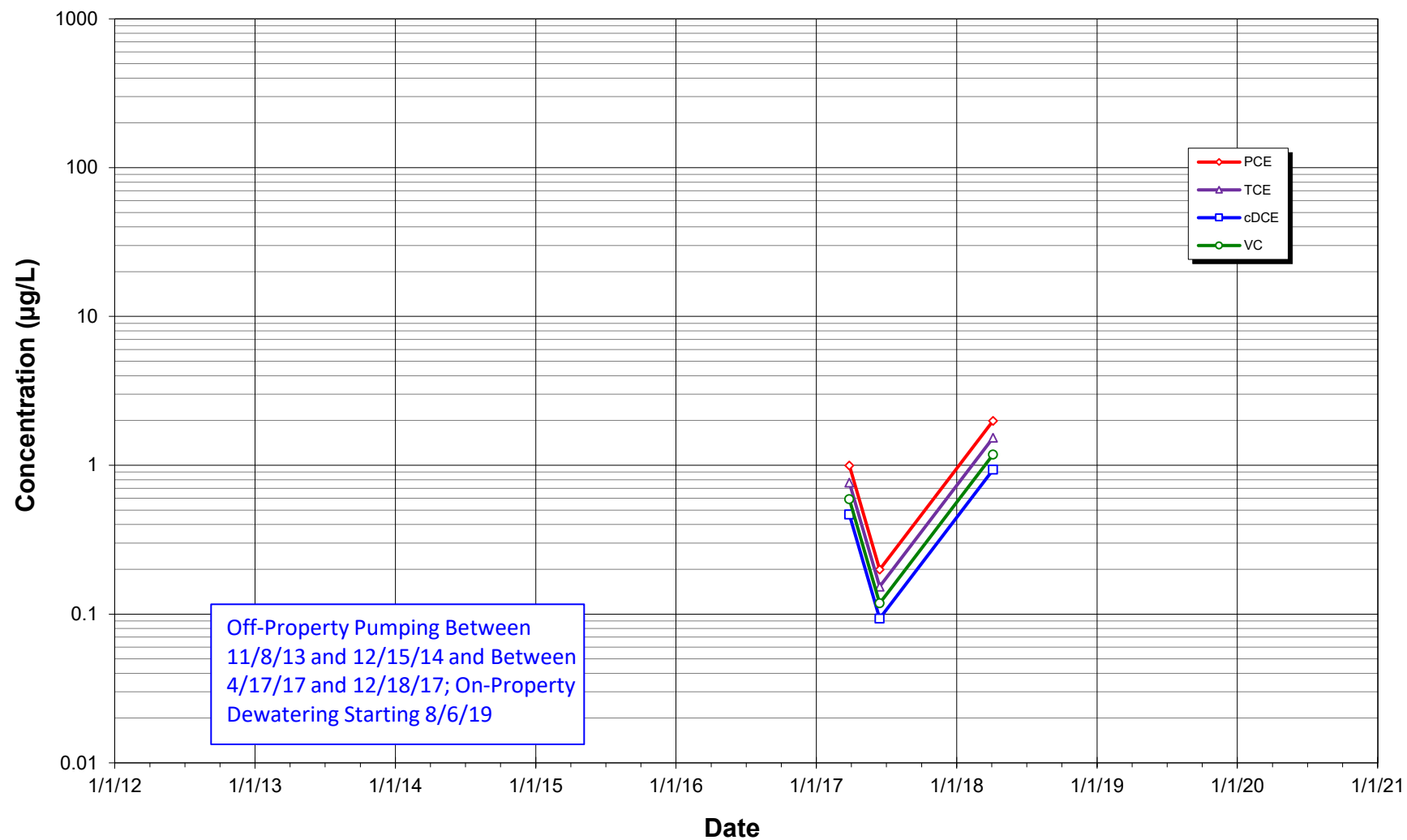


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



### Concentration vs Time SCL-MW105 (11.3 to 1.3 feet NAVD), Alley American Linen Supply Co–Dexter Ave Site

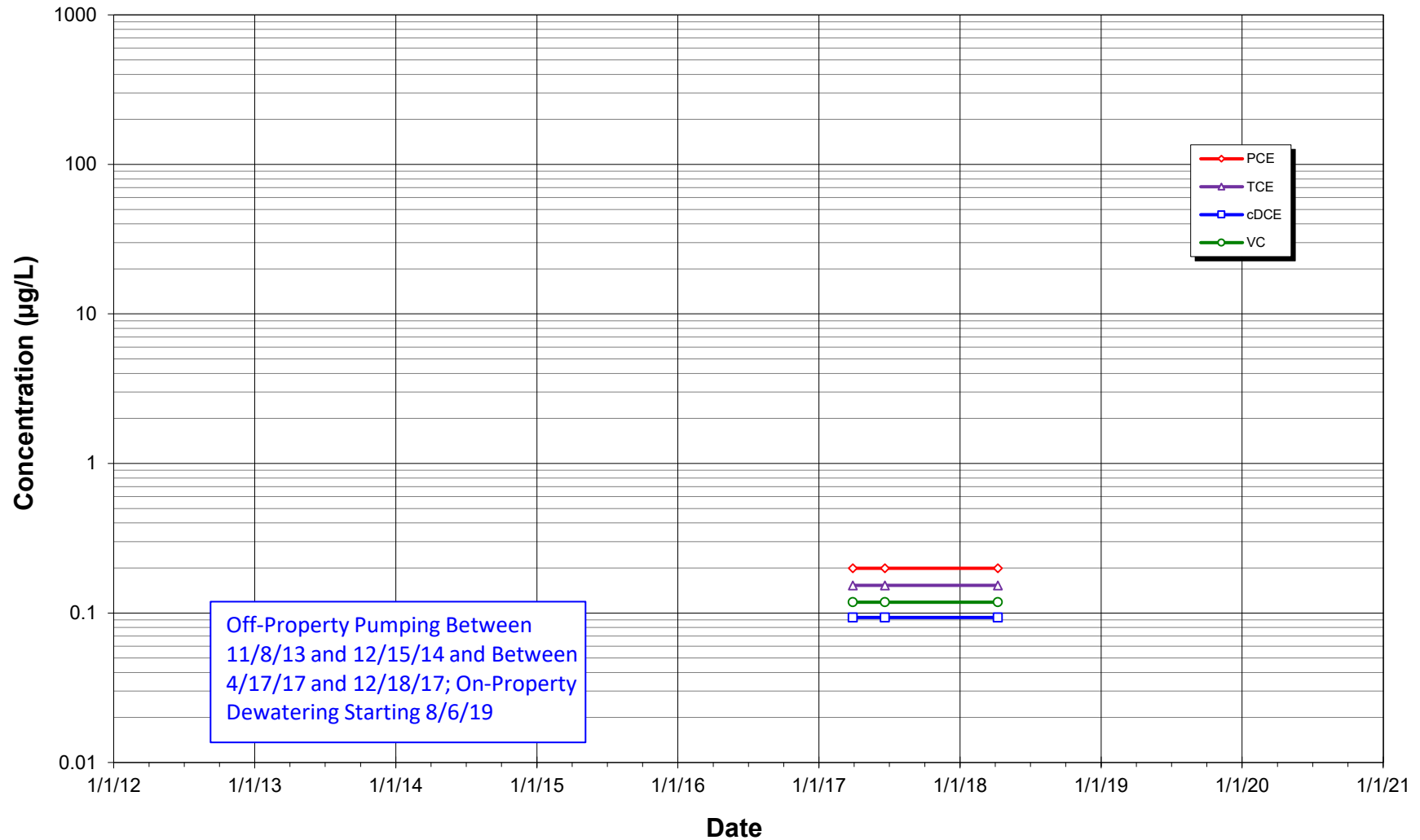


Off-Property Pumping Between 11/8/13 and 12/15/14 and Between 4/17/17 and 12/18/17; On-Property Dewatering Starting 8/6/19

**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

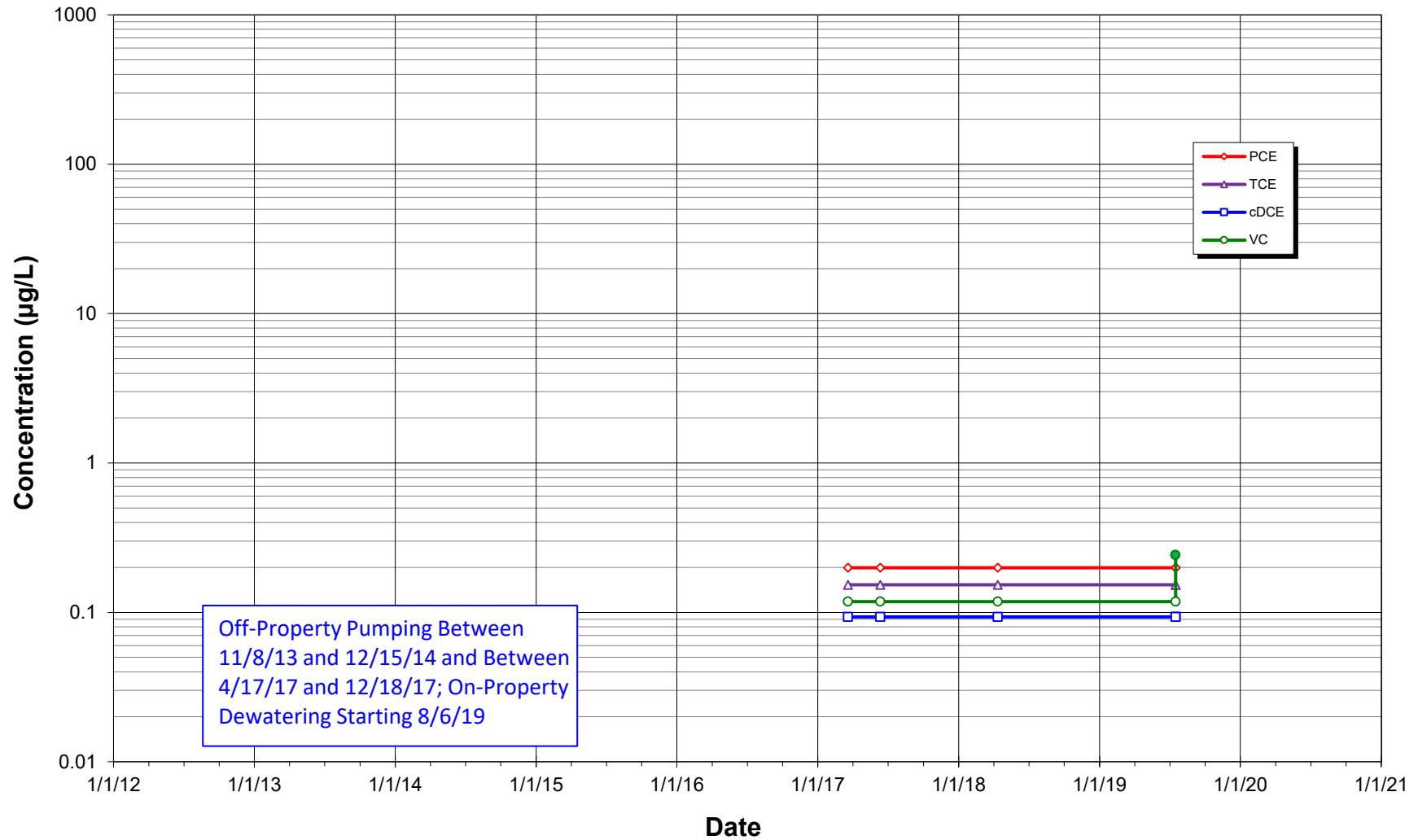
**Concentration vs Time  
SCS-2 (28.2 to 18.2 feet NAVD), SCL Property  
American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**SMW-3 (17.1 to 7.1 feet NAVD), Valley Street**  
**American Linen Supply Co–Dexter Ave Site**

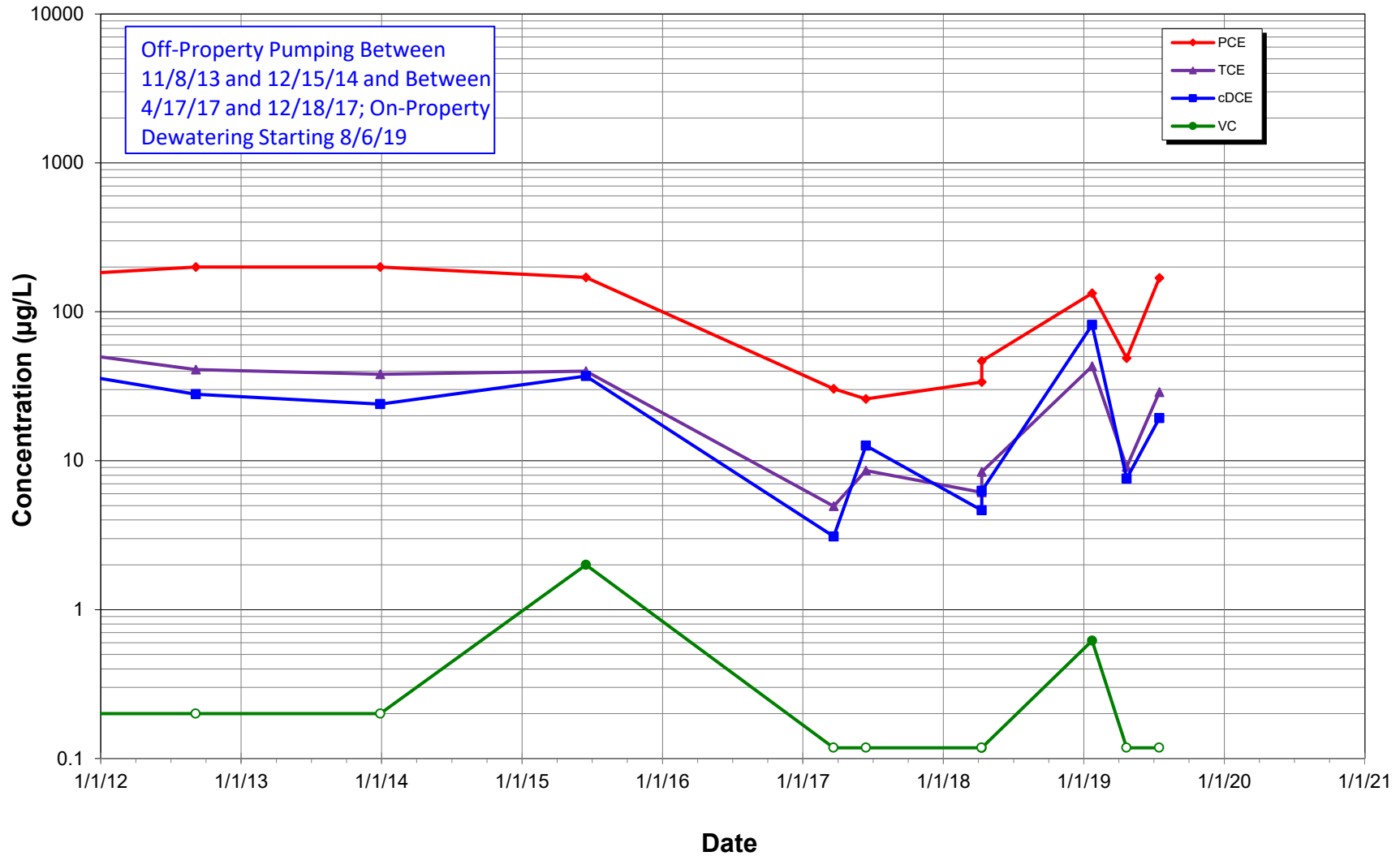


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Attachment A**  
**Intermediate Well Time-Trend Plots**

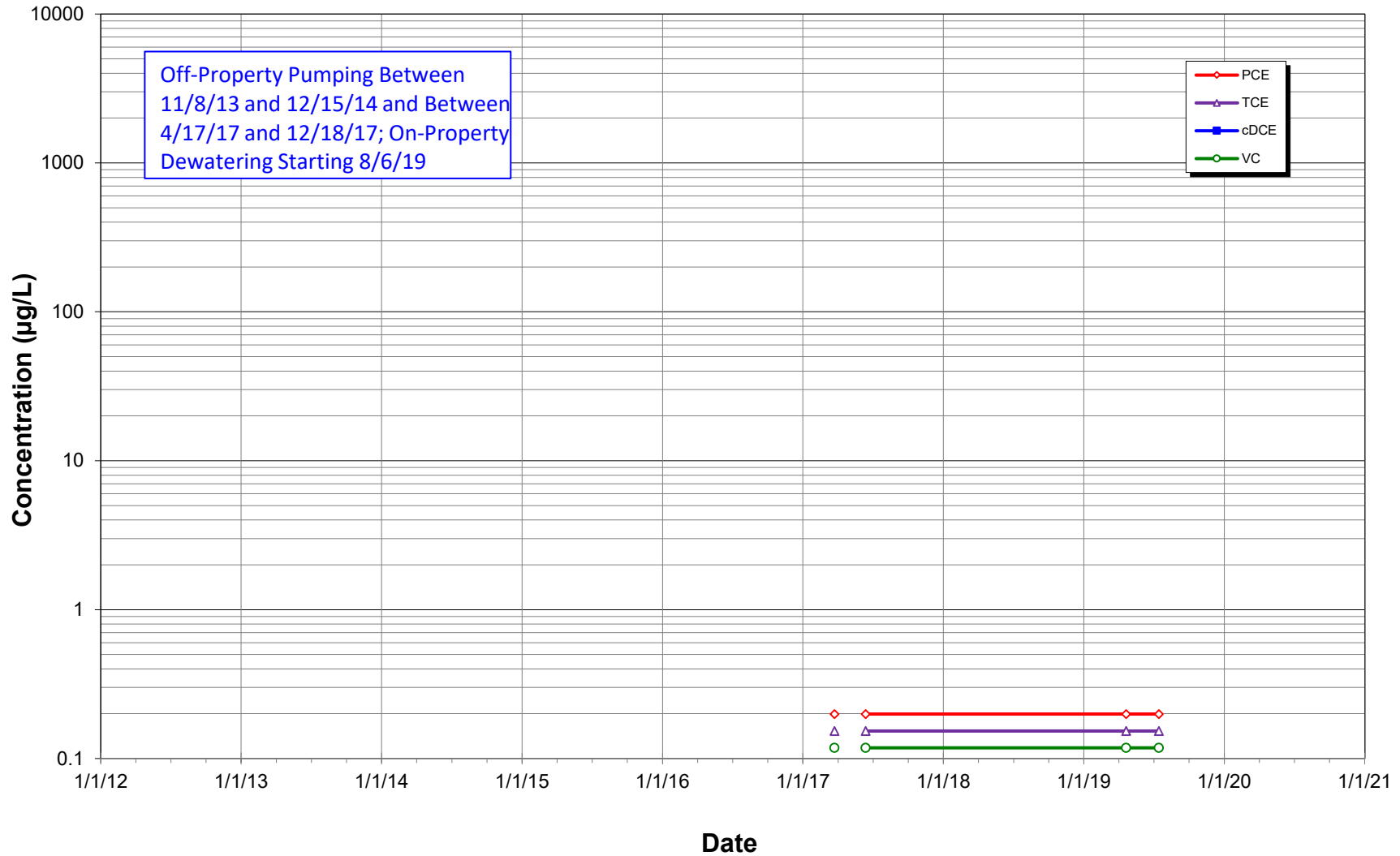
**Concentration vs Time**  
**BB-8 (13.7 to 3.7 feet NAVD), Roy Street**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

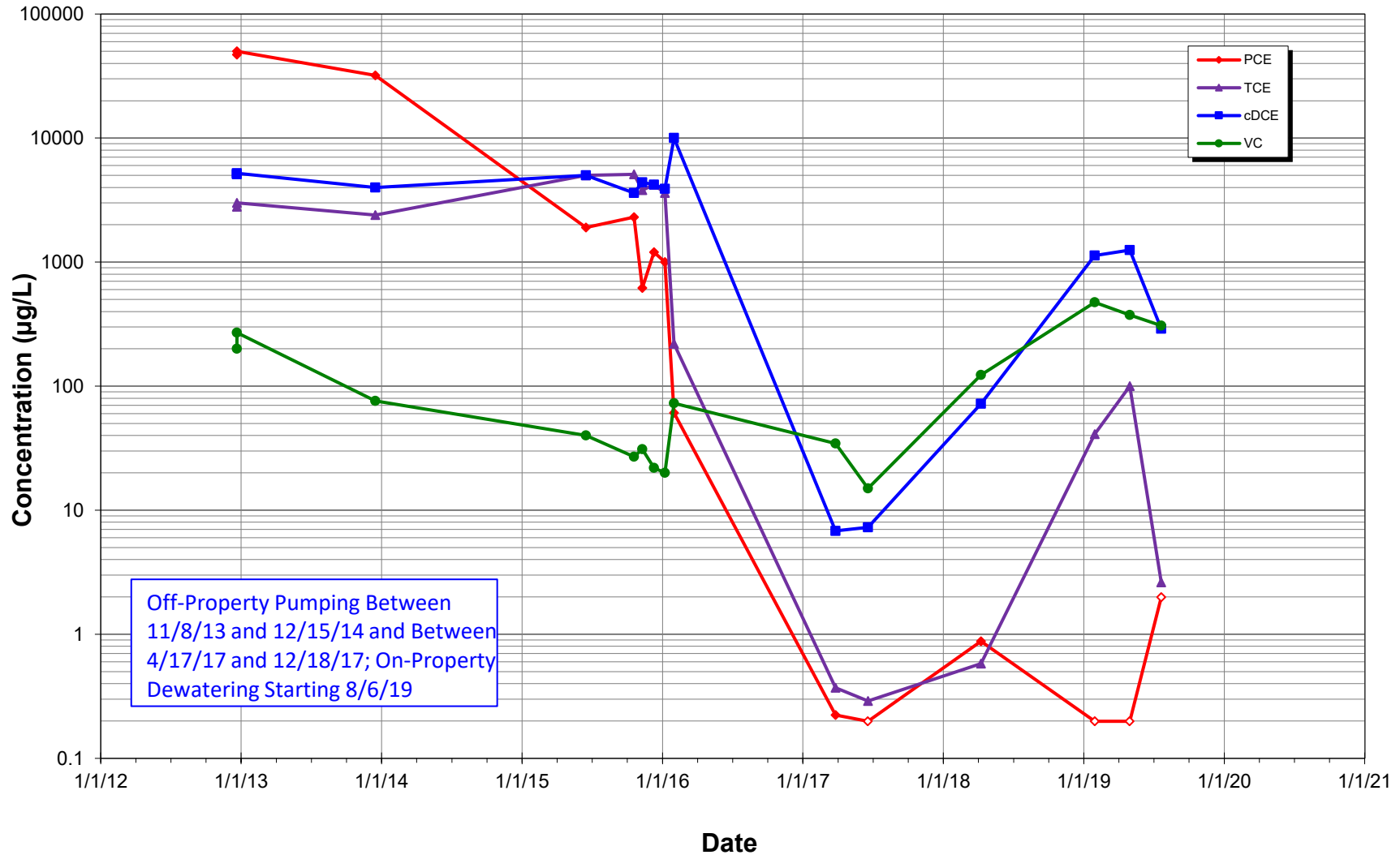
**Concentration vs Time  
 GEI-1 (1.2 to -8.8 feet NAVD), Block 37  
 American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

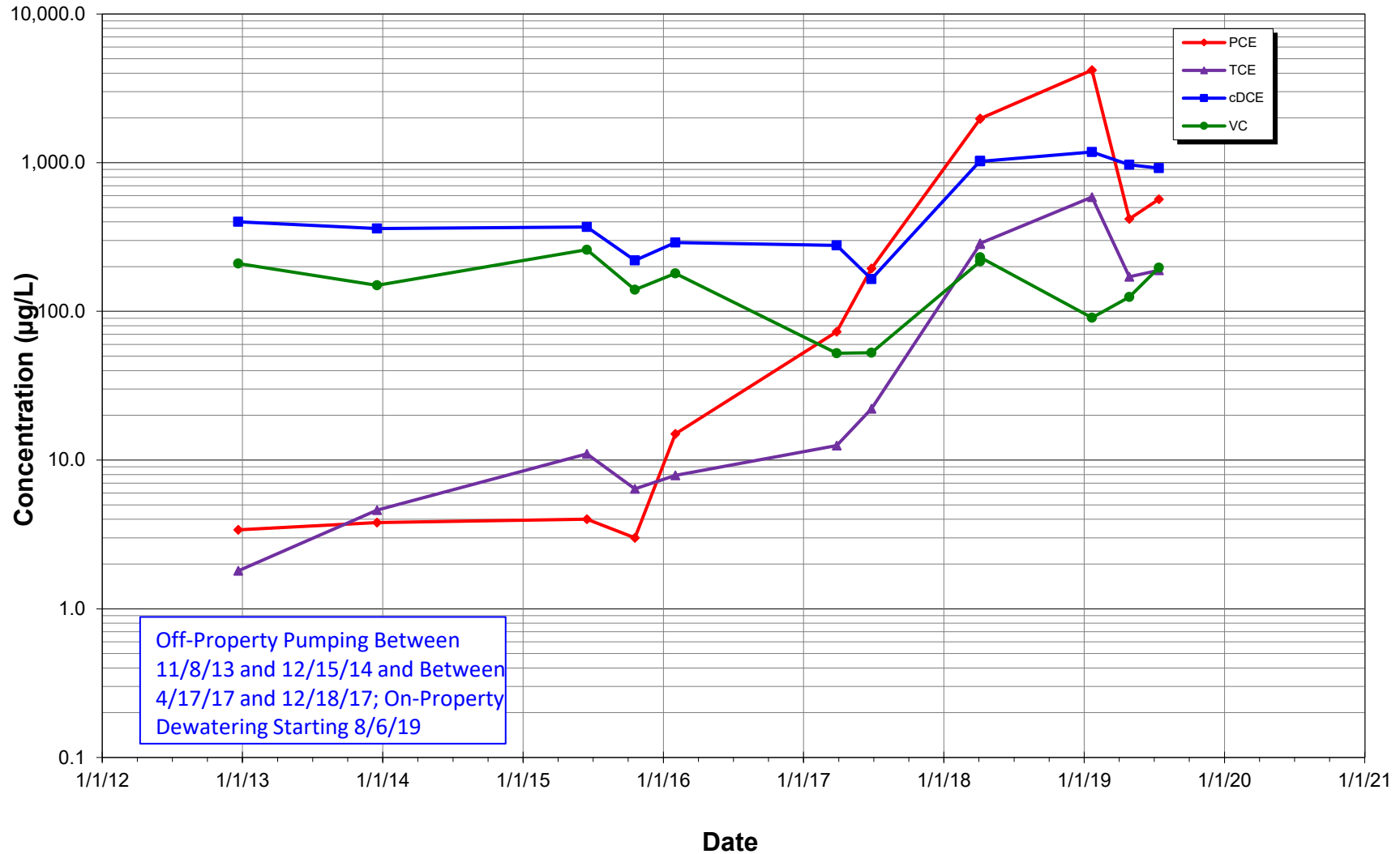
**Concentration vs Time**  
**MW107 (8.8 to 1.2 feet NAVD), 8th Avenue**  
**American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
MW108 (-7.2 to -17.2 feet NAVD), Alley  
American Linen Supply Co-Dexter Ave Site**

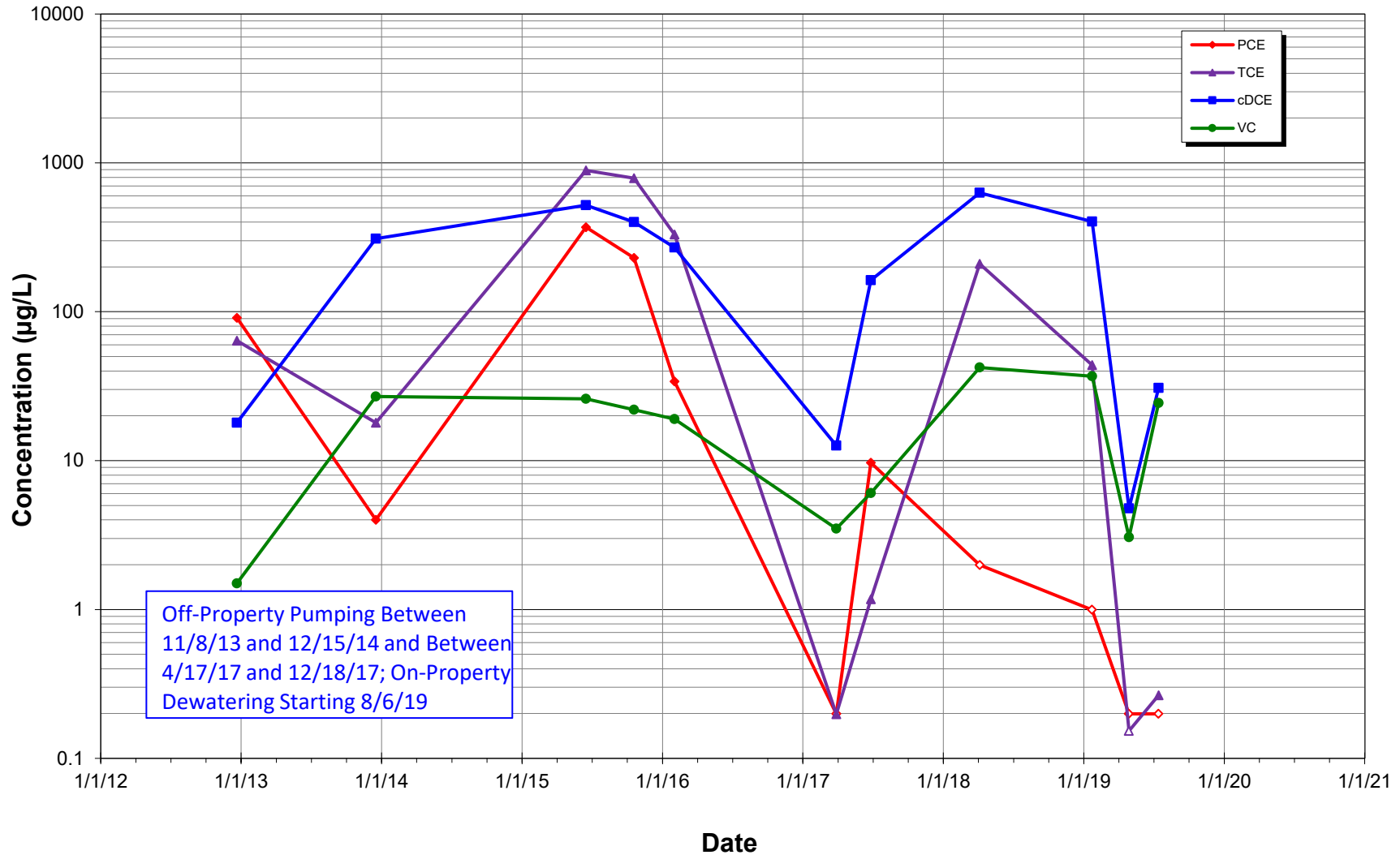


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



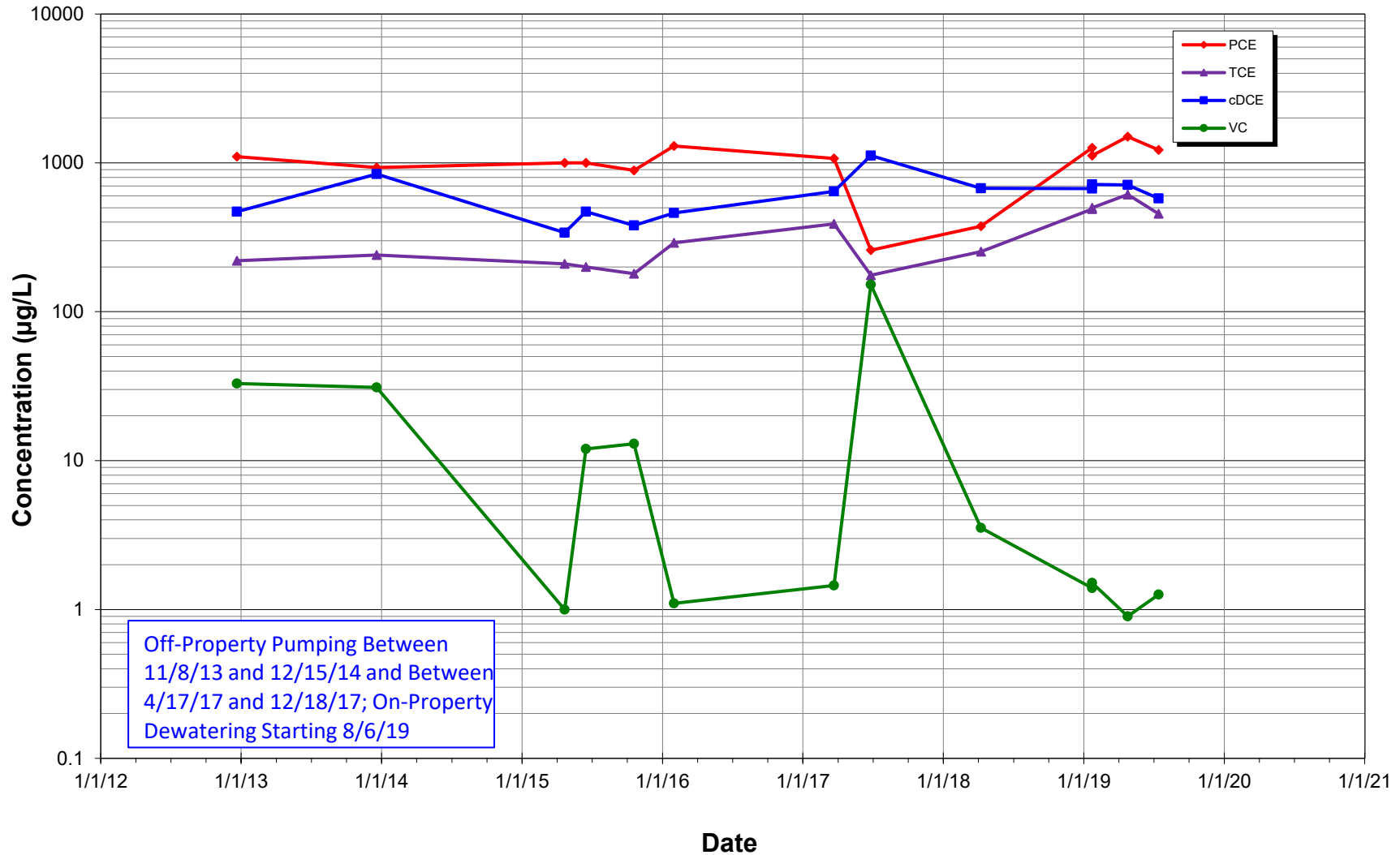
**Concentration vs Time  
MW109 (0.0 to -10.0), Alley  
American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

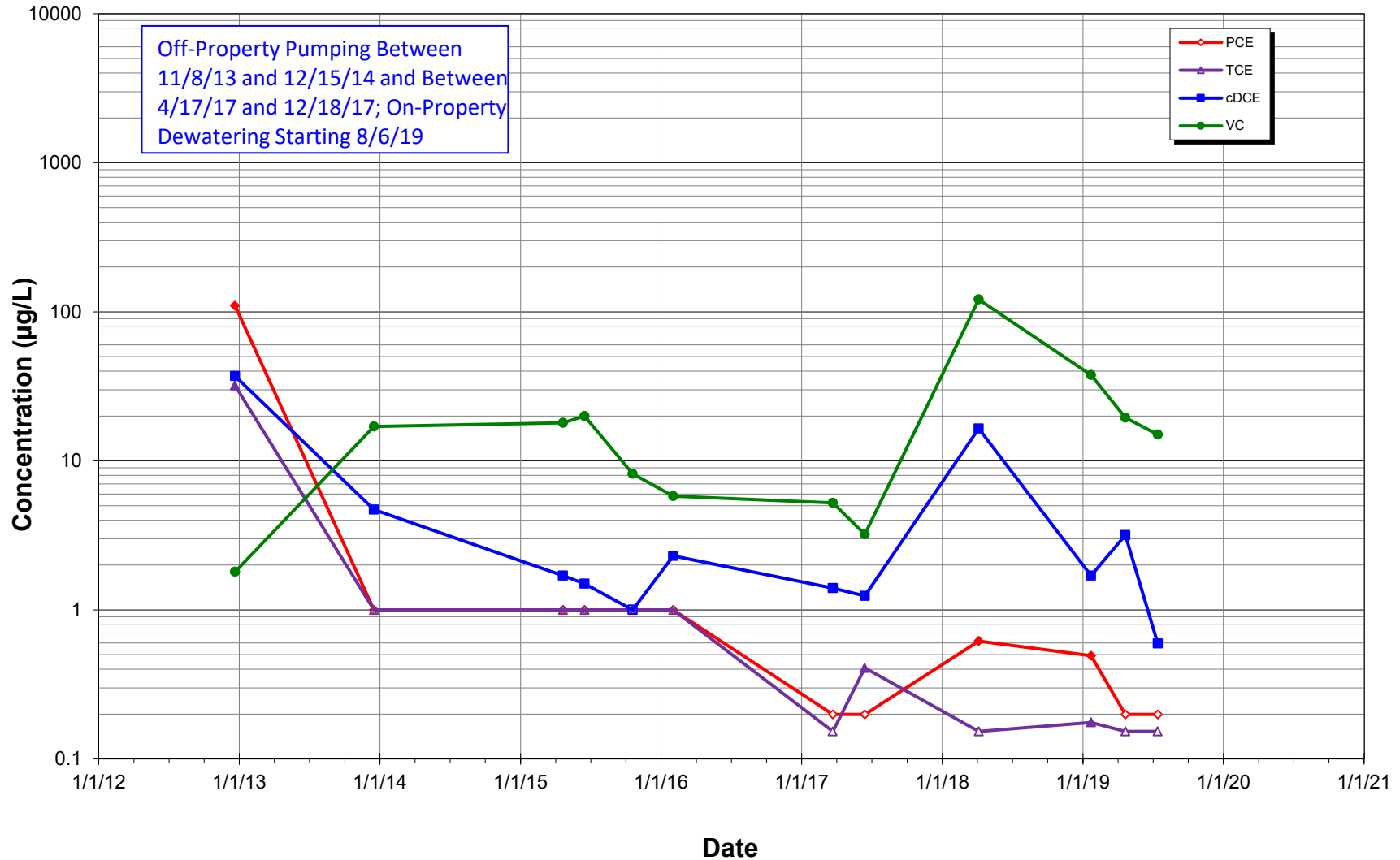
**Concentration vs Time  
MW110 (4.7 to -5.3 feet NAVD), Alley  
American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

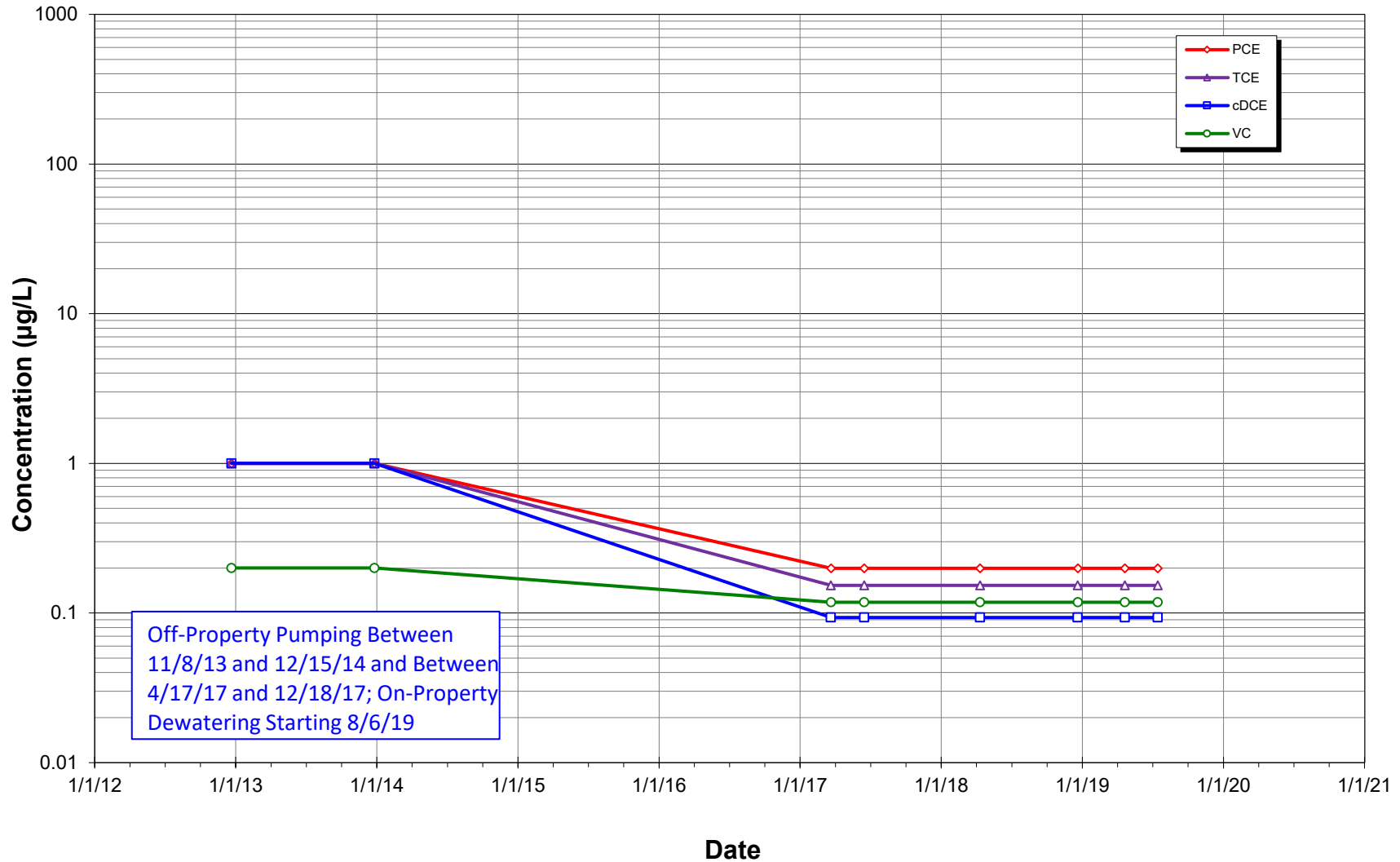
**Concentration vs Time  
MW111 (-33.5 to -43.5 feet NAVD), Alley  
American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

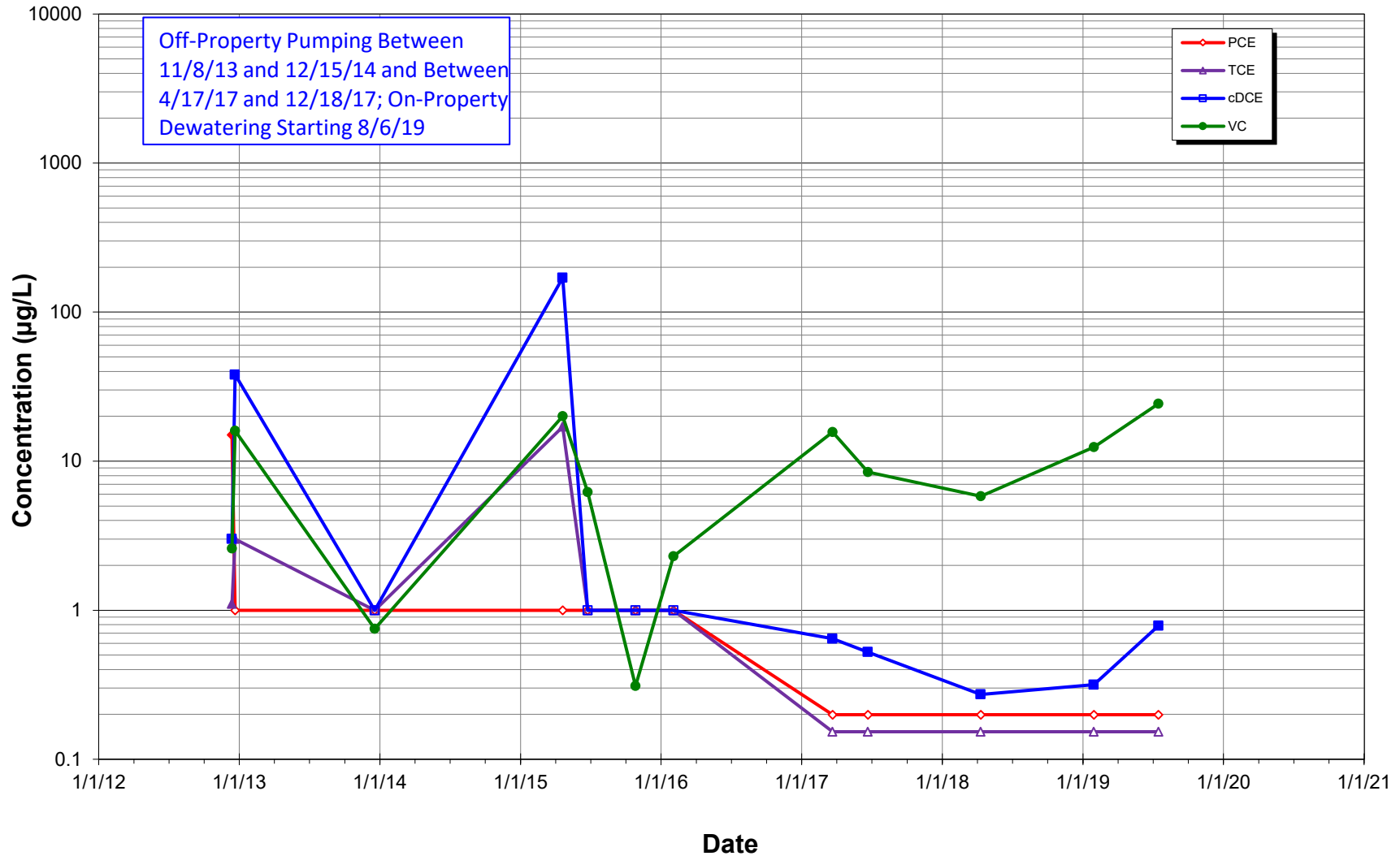
**Concentration vs Time  
MW112 (-17.3 to -27.3 feet NAVD), Dexter Avenue  
American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

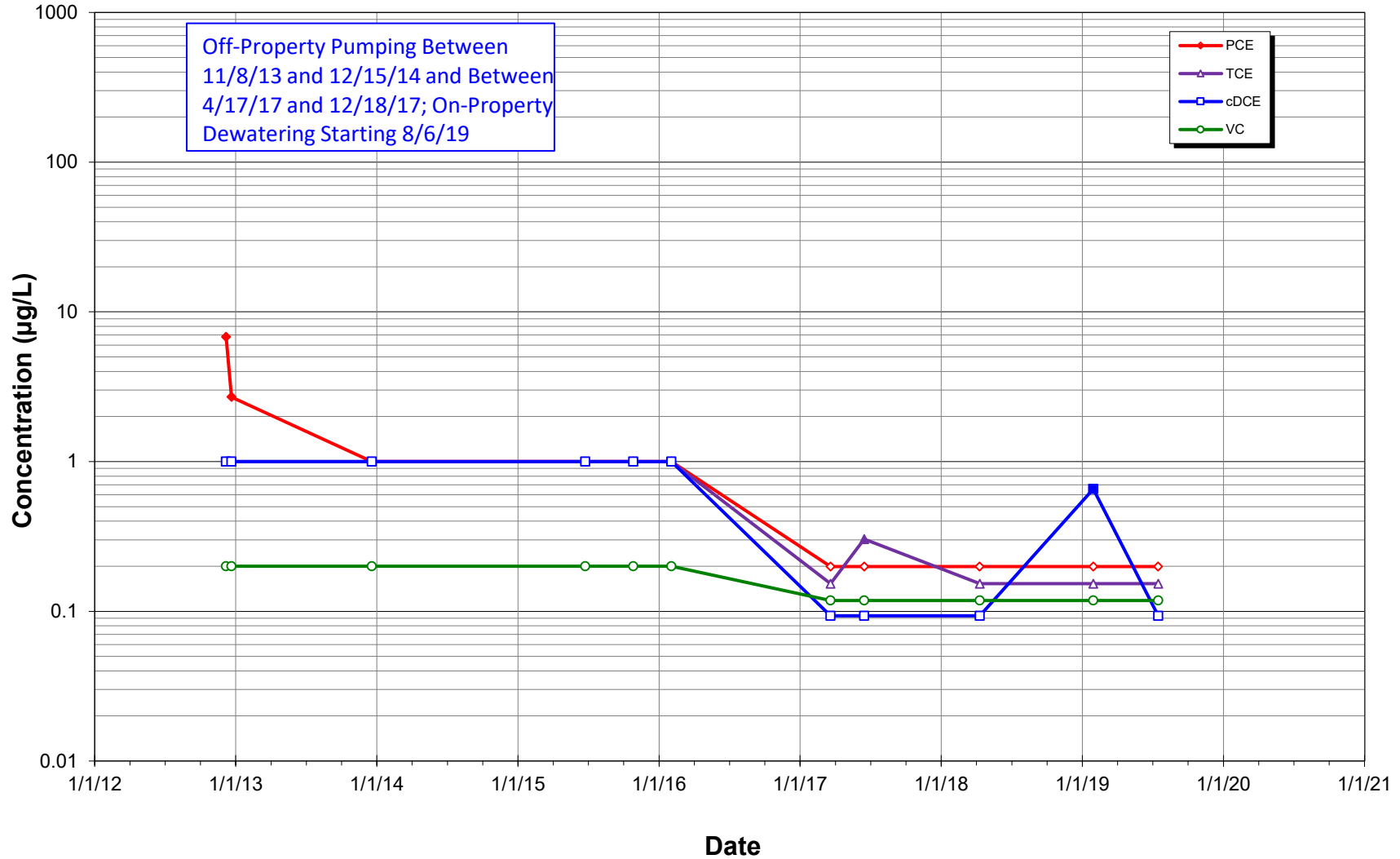
**Concentration vs Time**  
**MW115 (-0.6 to -10.6 feet NAVD), 9th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

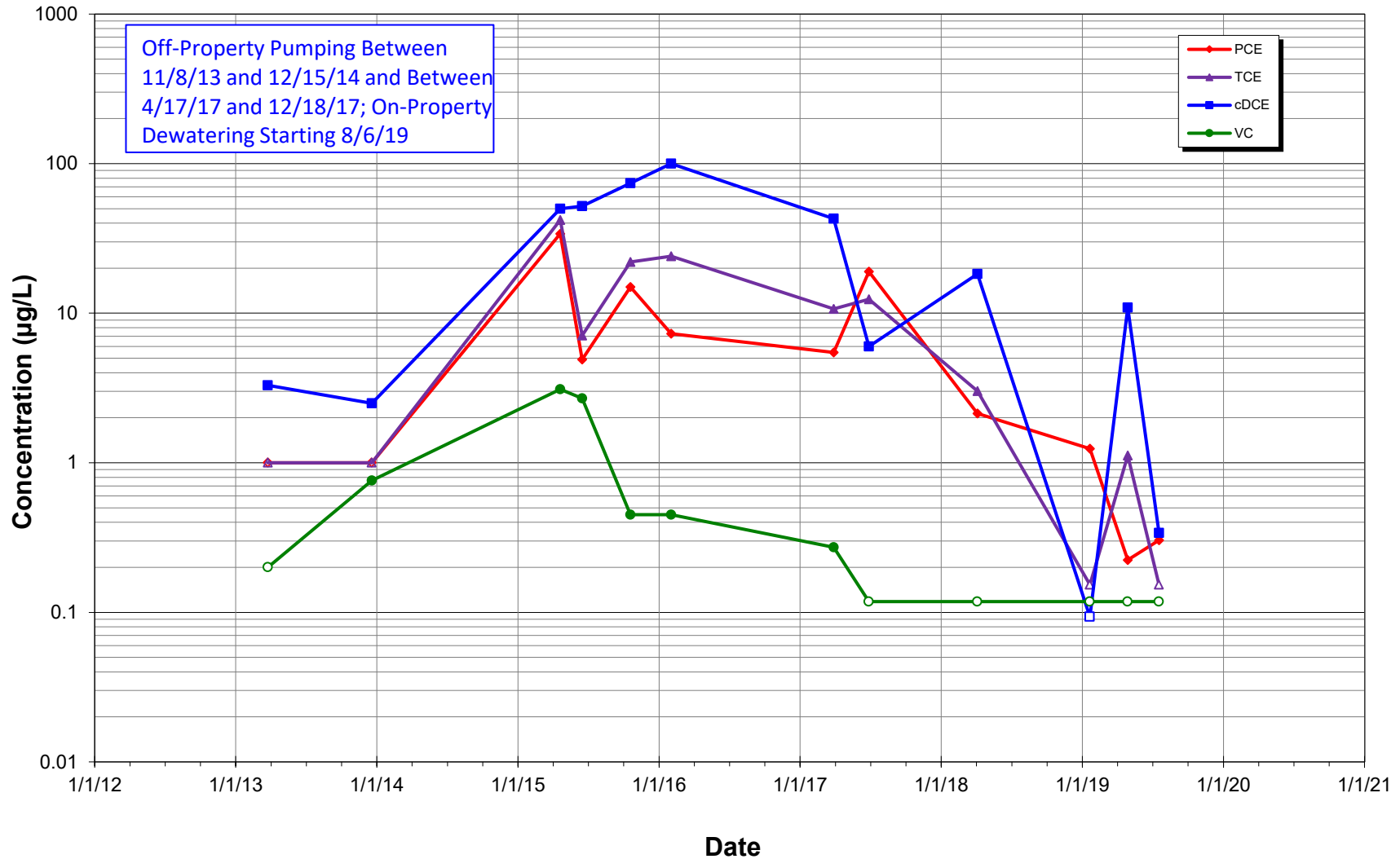
**Concentration vs Time**  
**MW116 (-3.1 to -13.1 feet NAVD), 9th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

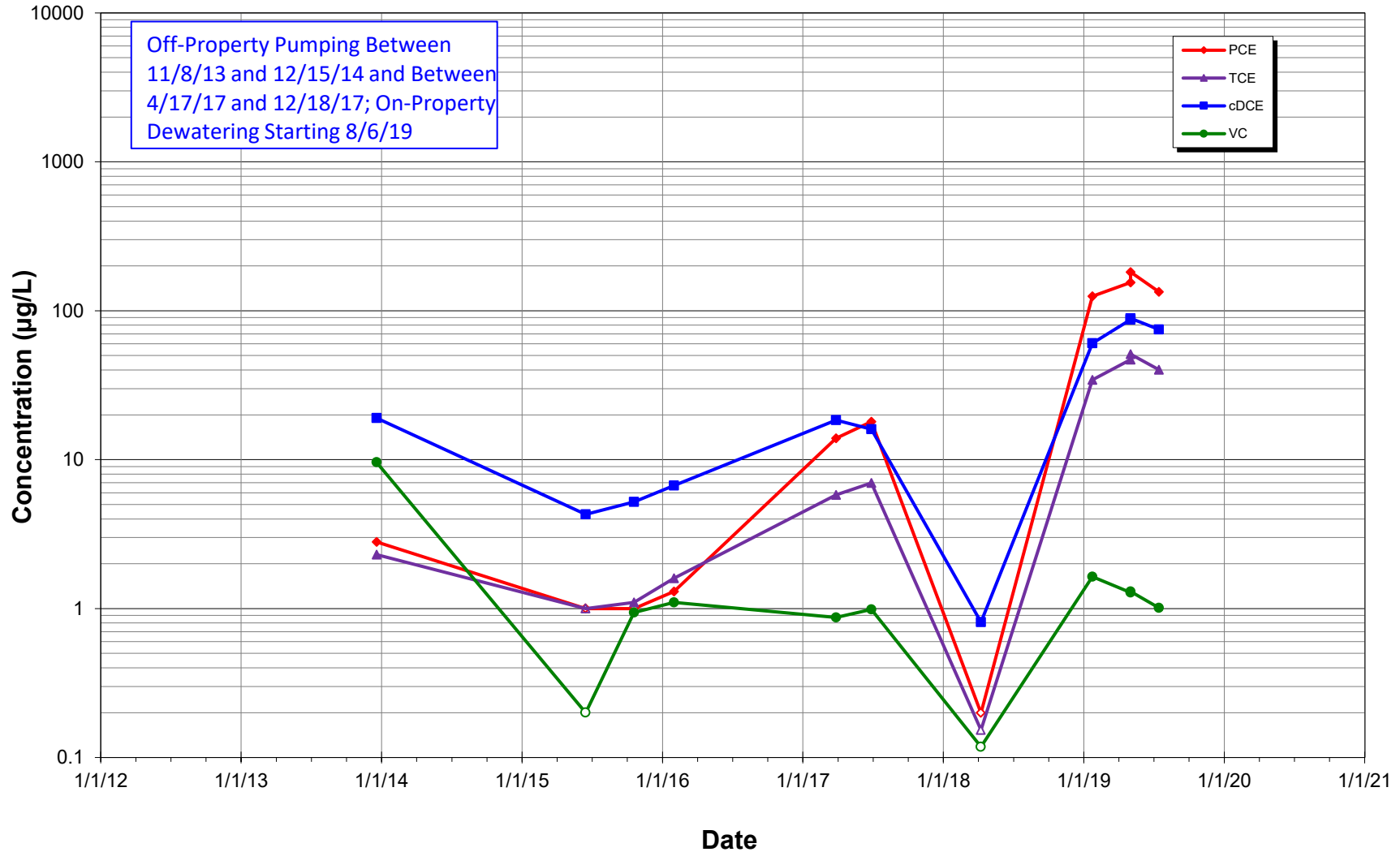
**Concentration vs Time  
MW119 (2.7 to -7.3 feet NAVD), 9th Avenue North  
American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**MW120 (0.0 to -10.0 feet NAVD), 8th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**

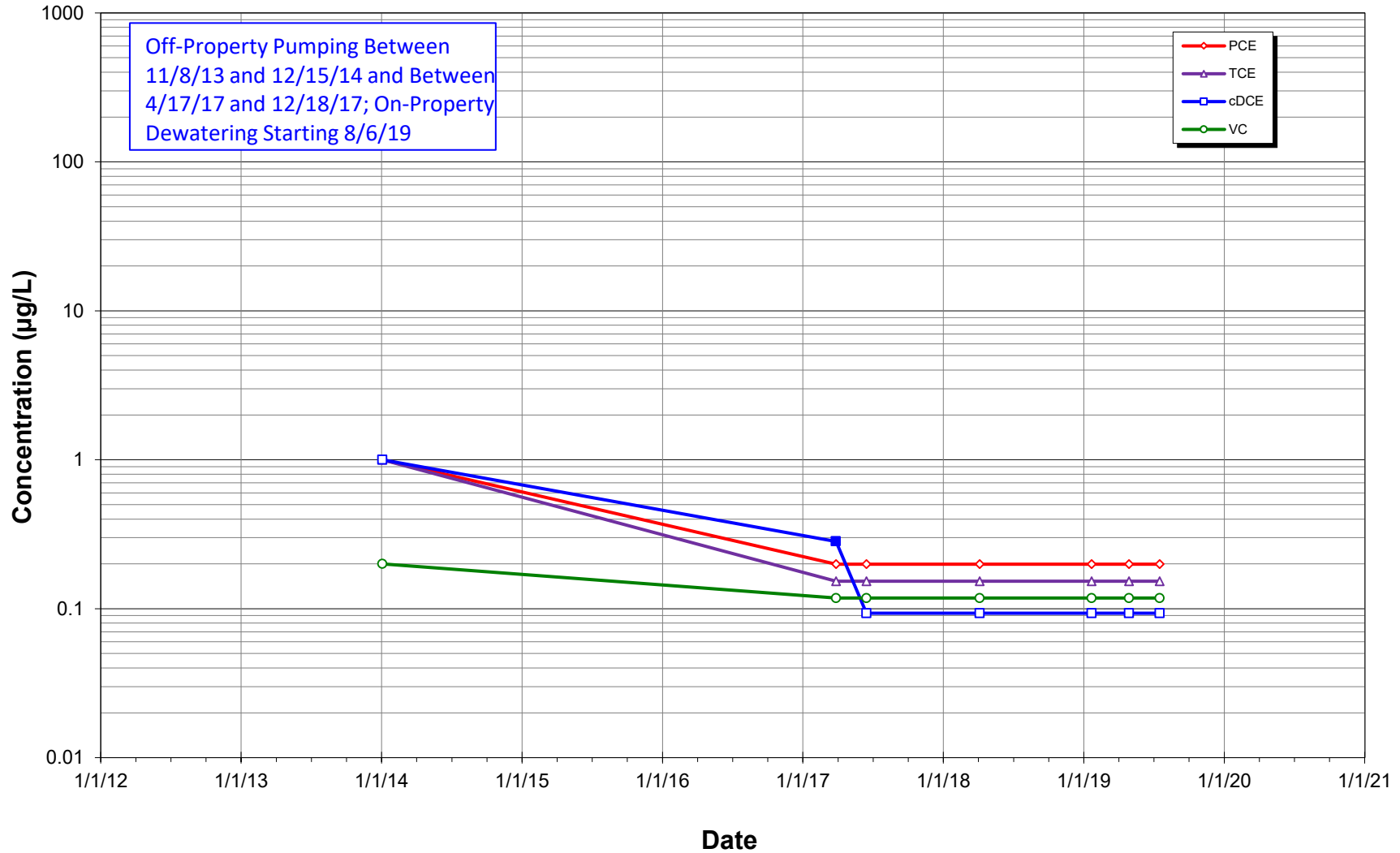


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



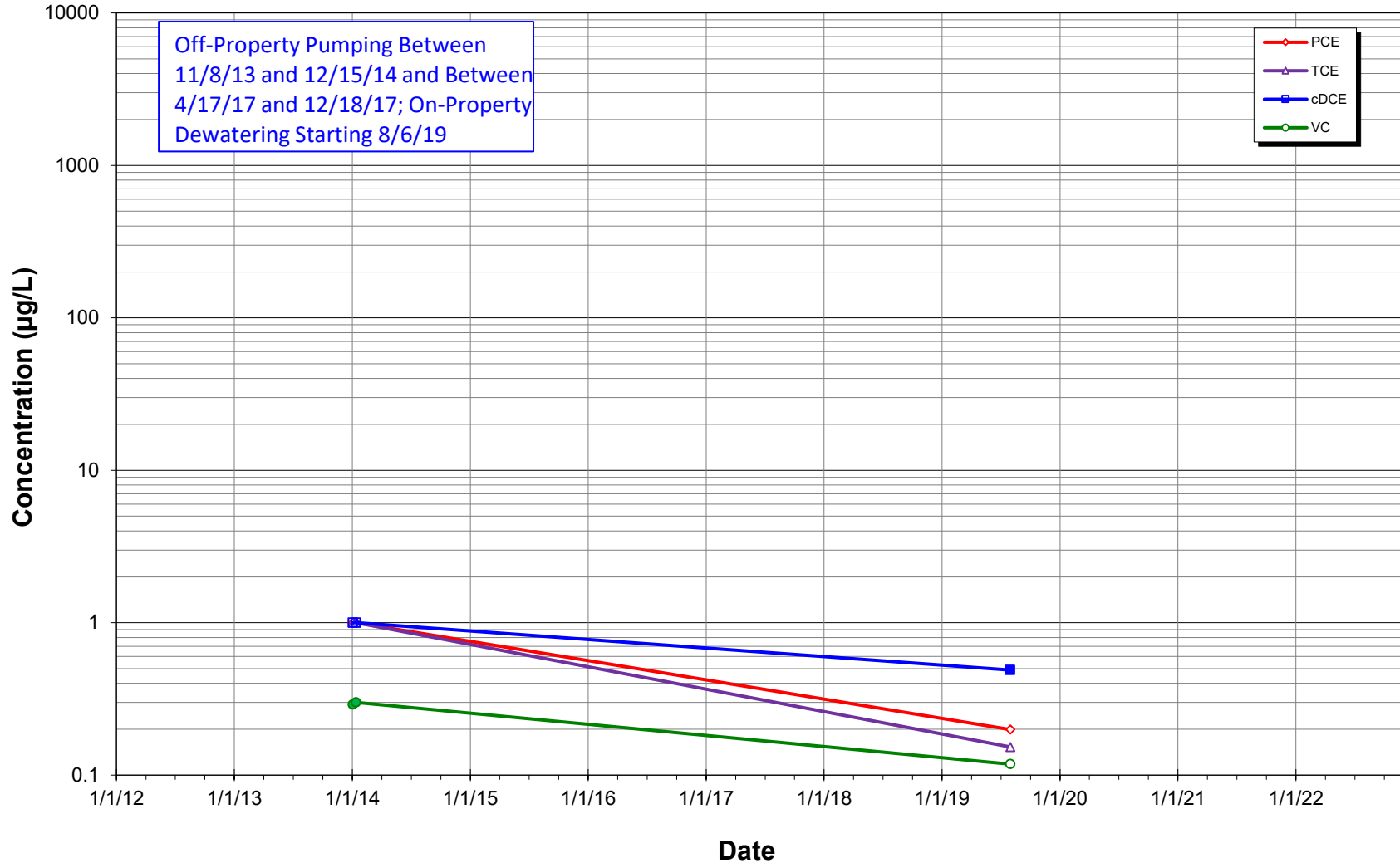
**Concentration vs Time  
MW126 (-54.1 to -64.1 feet NAVD), Alley  
American Linen Supply Co–Dexter Ave Site**



Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

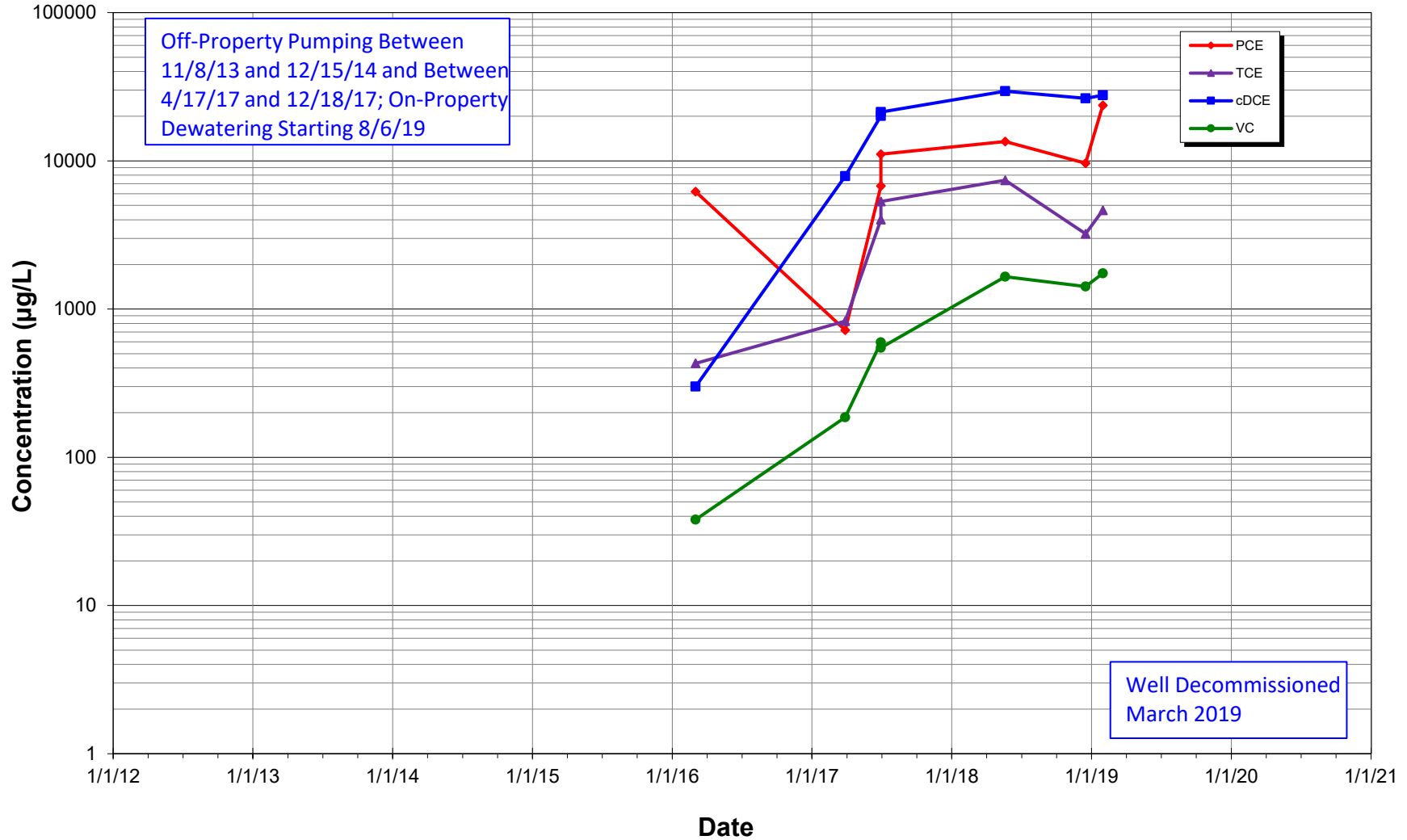
**Concentration vs Time**  
**MW127 (-1.0 to -11.0 feet NAVD), 8th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

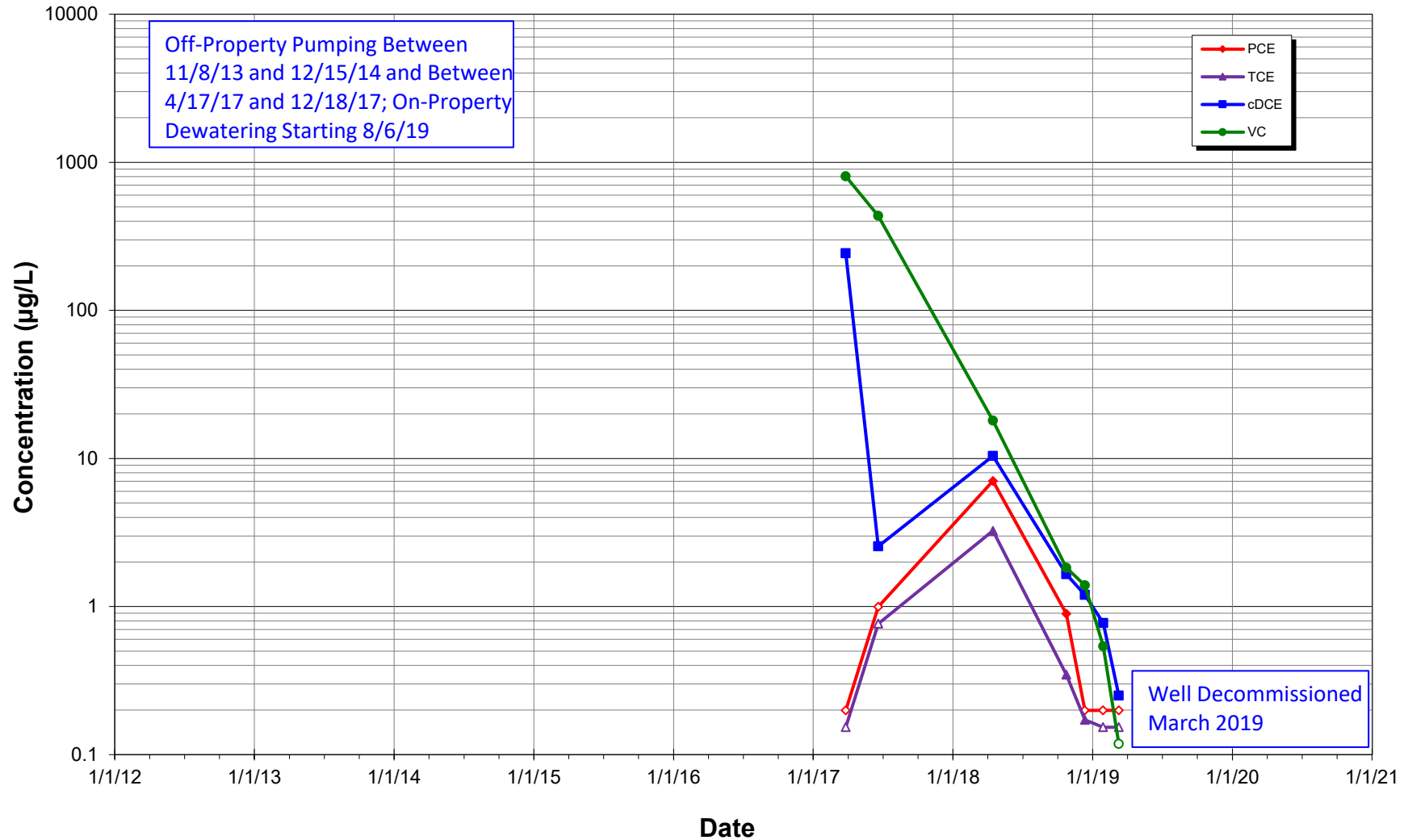
**Concentration vs Time  
MW130 (-30.9 to -40.9 feet NAVD), Property  
American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

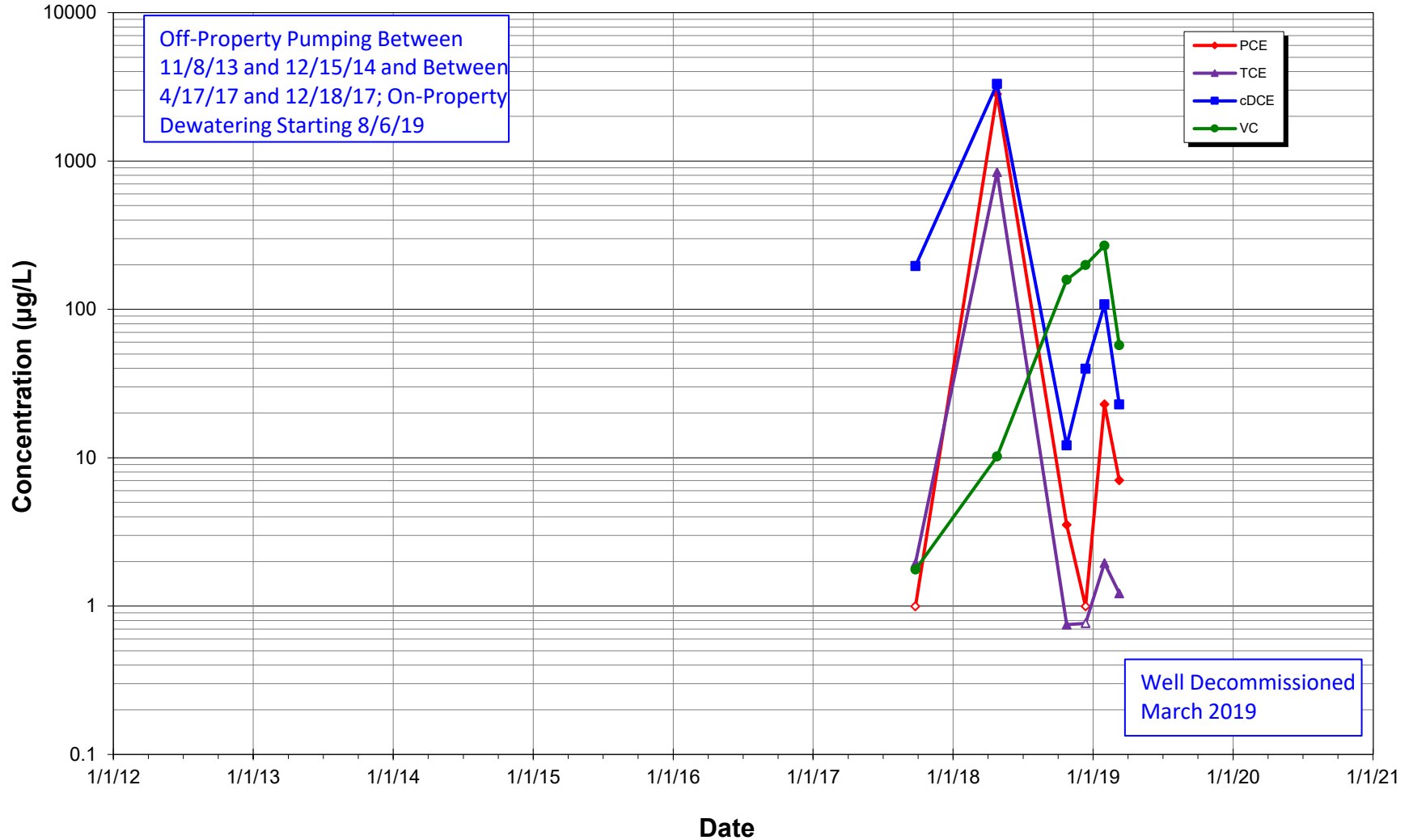
**Concentration vs Time  
MW131 (-4.2 to -14.2 feet NAVD), Property  
American Linen Supply Co-Dexter Ave Site**



Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

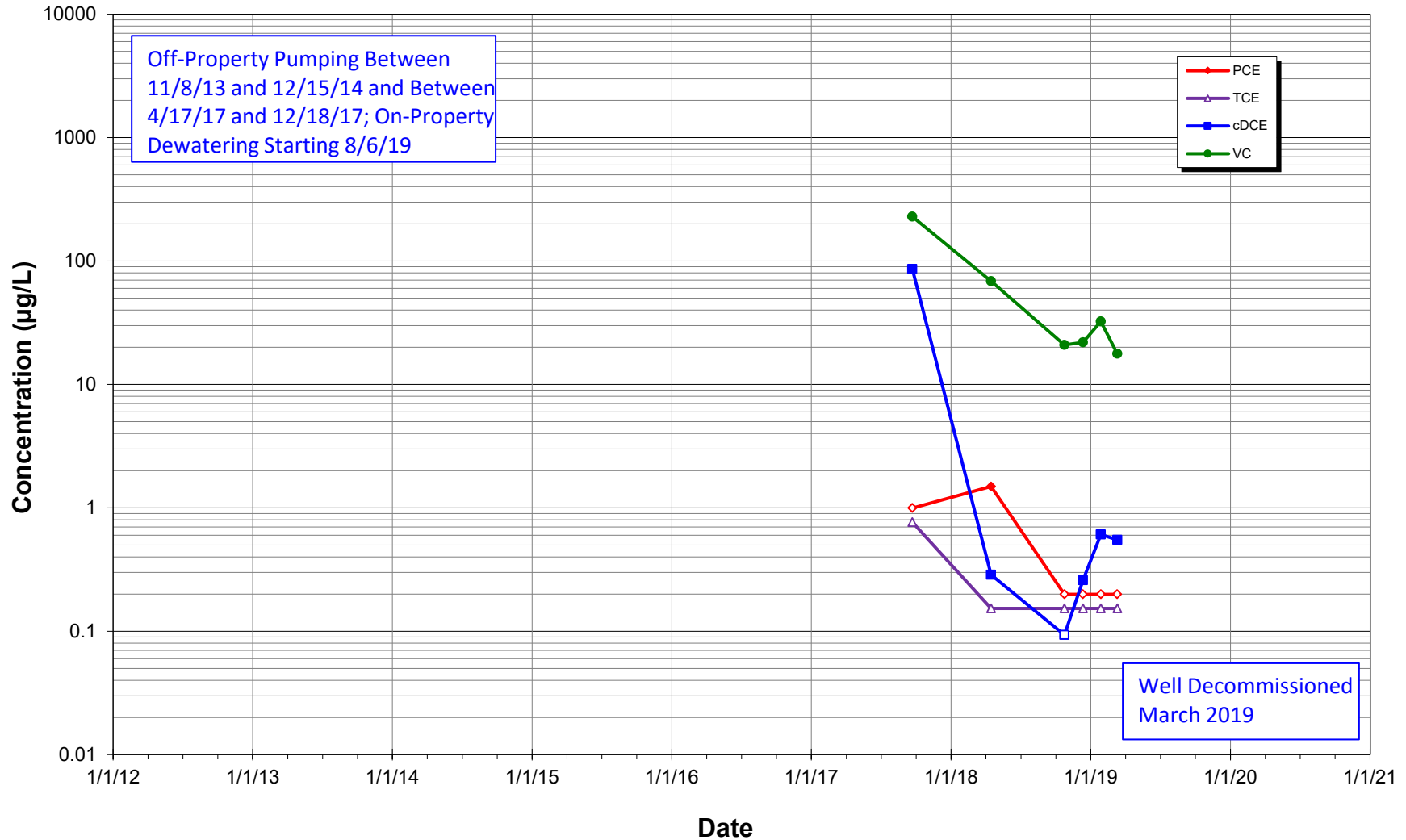
**Concentration vs Time**  
**MW-132 (-29.9 to -39.9 feet NAVD), Property**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

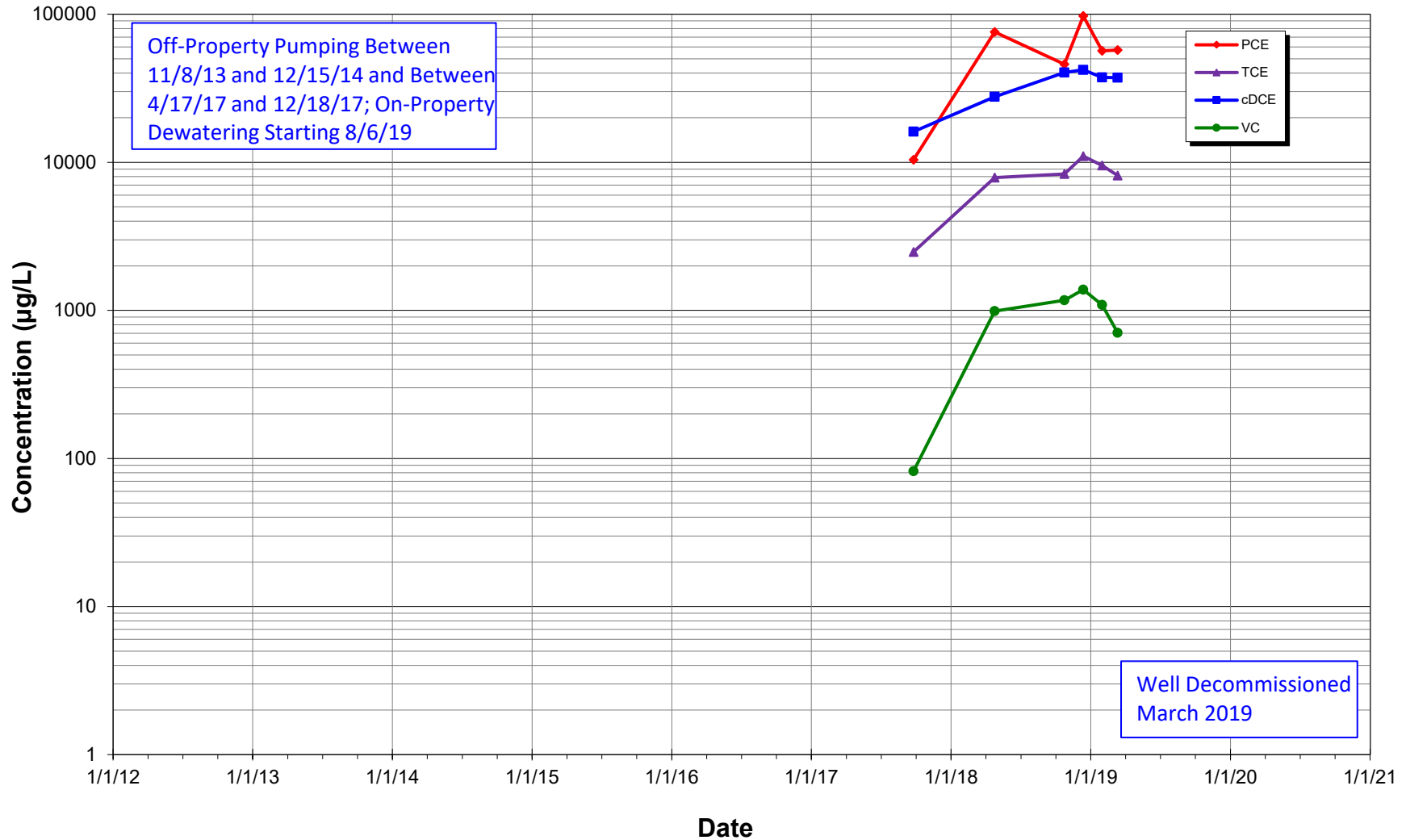
**Concentration vs Time**  
**MW-134 (-38.6 to -48.6 feet NAVD), Property**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

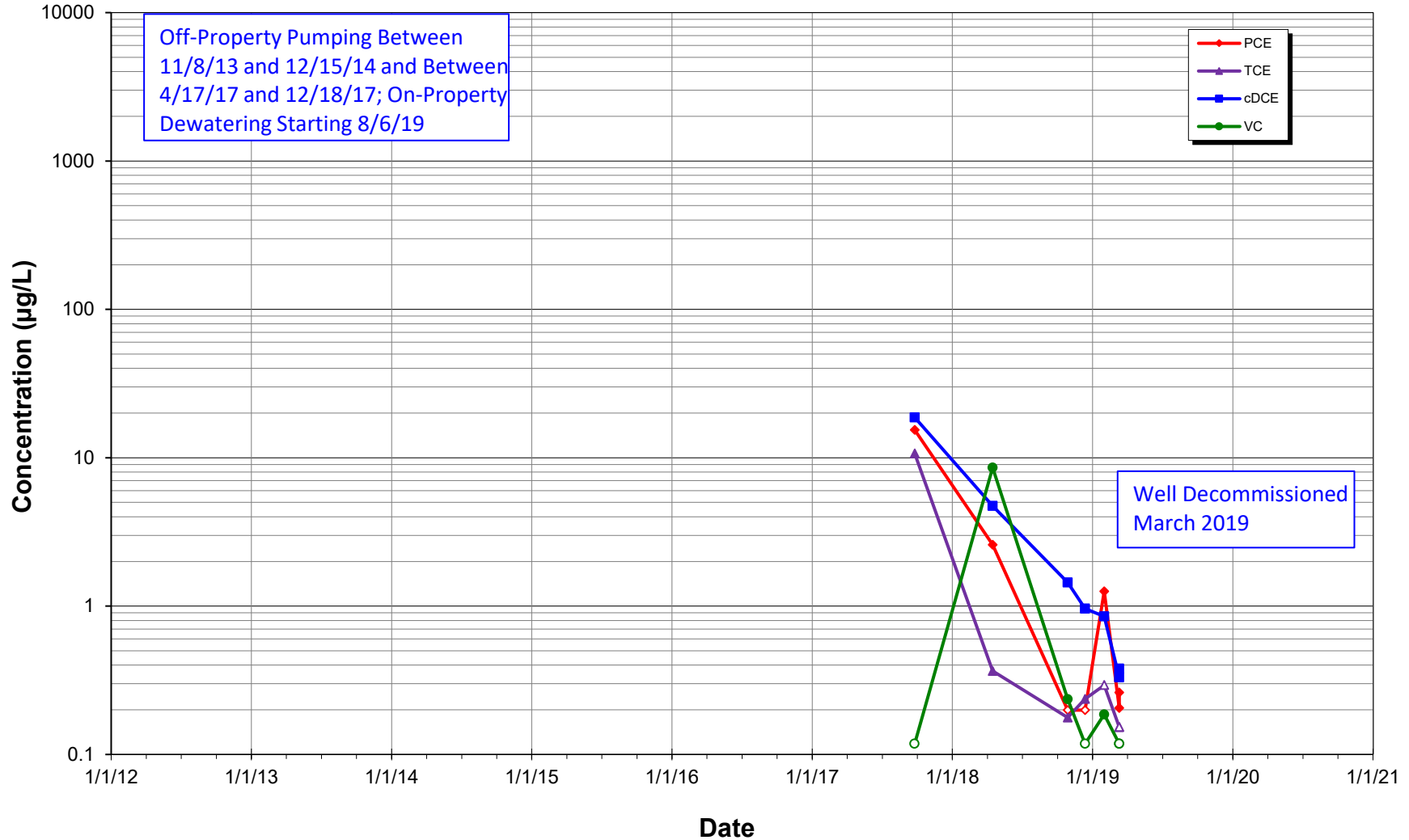
**Concentration vs Time**  
**MW-135 (-30.9 to -40.9 feet NAVD), Property**  
**American Linen Supply Co–Dexter Ave Site**



Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**MW-136 (-32.7 to -42.7 feet NAVD), Property**  
**American Linen Supply Co-Dexter Ave Site**

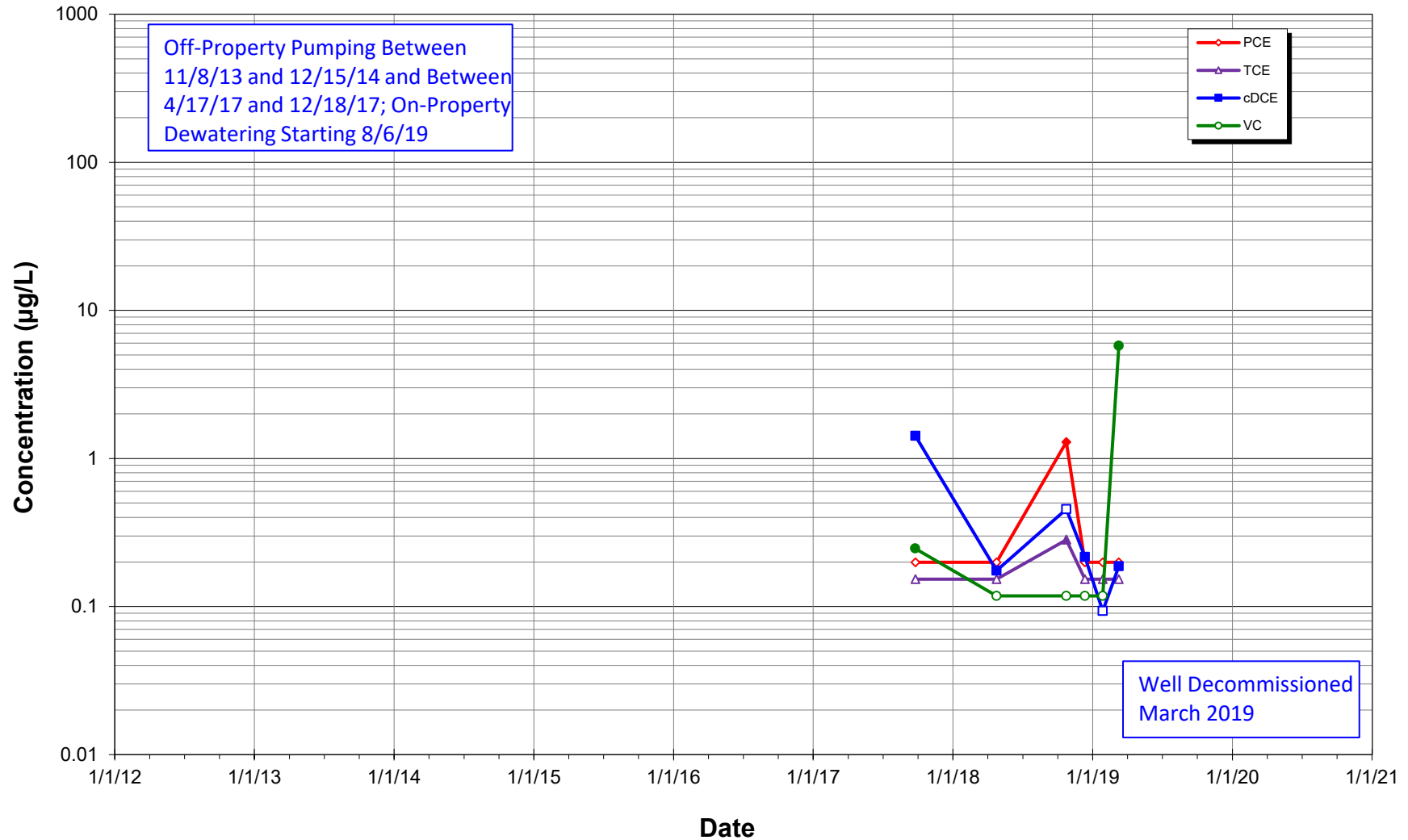


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



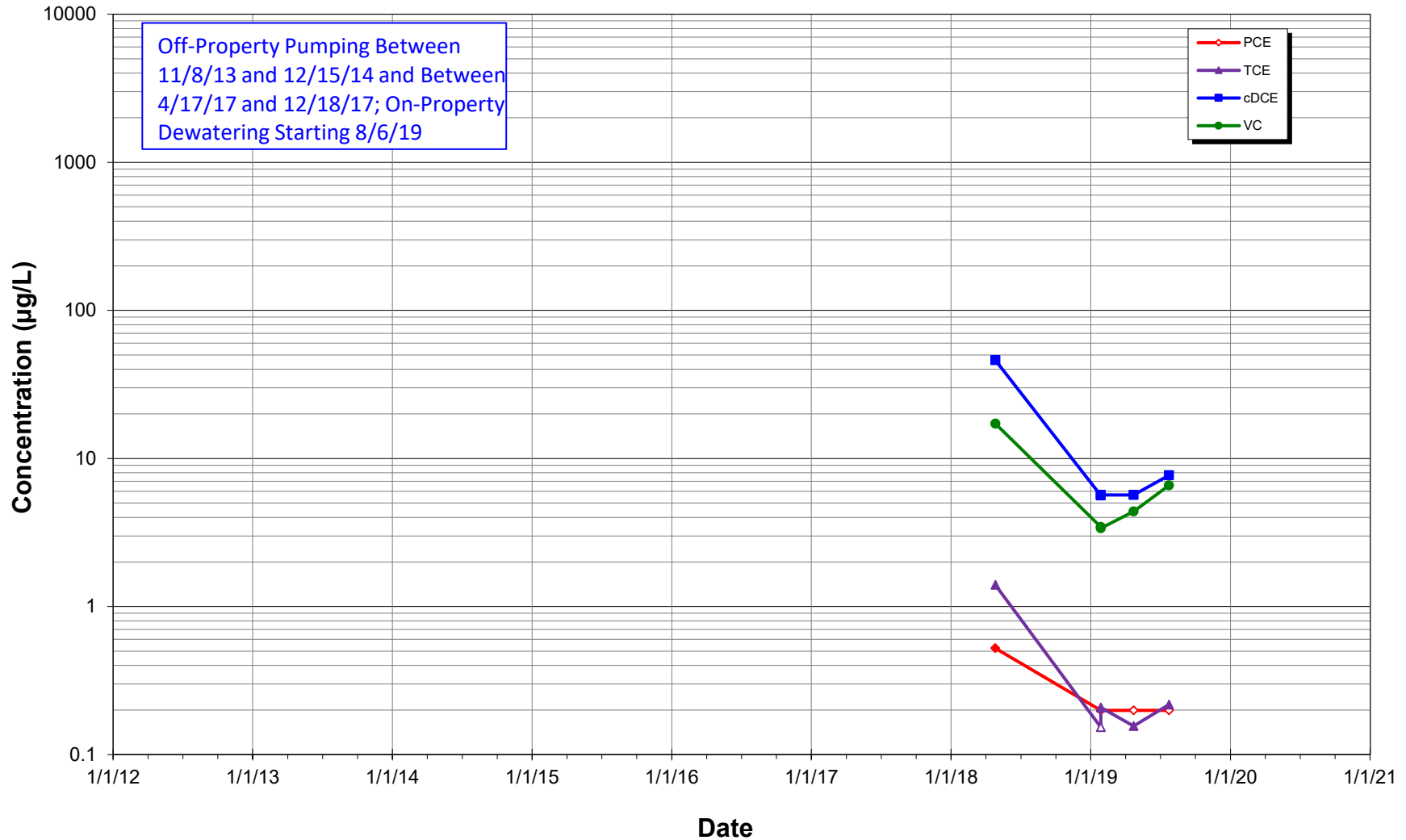
**Concentration vs Time**  
**MW-139 (-30.2 to -40.2 feet NAVD), Property**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

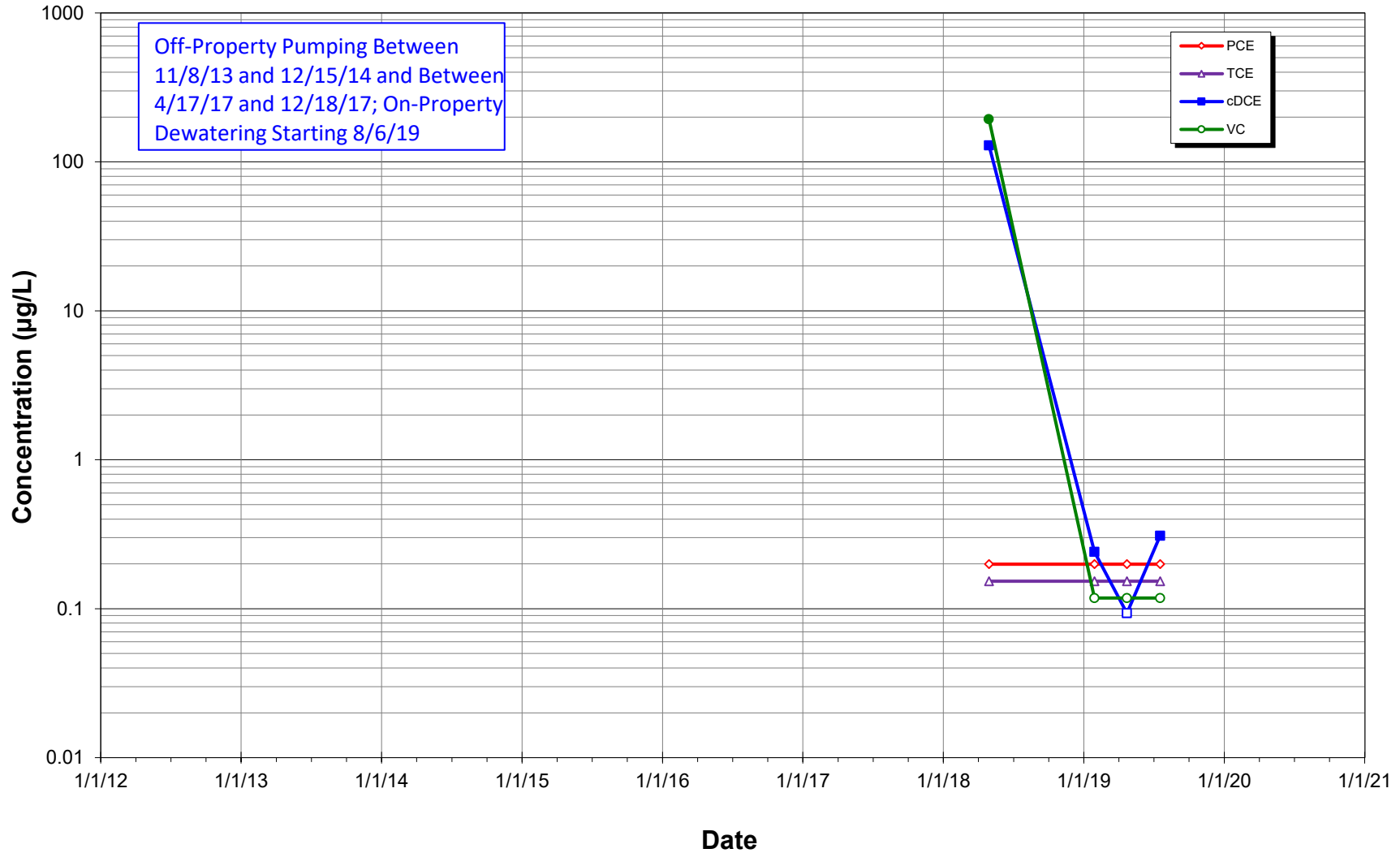
**Concentration vs Time**  
**MW-142 (2.4 to -7.6 feet NAVD), 8th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

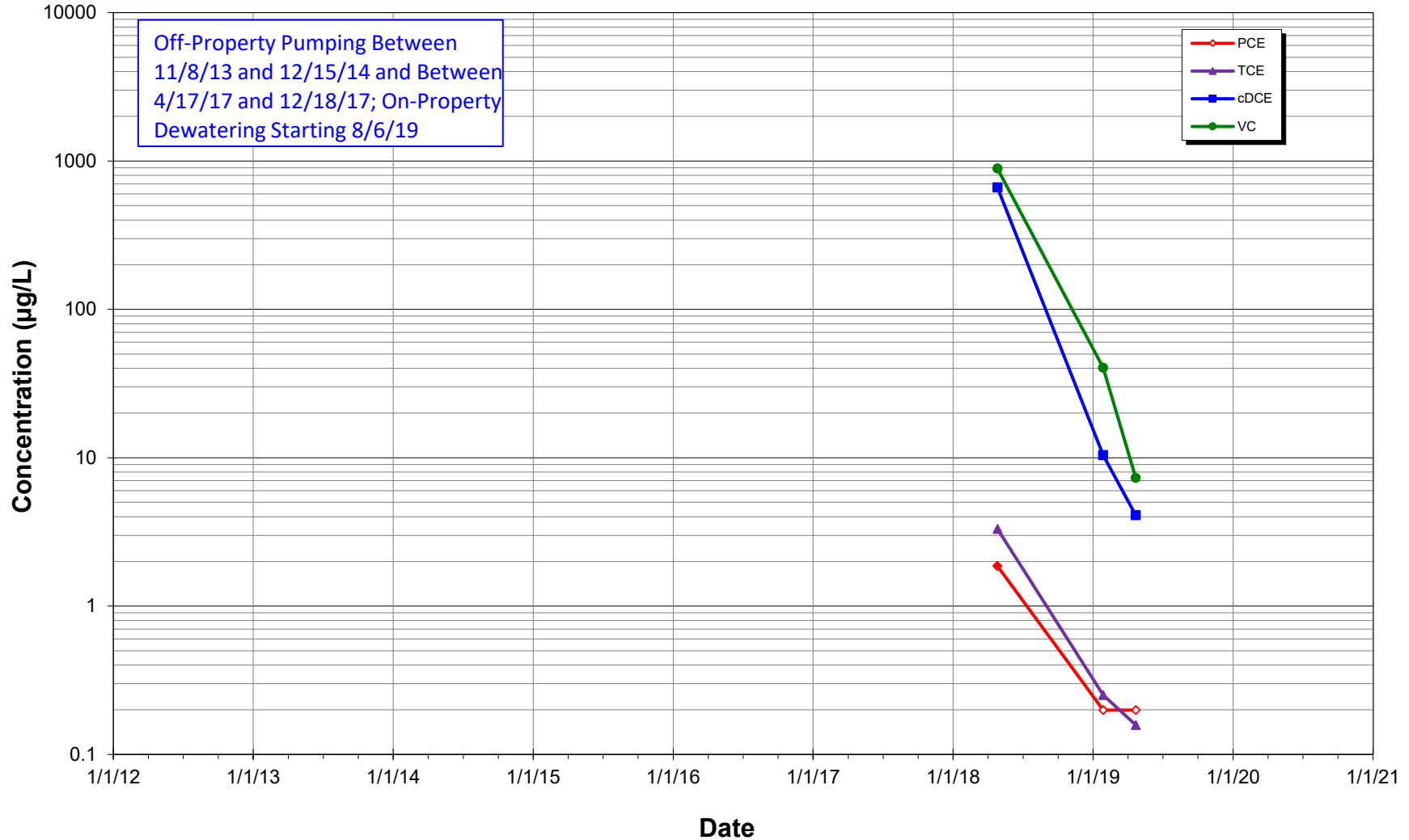
**Concentration vs Time**  
**MW-143 (-27.7 to -37.6 feet NAVD), 8th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

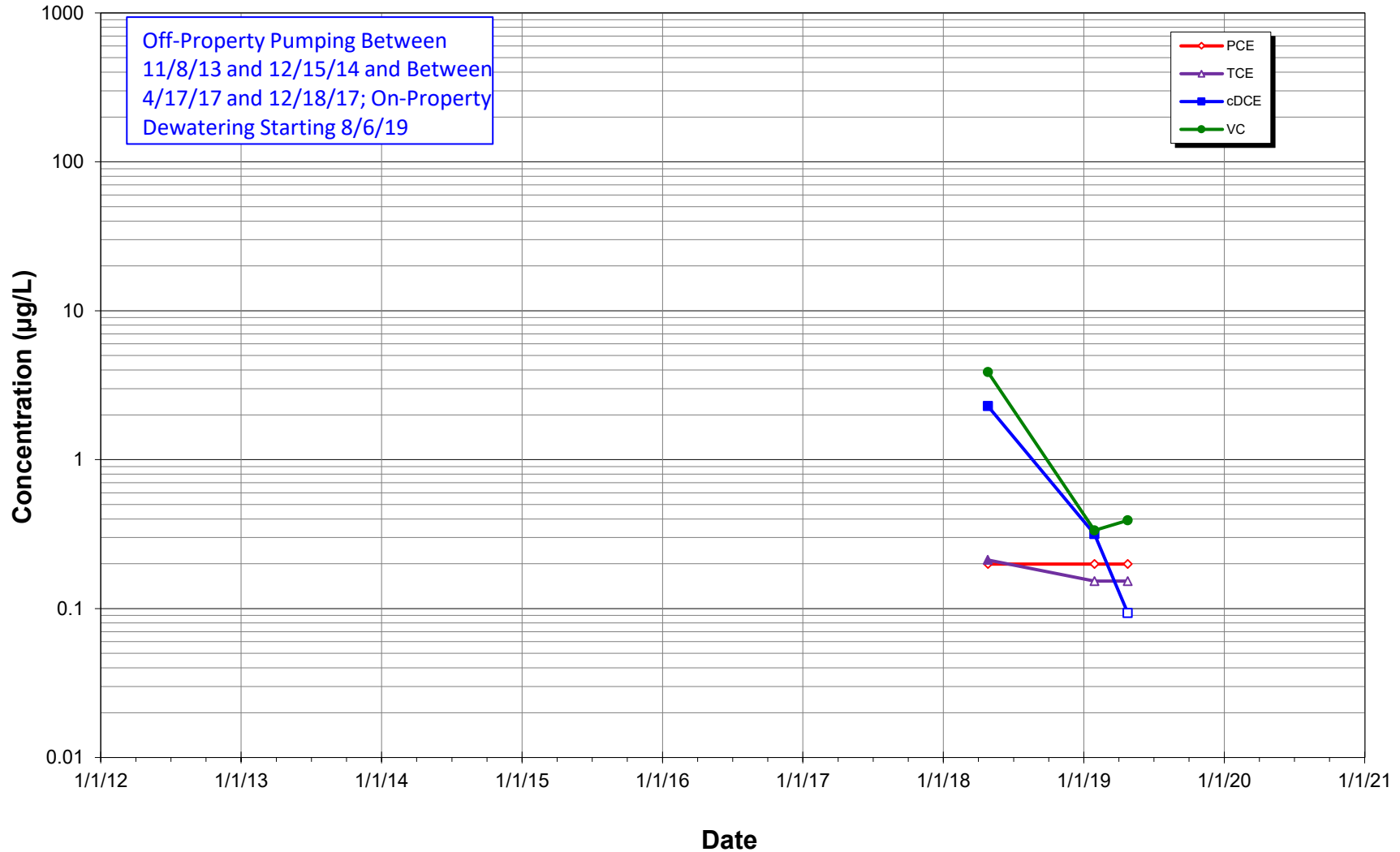
**Concentration vs Time**  
**MW-144 (3.9 to -6.1 feet NAVD), 8th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

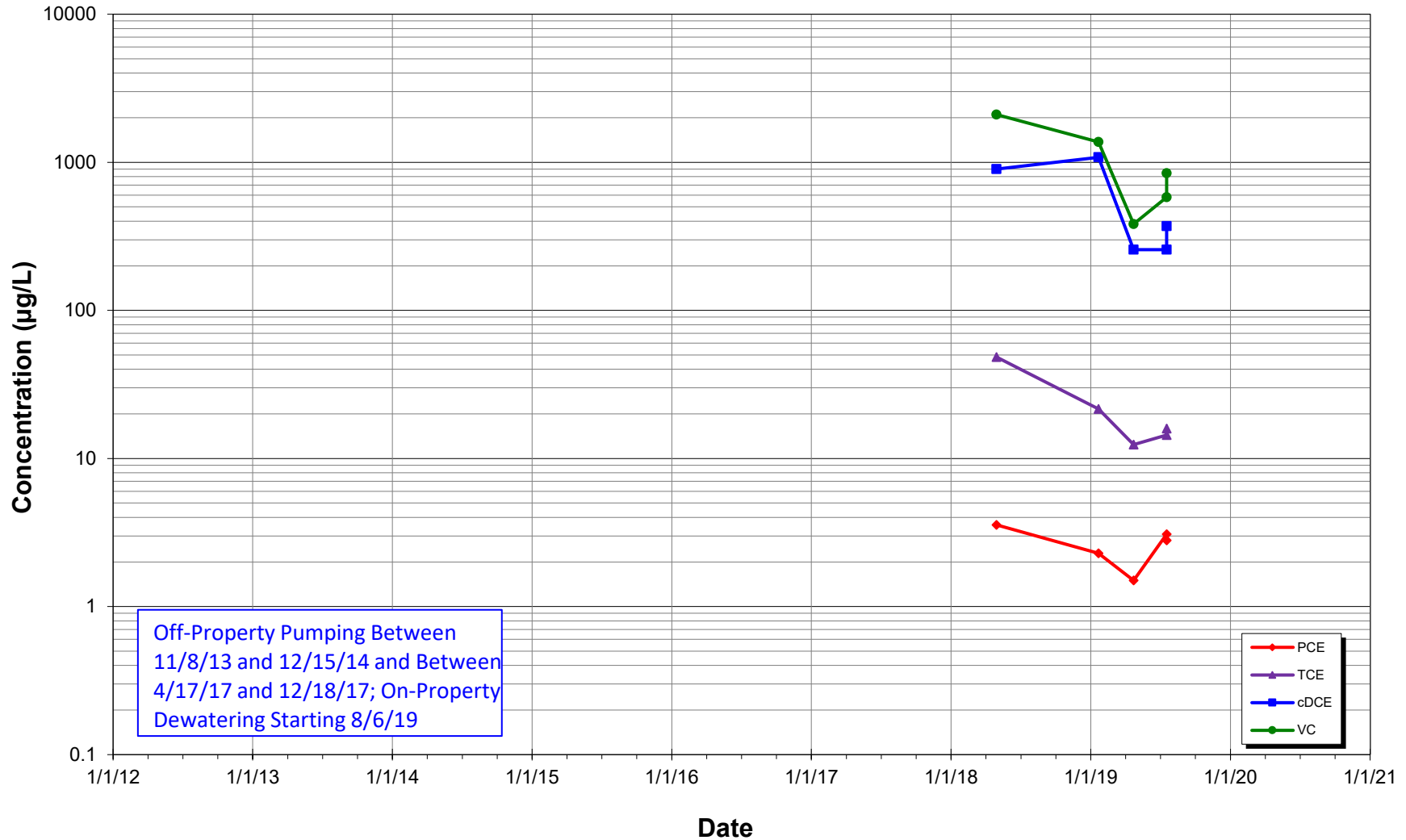
**Concentration vs Time**  
**MW-145 (-26.1 to -36.1 feet NAVD), 8th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**MW-146 (12.9 to 2.9 feet NAVD), Roy Street**  
**American Linen Supply Co-Dexter Ave Site**



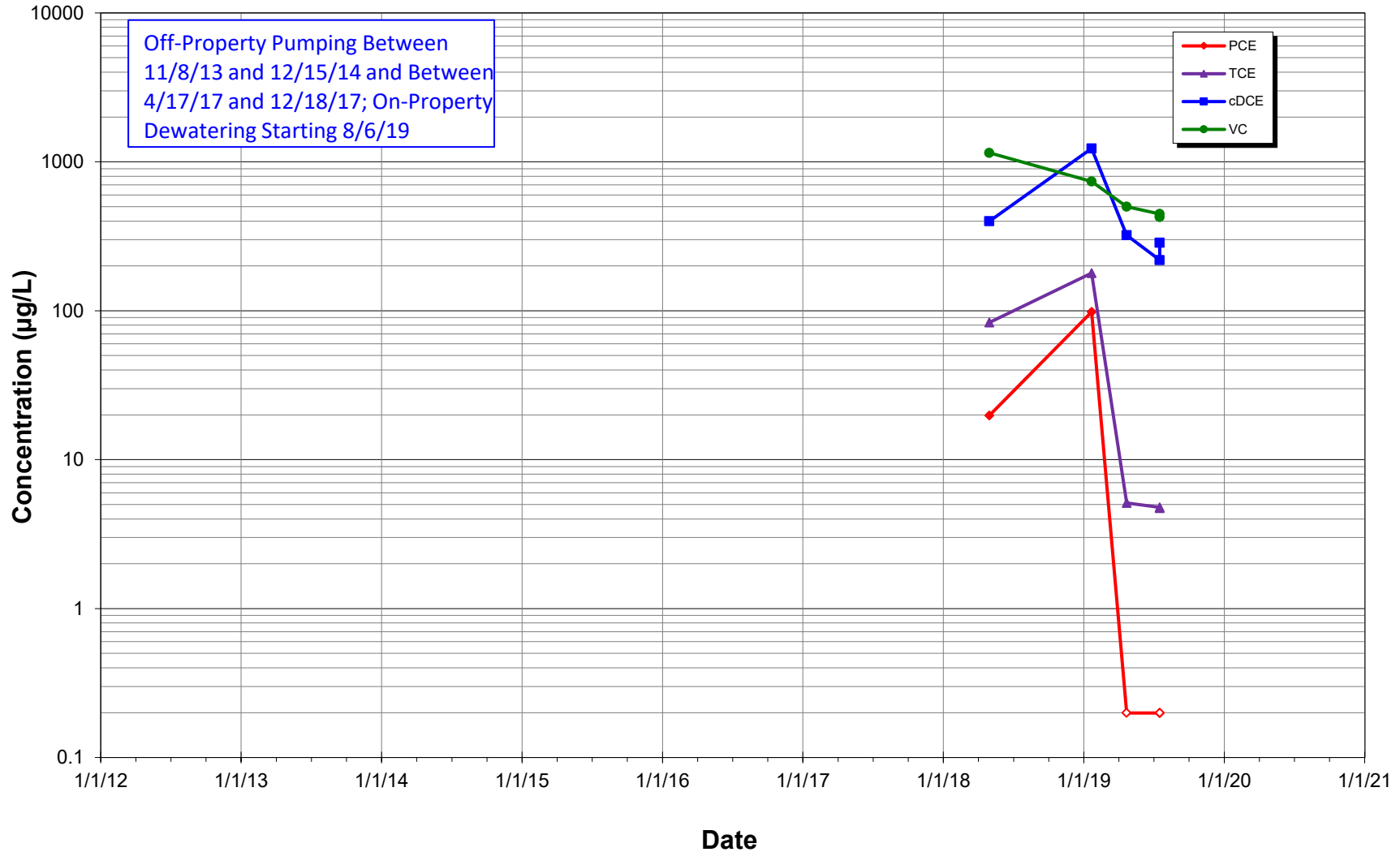
Off-Property Pumping Between 11/8/13 and 12/15/14 and Between 4/17/17 and 12/18/17; On-Property Dewatering Starting 8/6/19

Legend:  
 PCE (Red diamond)  
 TCE (Purple triangle)  
 cDCE (Blue square)  
 VC (Green circle)

**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

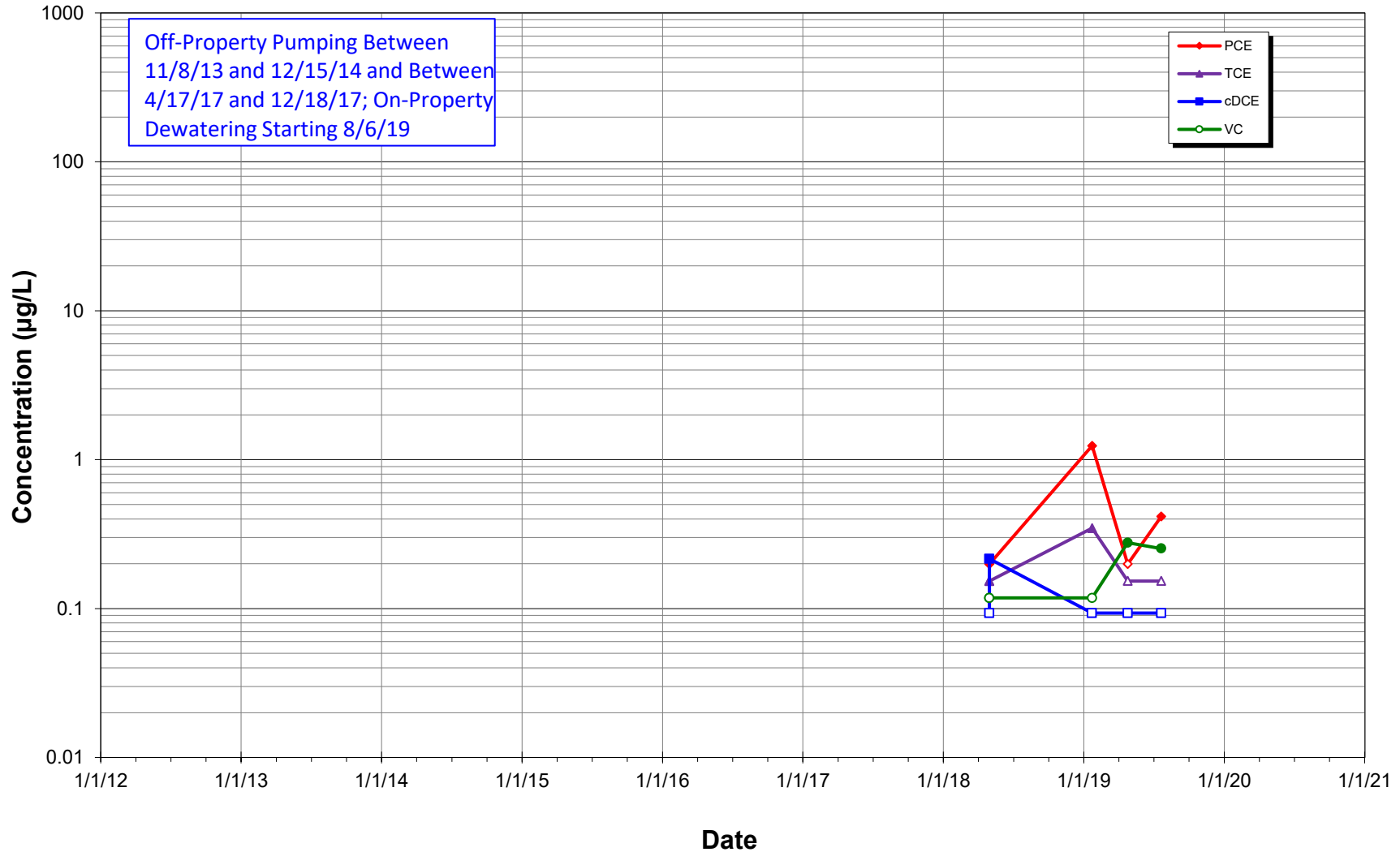
**Concentration vs Time**  
**MW-147 (-17.6 to -27.6 feet NAVD), Roy Street**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**MW-148 (-25.7 to -35.7 feet NAVD), Roy Street**  
**American Linen Supply Co–Dexter Ave Site**

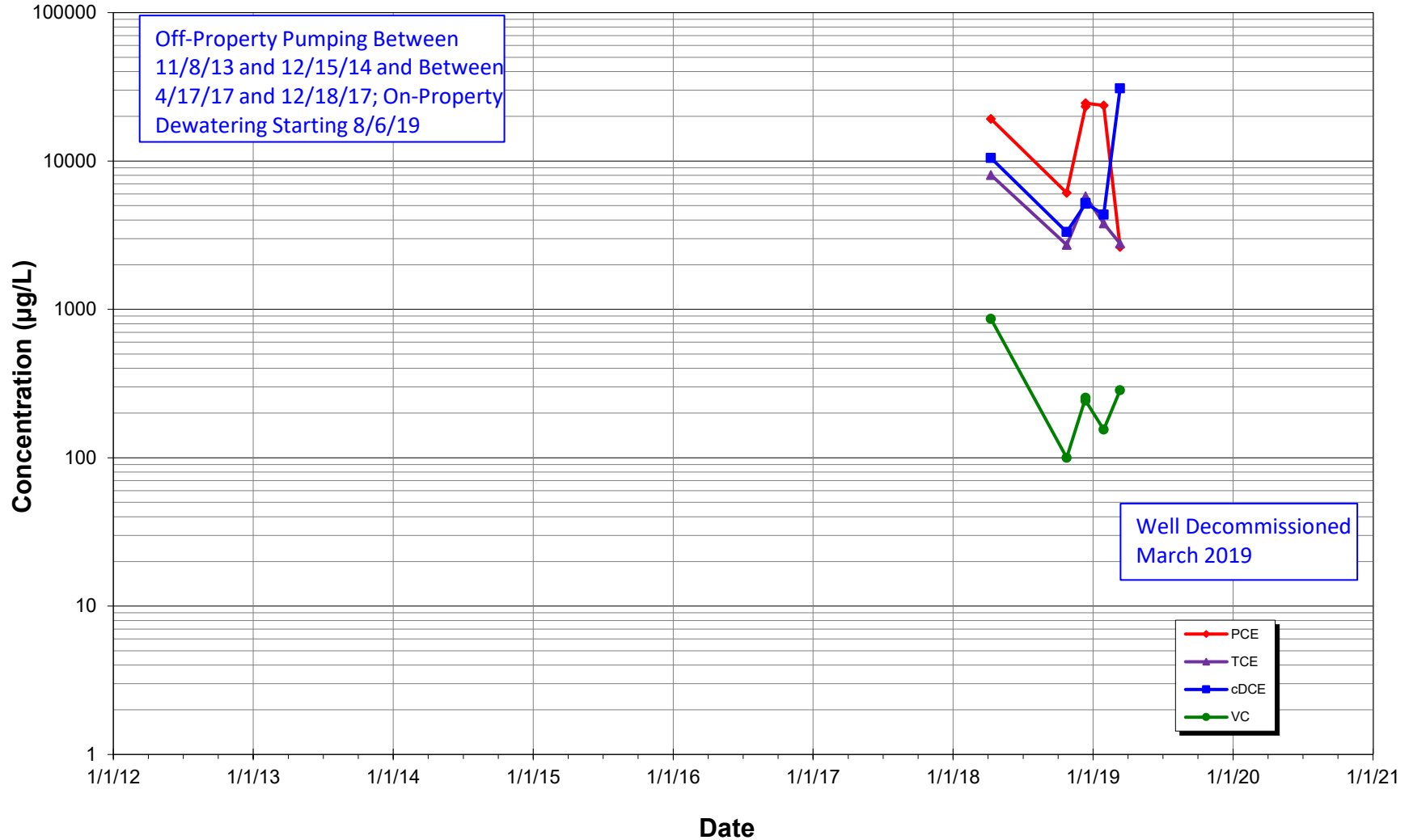


Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



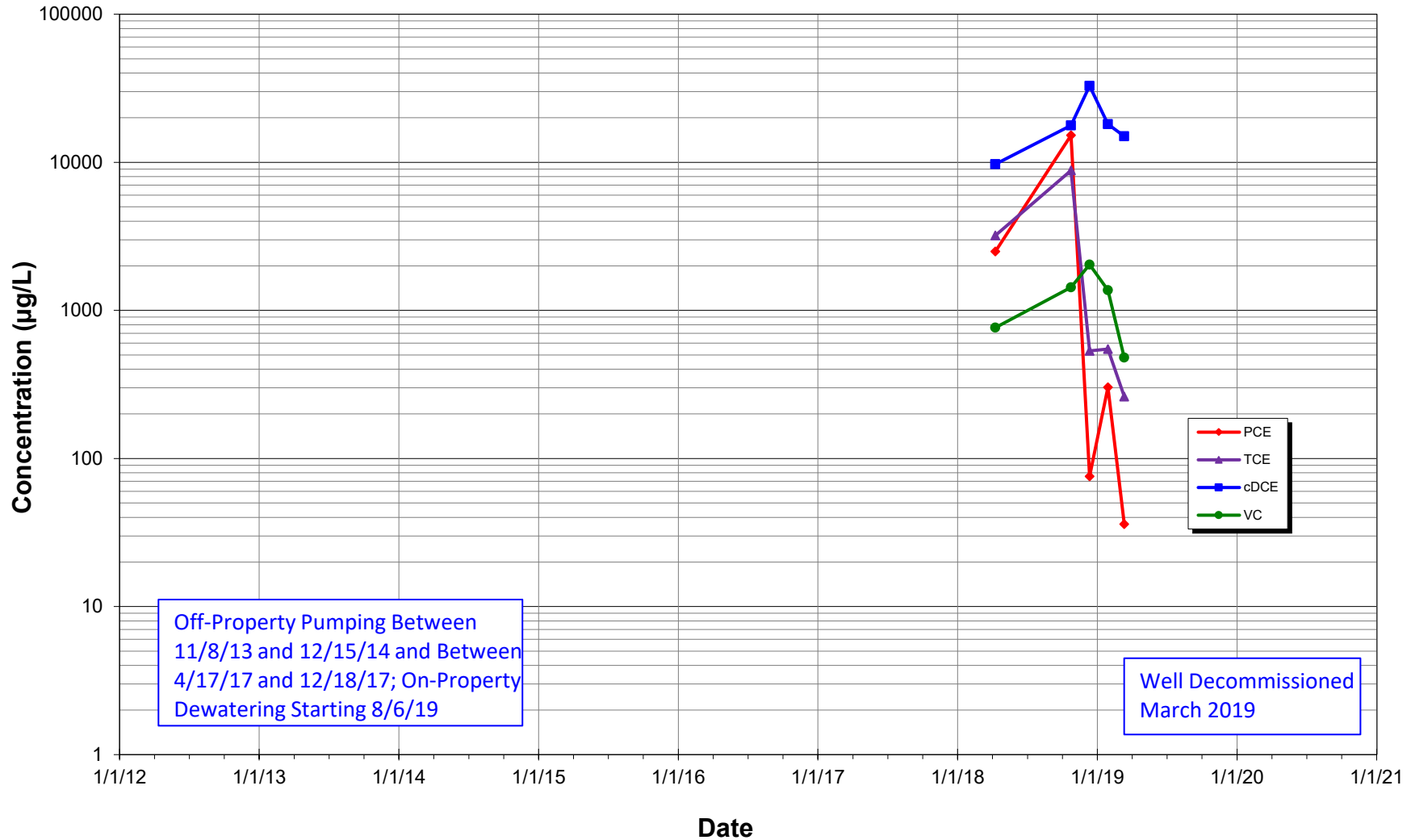
**Concentration vs Time  
MW-149 (0.7 to -9.3 feet NAVD), Property  
American Linen Supply Co-Dexter Ave Site**



**Notes:**

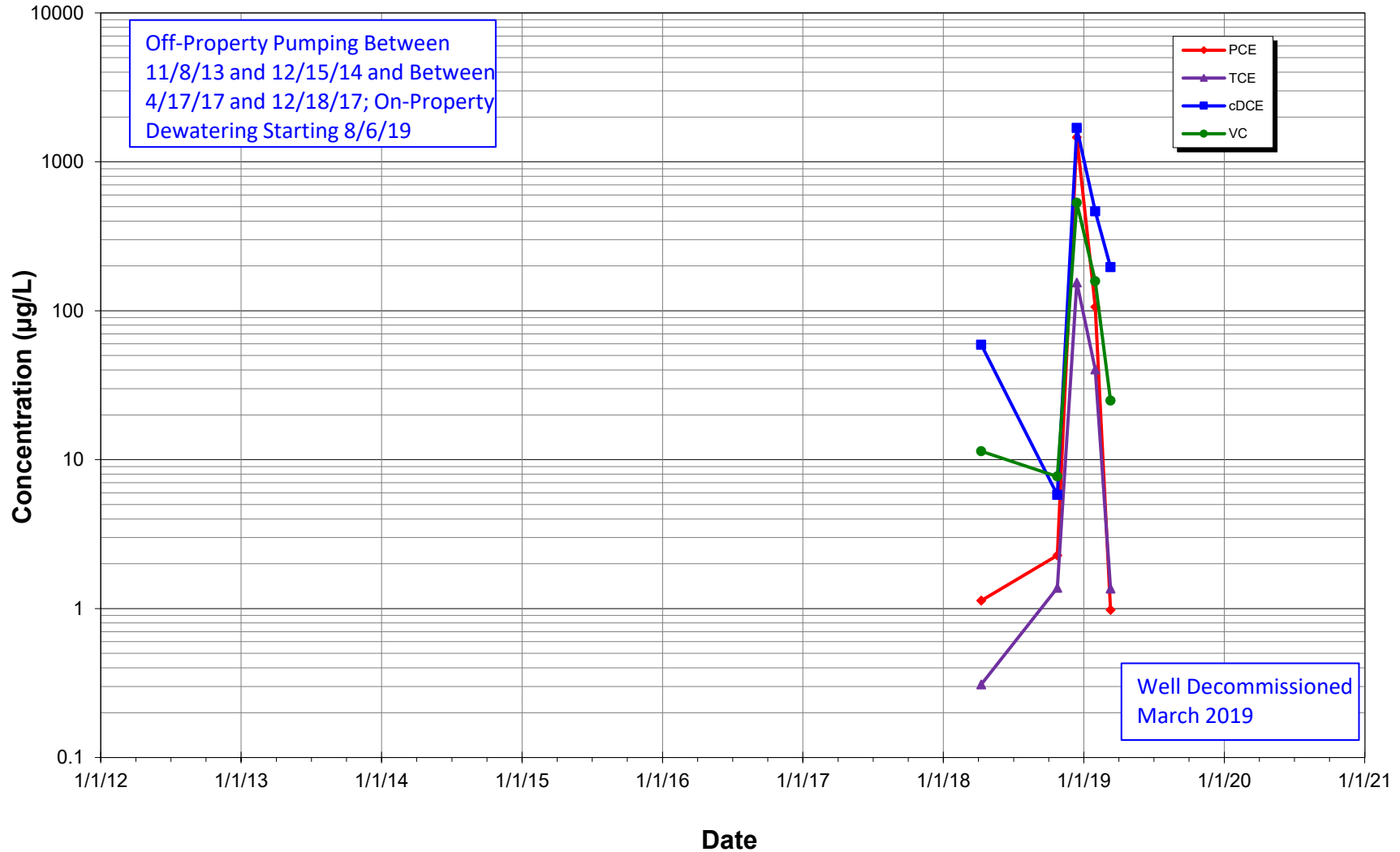
- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**MW-150 (-13.3 to -23.3 feet NAVD), Property**  
**American Linen Supply Co–Dexter Ave Site**



- Notes:**
- 1) All results detected below the laboratory MDLs are shown as hollow data points .
  - 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

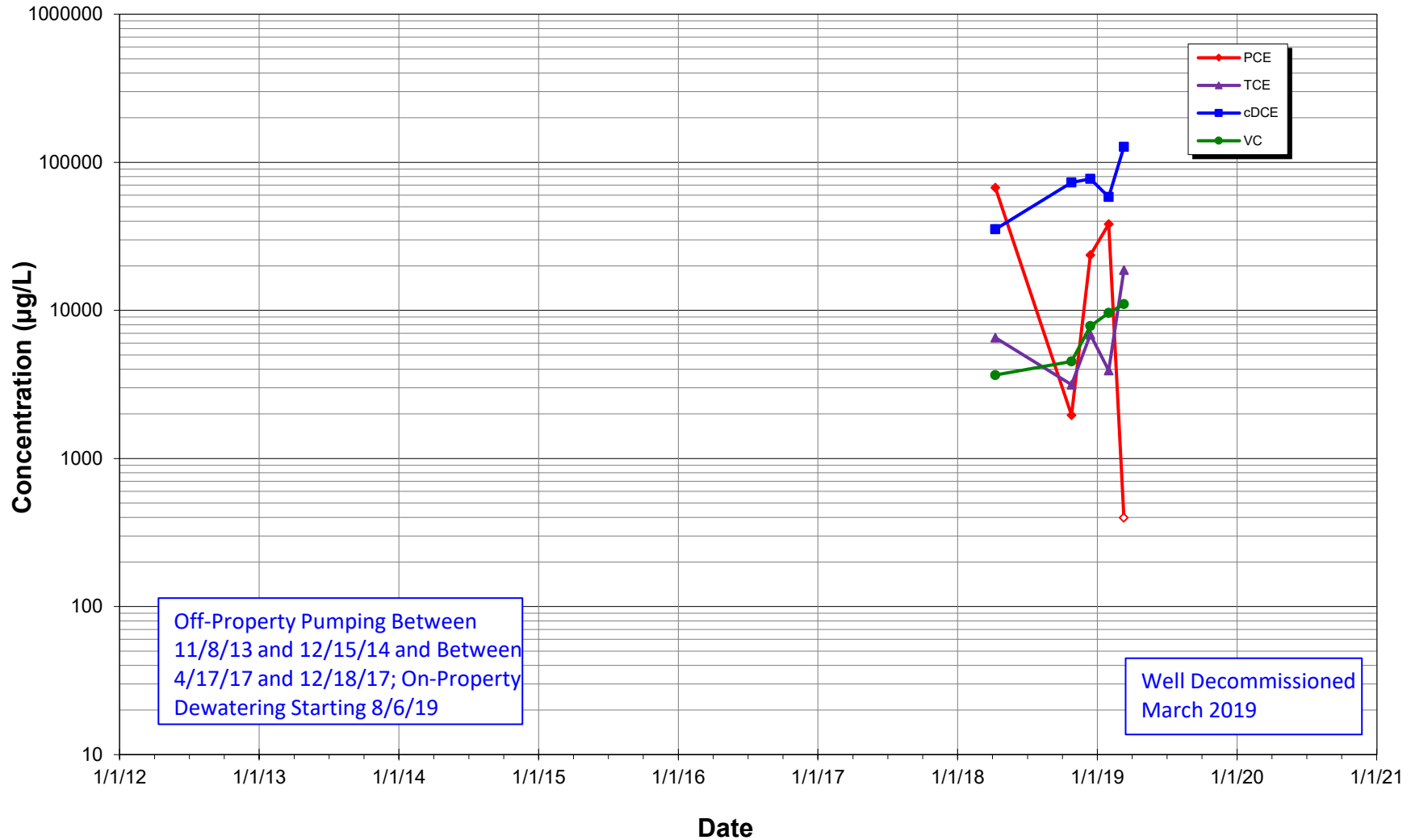
**Concentration vs Time**  
**MW-151(4.9 to -5.1 feet NAVD), Property**  
**American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

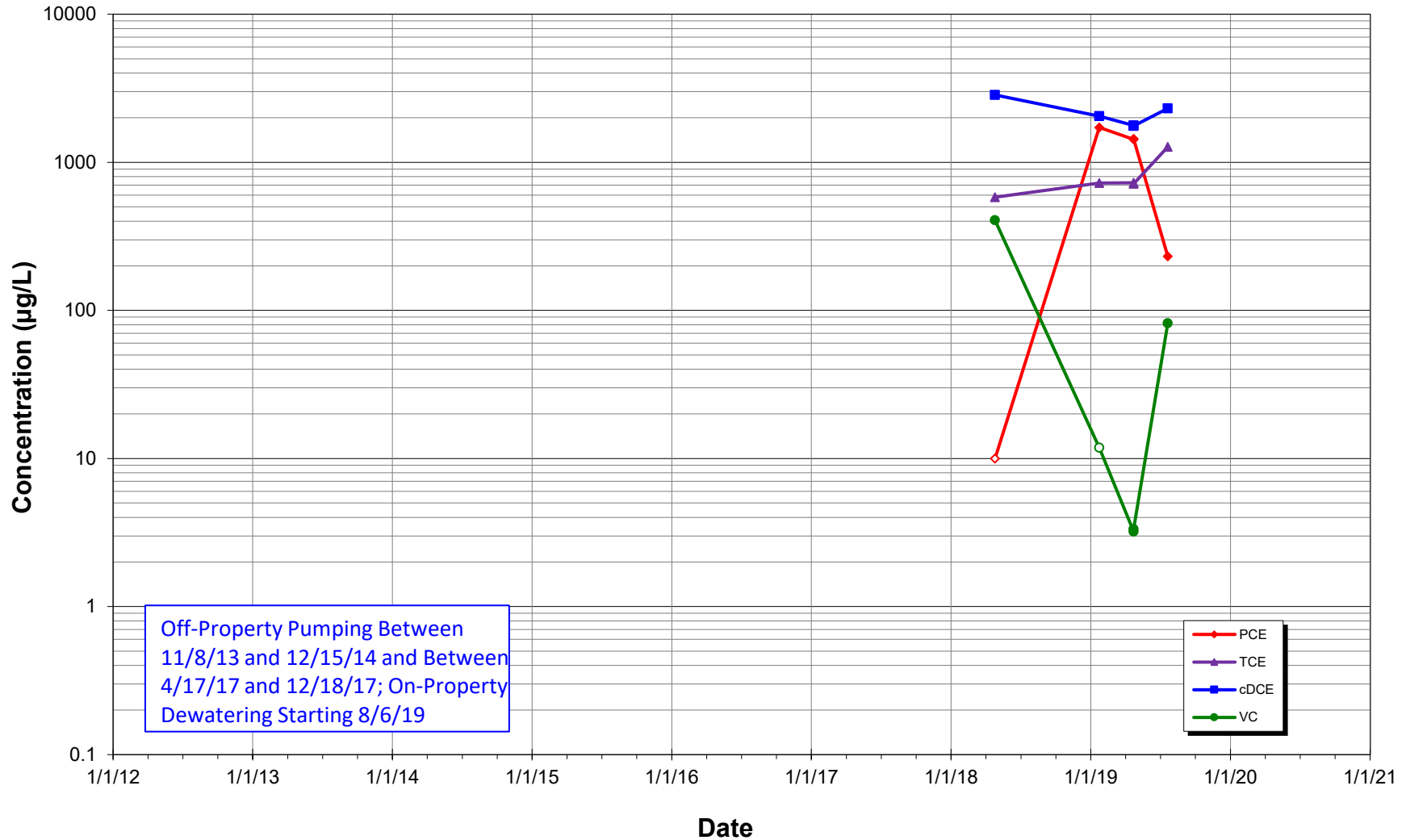
**Concentration vs Time**  
**MW-152 (-10.2 to -20.2 feet NAVD), Property**  
**American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**MW-156 (2.0 to -8.0 feet NAVD), 8th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**

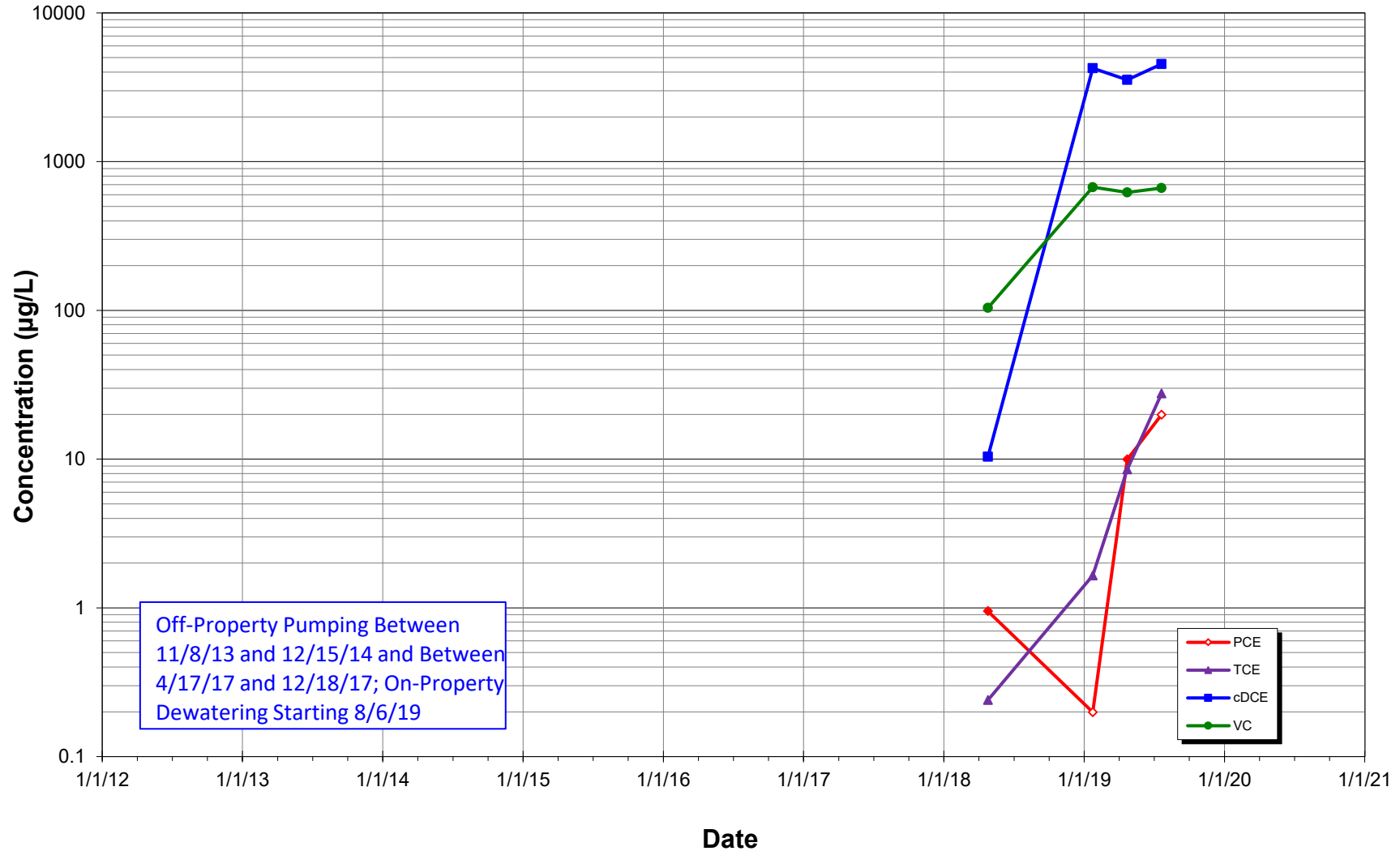


Off-Property Pumping Between 11/8/13 and 12/15/14 and Between 4/17/17 and 12/18/17; On-Property Dewatering Starting 8/6/19

- PCE
- ▲— TCE
- cDCE
- VC

- Notes:**
- 1) All results detected below the laboratory MDLs are shown as hollow data points .
  - 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

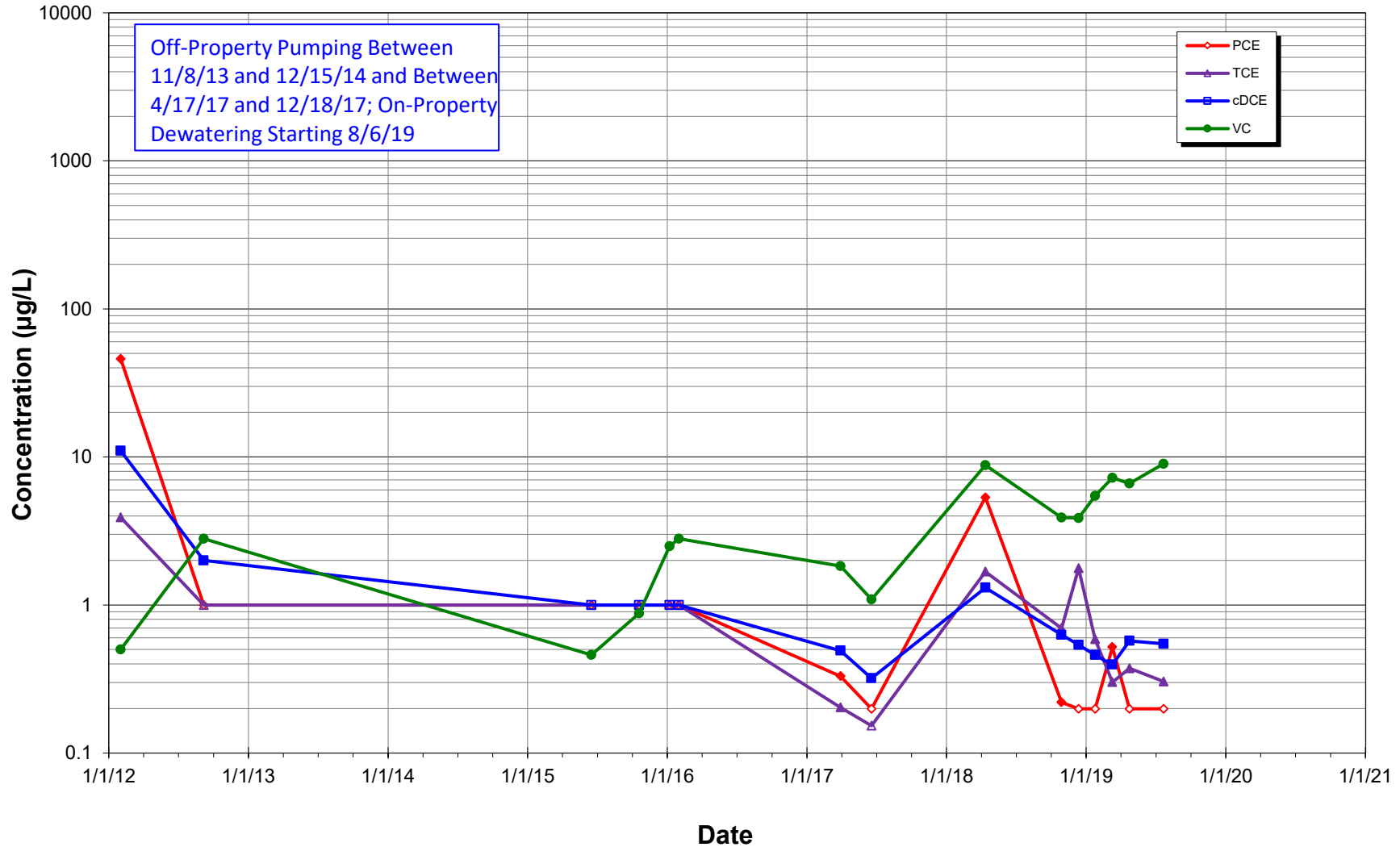
**Concentration vs Time**  
**MW157 (-28.3 to -38.2 feet NAVD), 8th Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

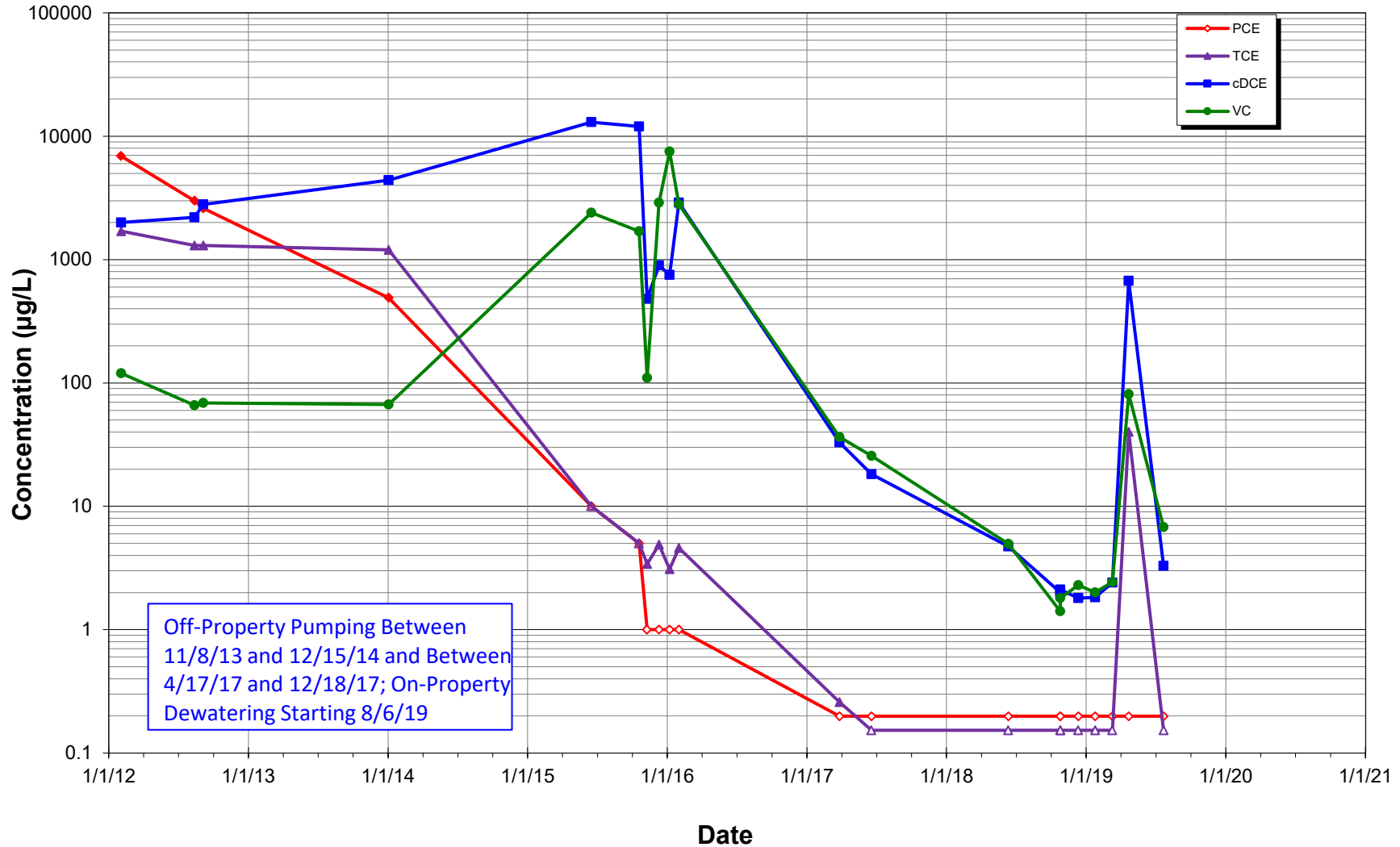
**Concentration vs Time**  
**W-MW-01 (-25.1 to -35.1 feet NAVD), 8th Avenue North**  
**American Linen Supply Co-Dexter Ave Site**



Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**W-MW-02 (-26.5 to -36.5 feet NAVD), 8th Avenue North**  
**American Linen Supply Co-Dexter Ave Site**



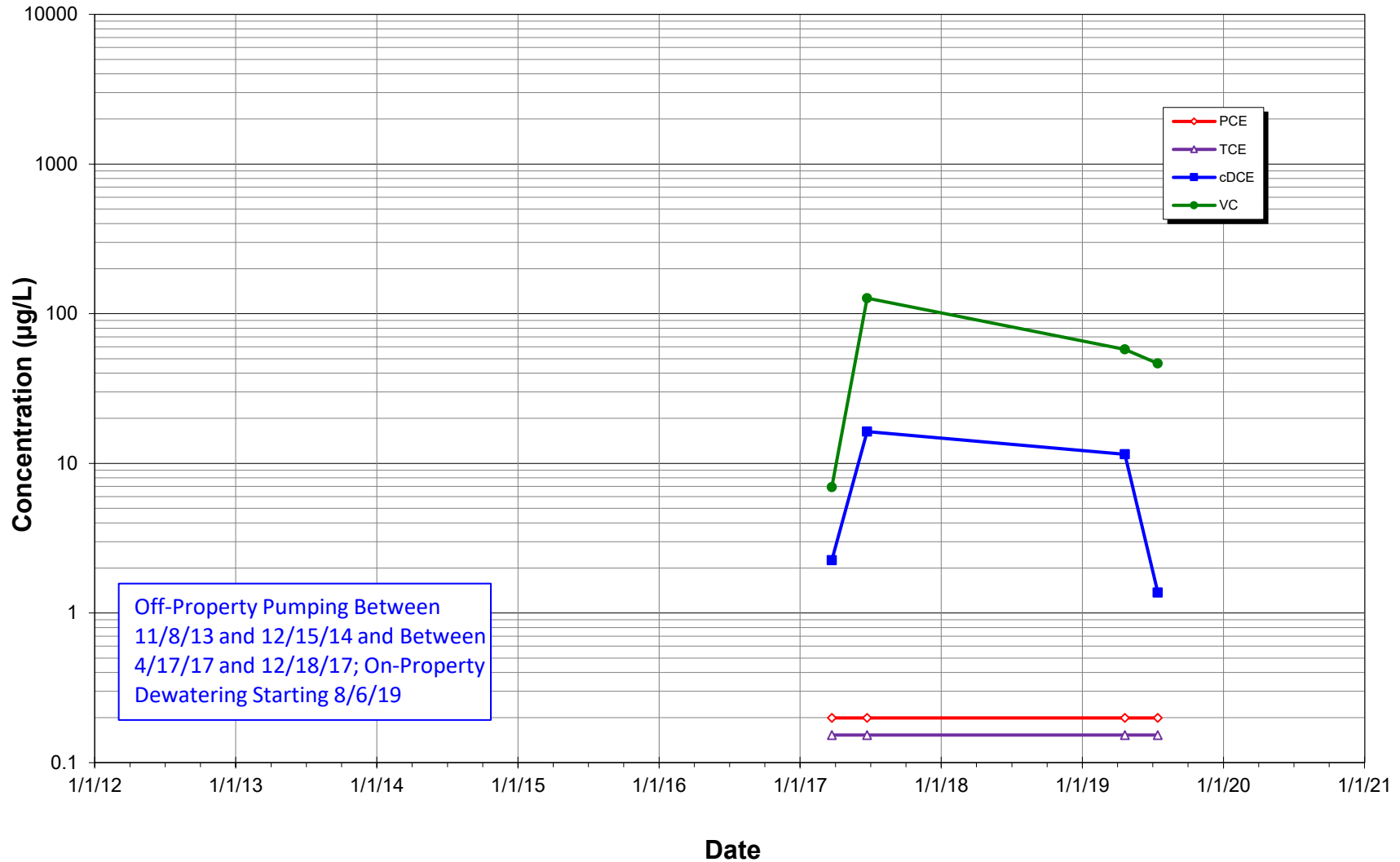
**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



**Attachment A**  
**Deep Well Time-Trend Plots**

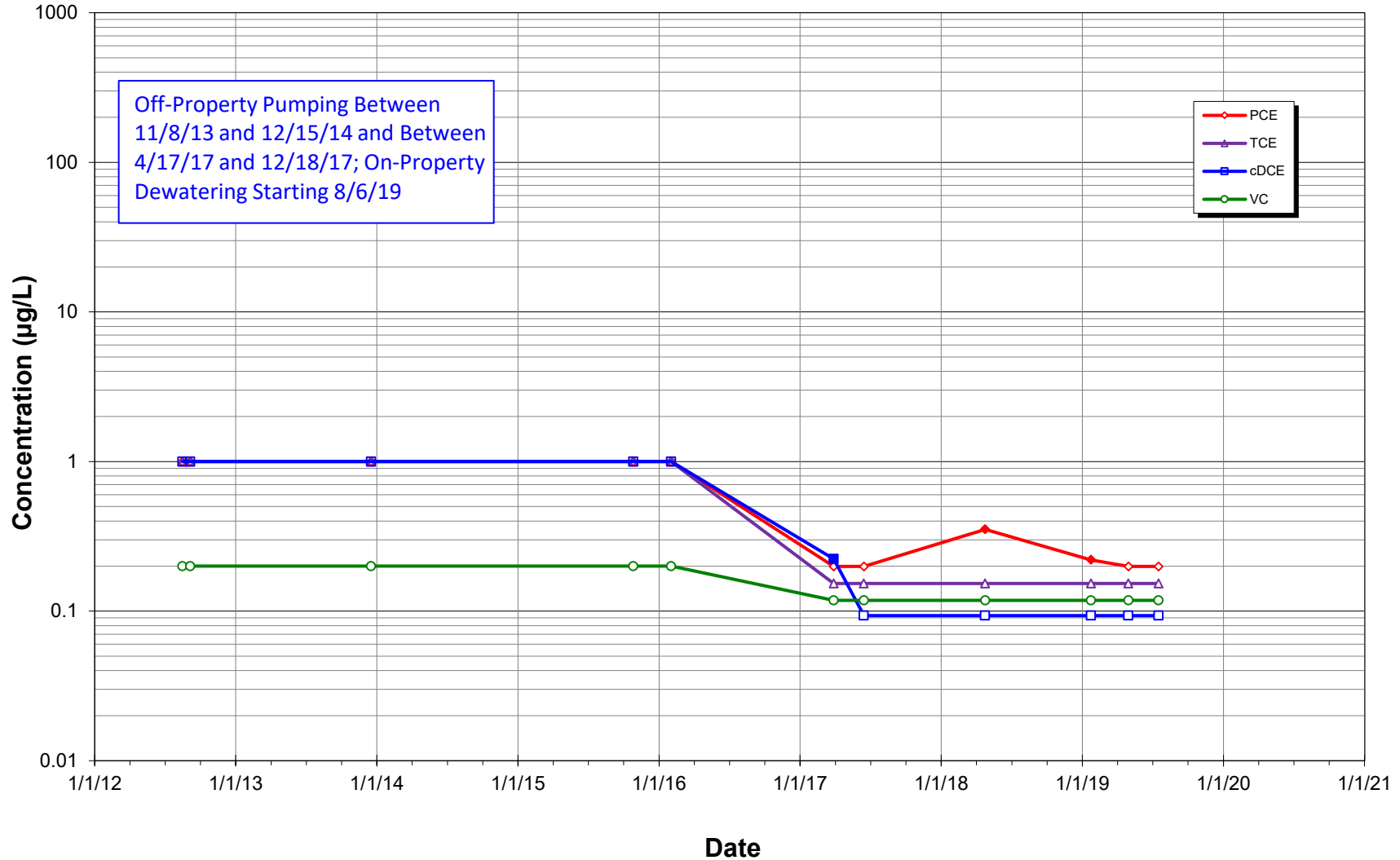
**Concentration vs Time  
 GEI-2 (-21.1 to -31.1 feet NAVD), Block 37  
 American Linen Supply Co–Dexter Ave Site**



Off-Property Pumping Between 11/8/13 and 12/15/14 and Between 4/17/17 and 12/18/17; On-Property Dewatering Starting 8/6/19

- Notes:**  
 1) All results detected below the laboratory MDLs are shown as hollow data points .  
 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

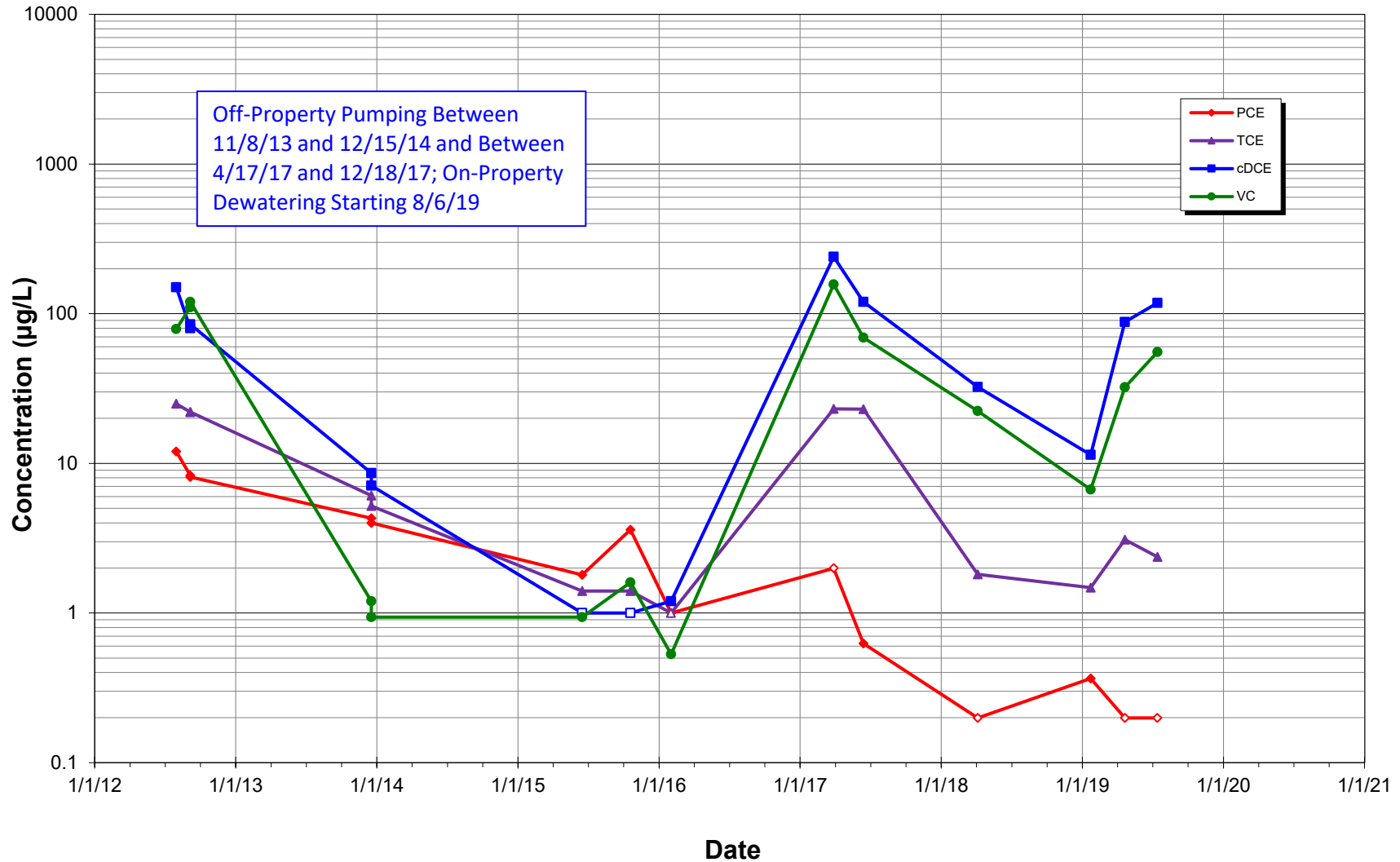
**Concentration vs Time**  
**MW102 (-65.8 to -75.8 feet NAVD), Valley Street**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

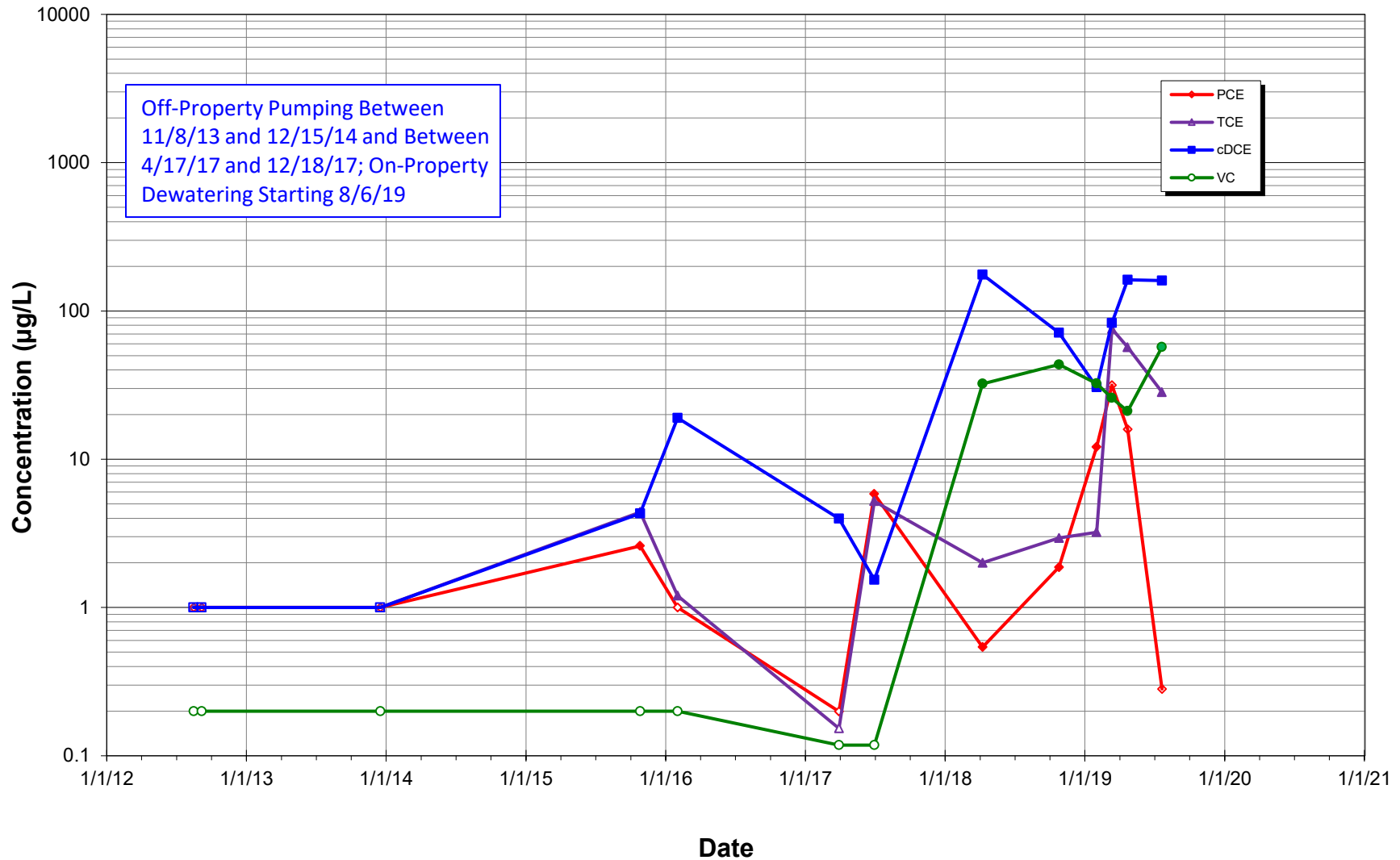
**Concentration vs Time  
MW103 (-67.6 to -77.6 feet NAVD), Alley  
American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

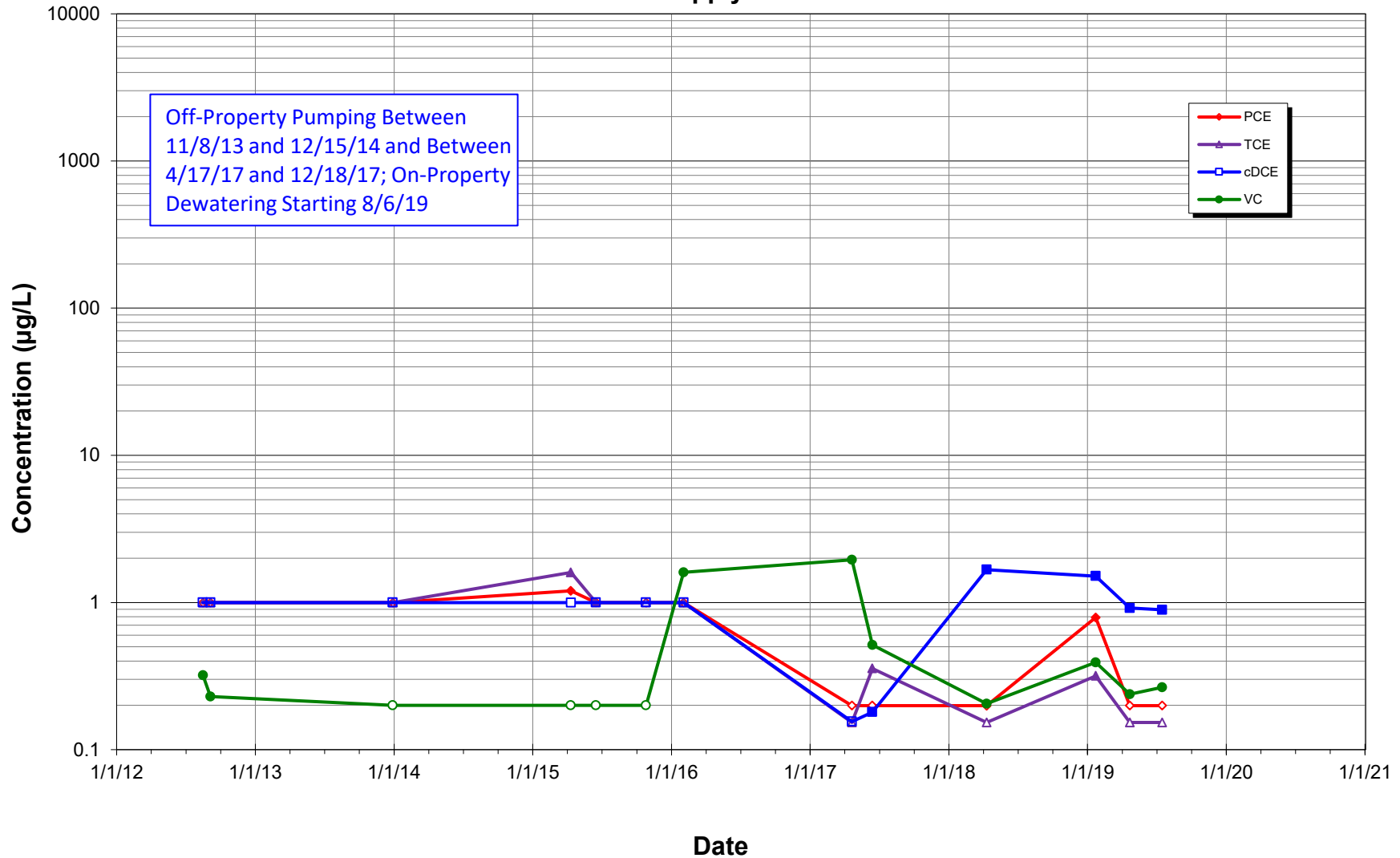
**Concentration vs Time**  
**MW104 (-76.3 to -86.3 feet NAVD), 8<sup>th</sup> Avenue North**  
**American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

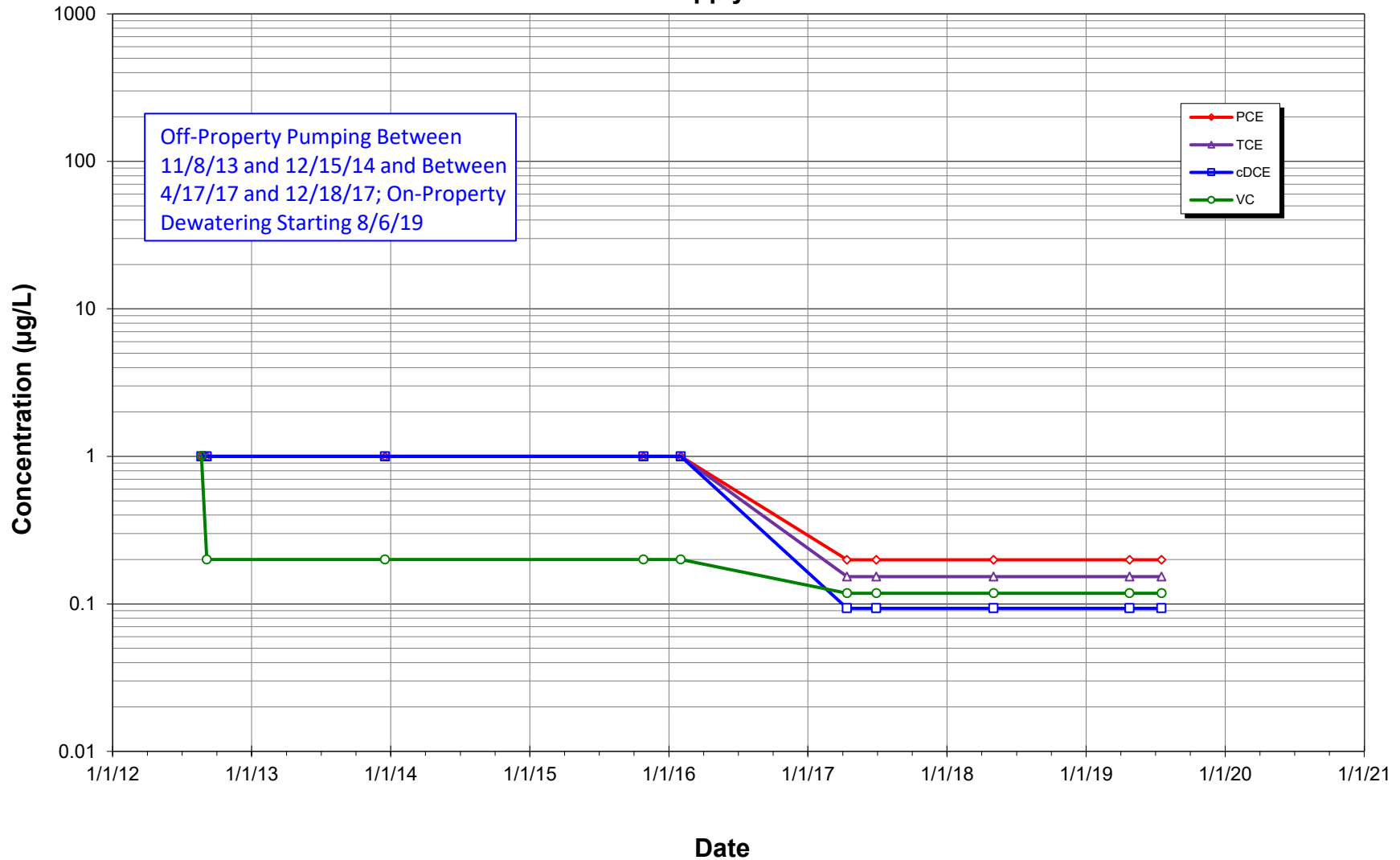
**Concentration vs Time**  
**MW105 (-85.3 to -95.3 feet NAVD), Roy Street**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

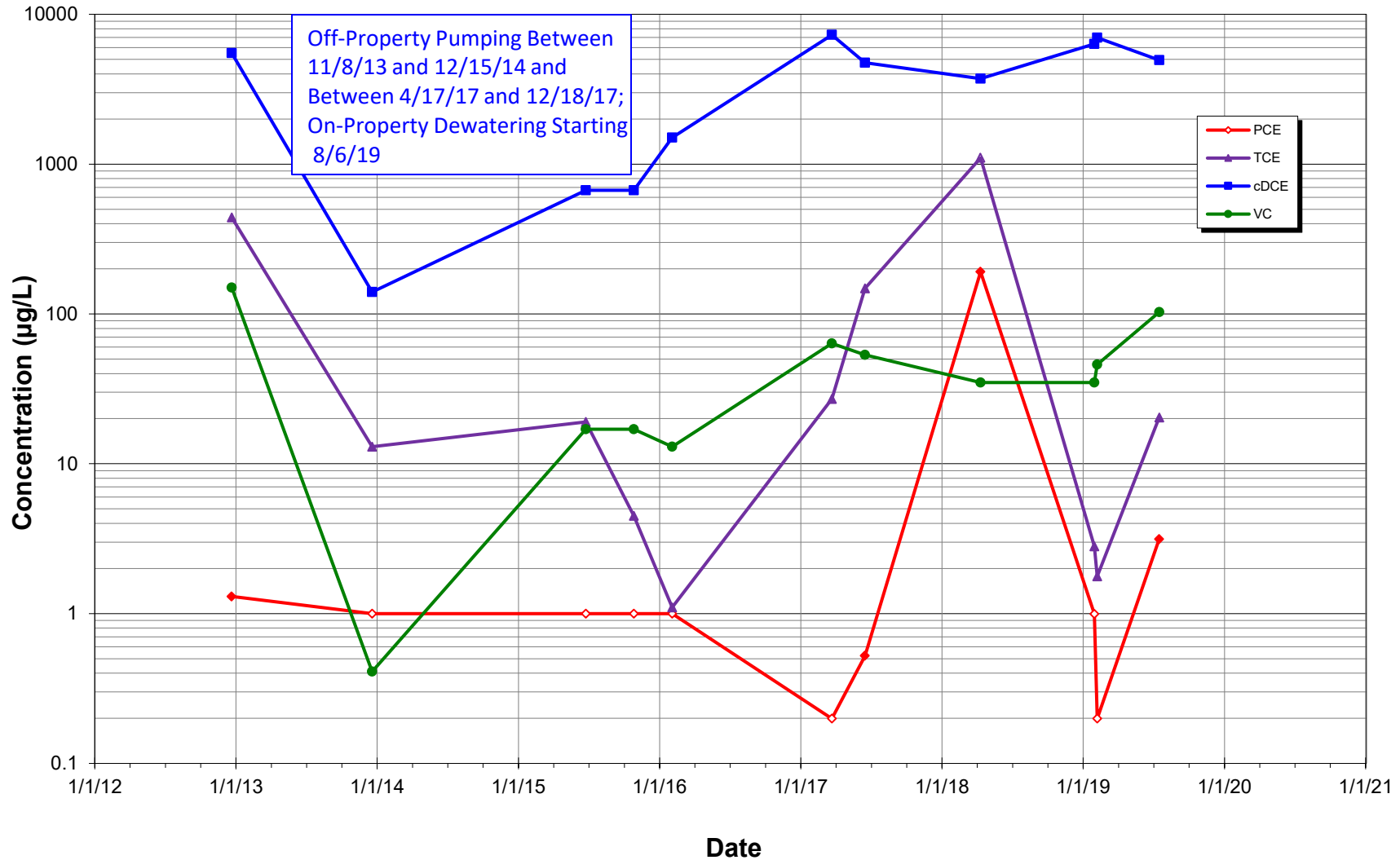
**Concentration vs Time  
MW106 (-78.0 to -88.0 feet NAVD), South of Roy Street  
American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**MW113 (-36.8 to -46.8 feet NAVD), 9<sup>th</sup> Avenue North**  
**American Linen Supply Co-Dexter Ave Site**

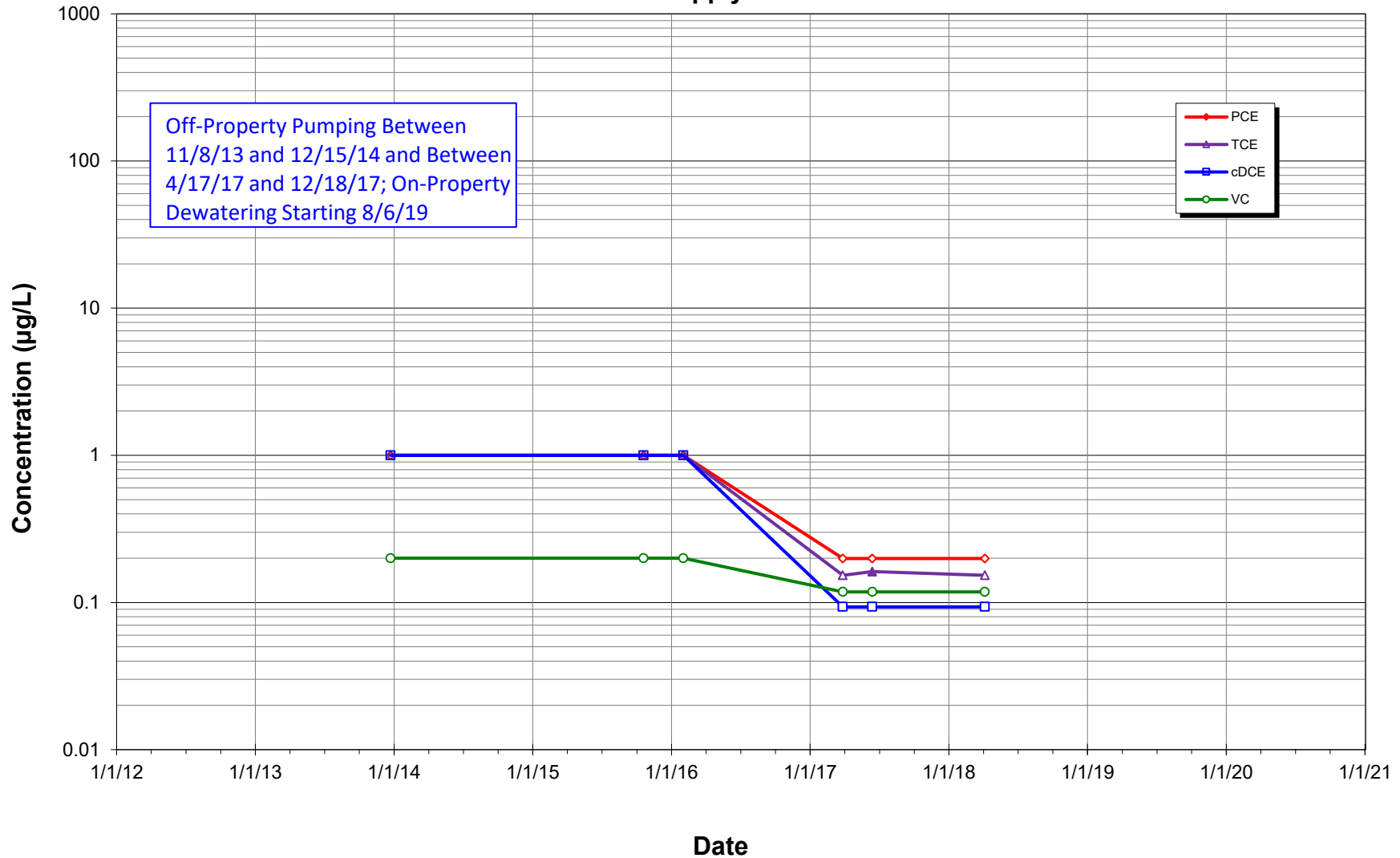


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



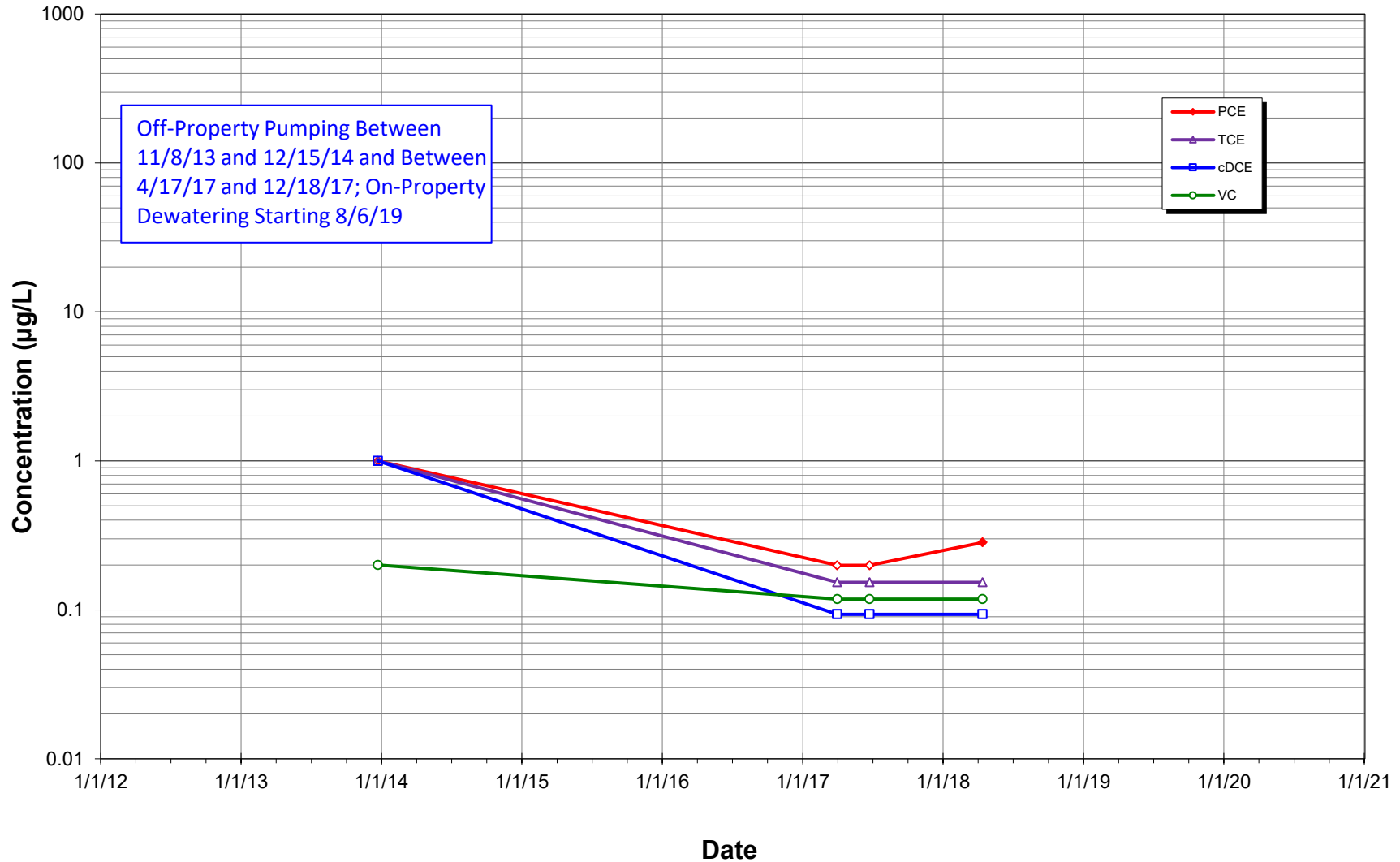
**Concentration vs Time**  
**MW122 (-75.0 to -85.0 feet NAVD), SCL Parcel**  
**American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

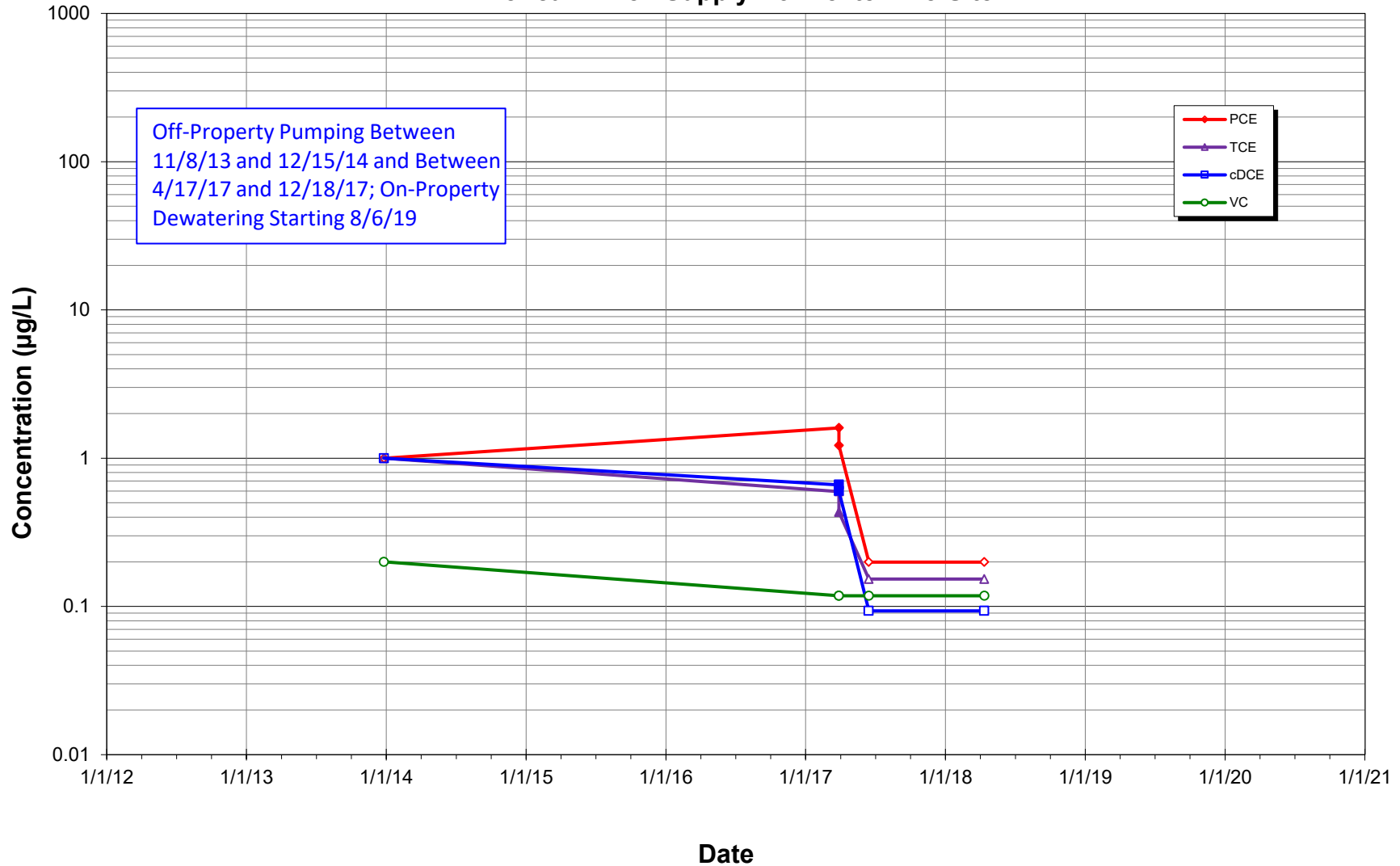
**Concentration vs Time**  
**MW123 (-42.5 to -52.5 feet NAVD), Westlake Avenue North**  
**American Linen Supply Co-Dexter Ave Site**



Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

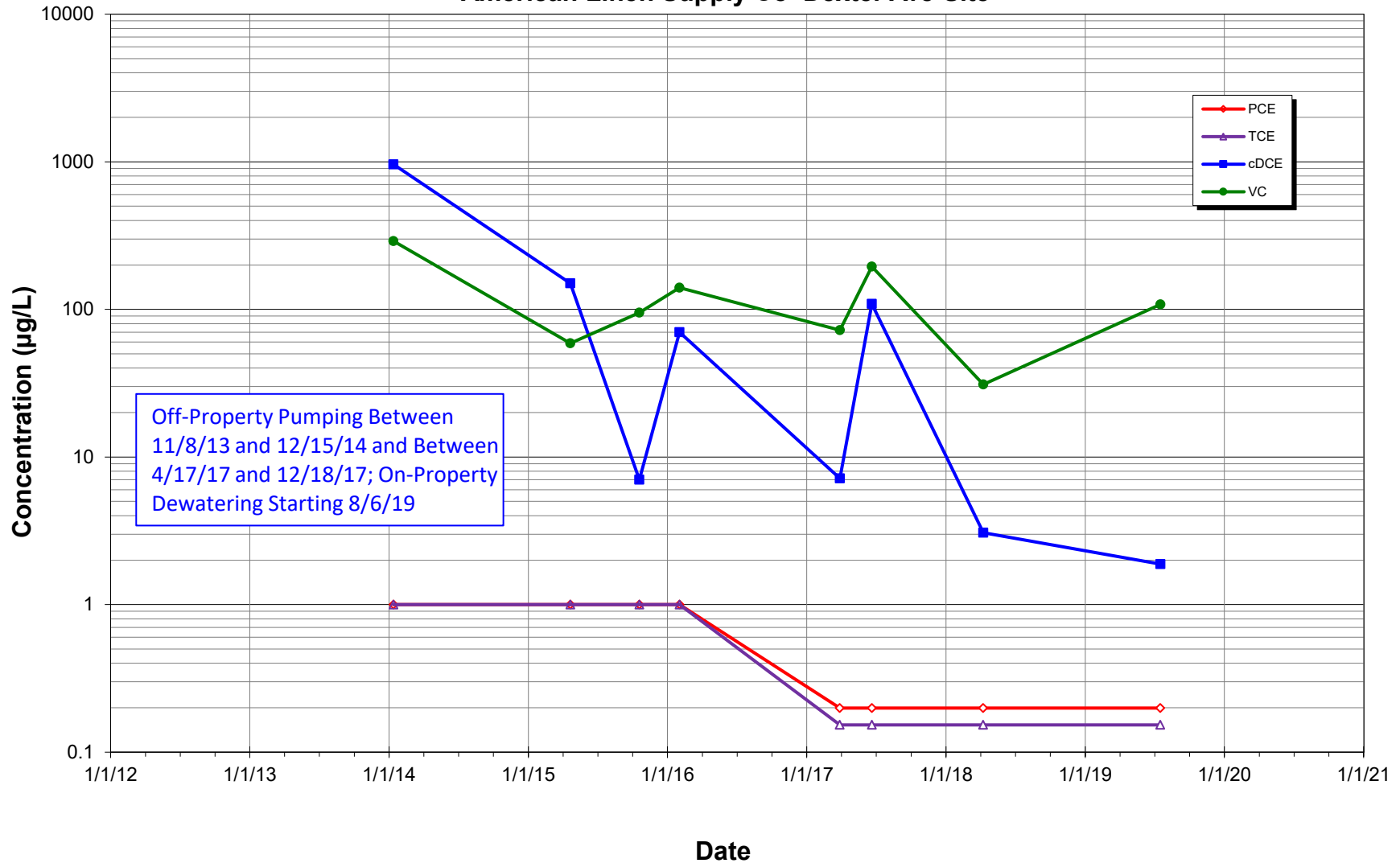
**Concentration vs Time**  
**MW124 (-53.8 to -63.8 feet NAVD), Valley Street**  
**American Linen Supply Co–Dexter Ave Site**



Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

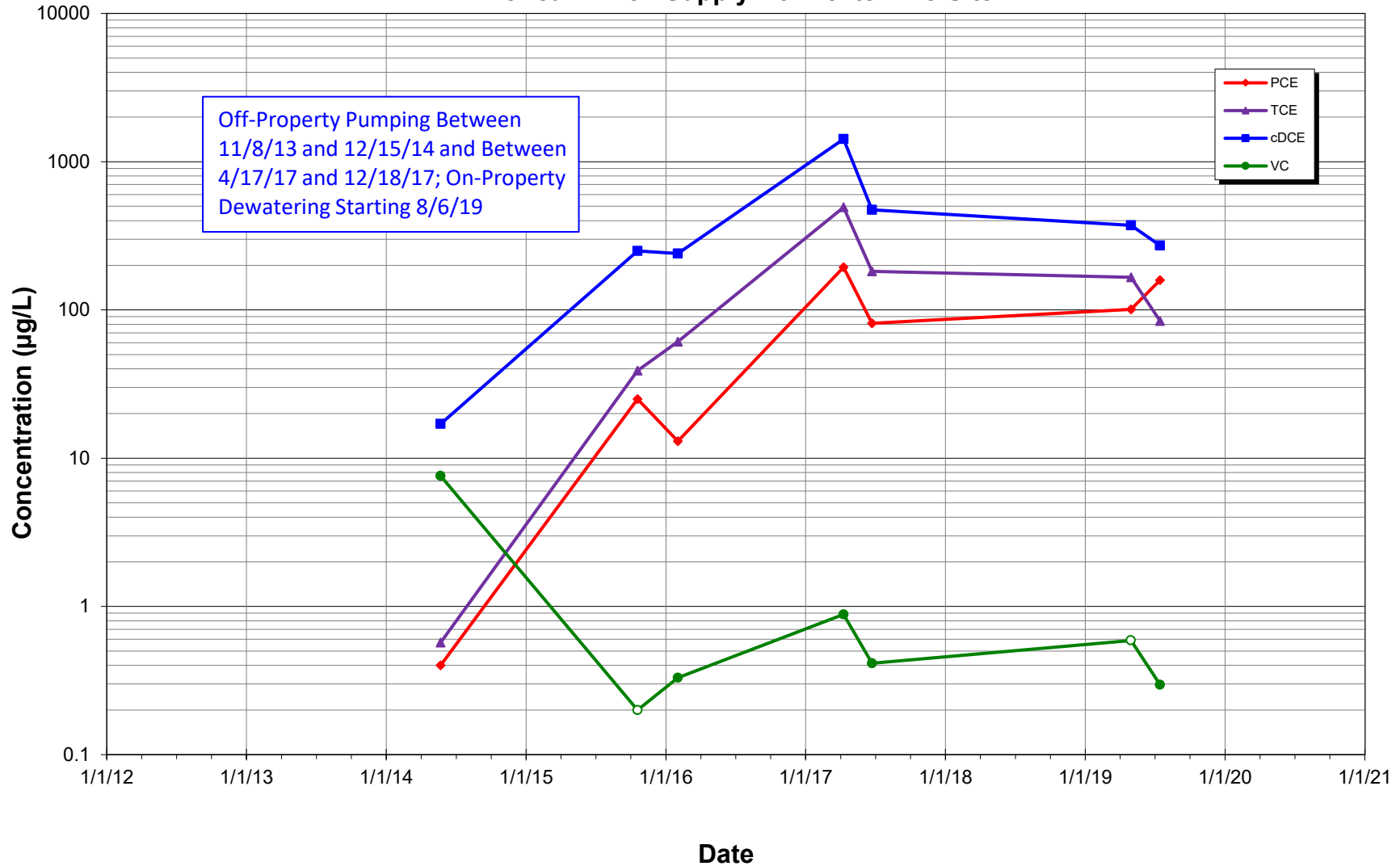
**Concentration vs Time**  
**MW128 (-30.8 to -40.8 feet NAVD), Westlake Avenue North**  
**American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

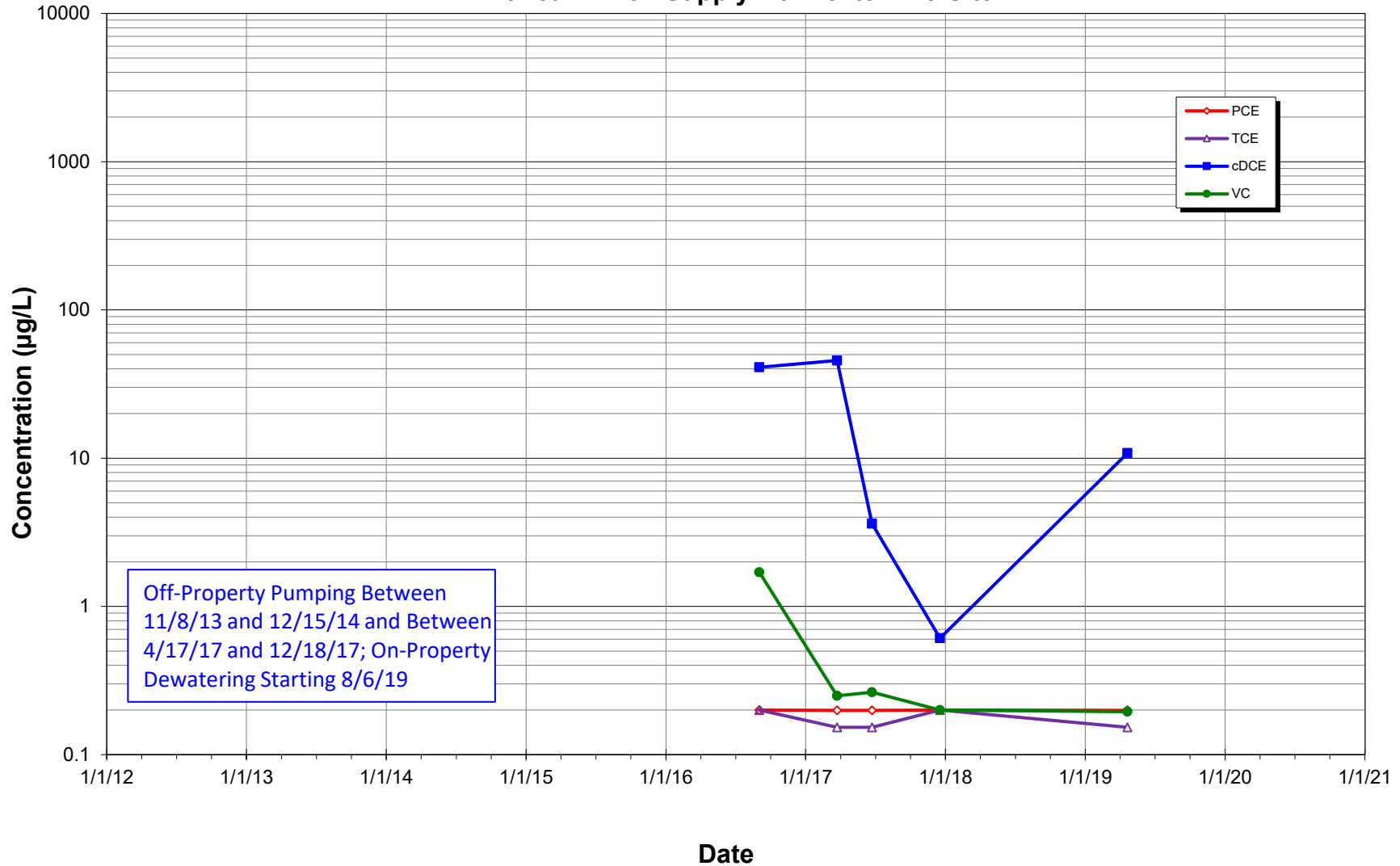
**Concentration vs Time**  
**FMW-129 (-45.6 to -50.6 feet NAVD), Roy Street**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

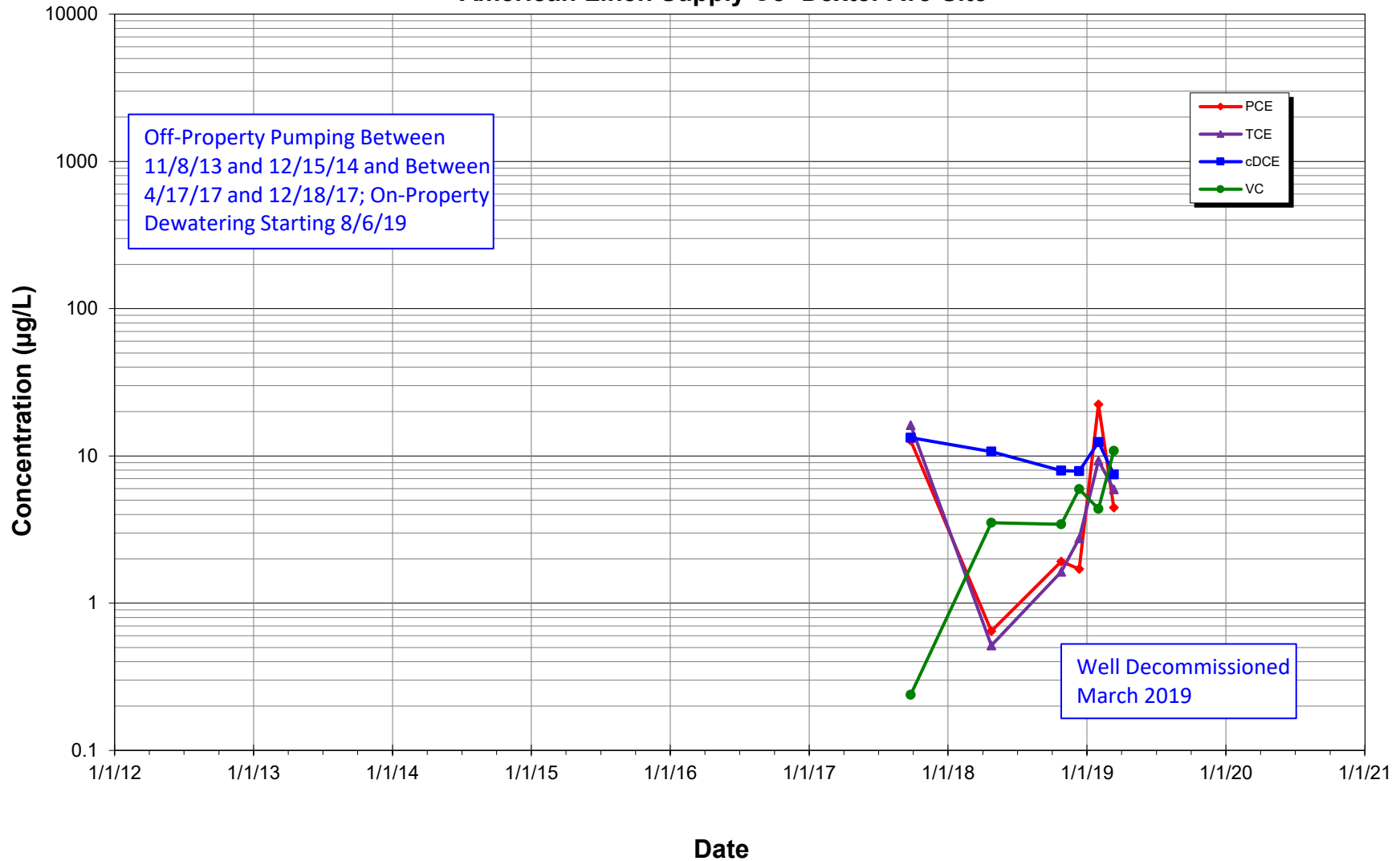
**Concentration vs Time**  
**FMW-131 (-34.7 to -44.7 feet NAVD), Block 37**  
**American Linen Supply Co-Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

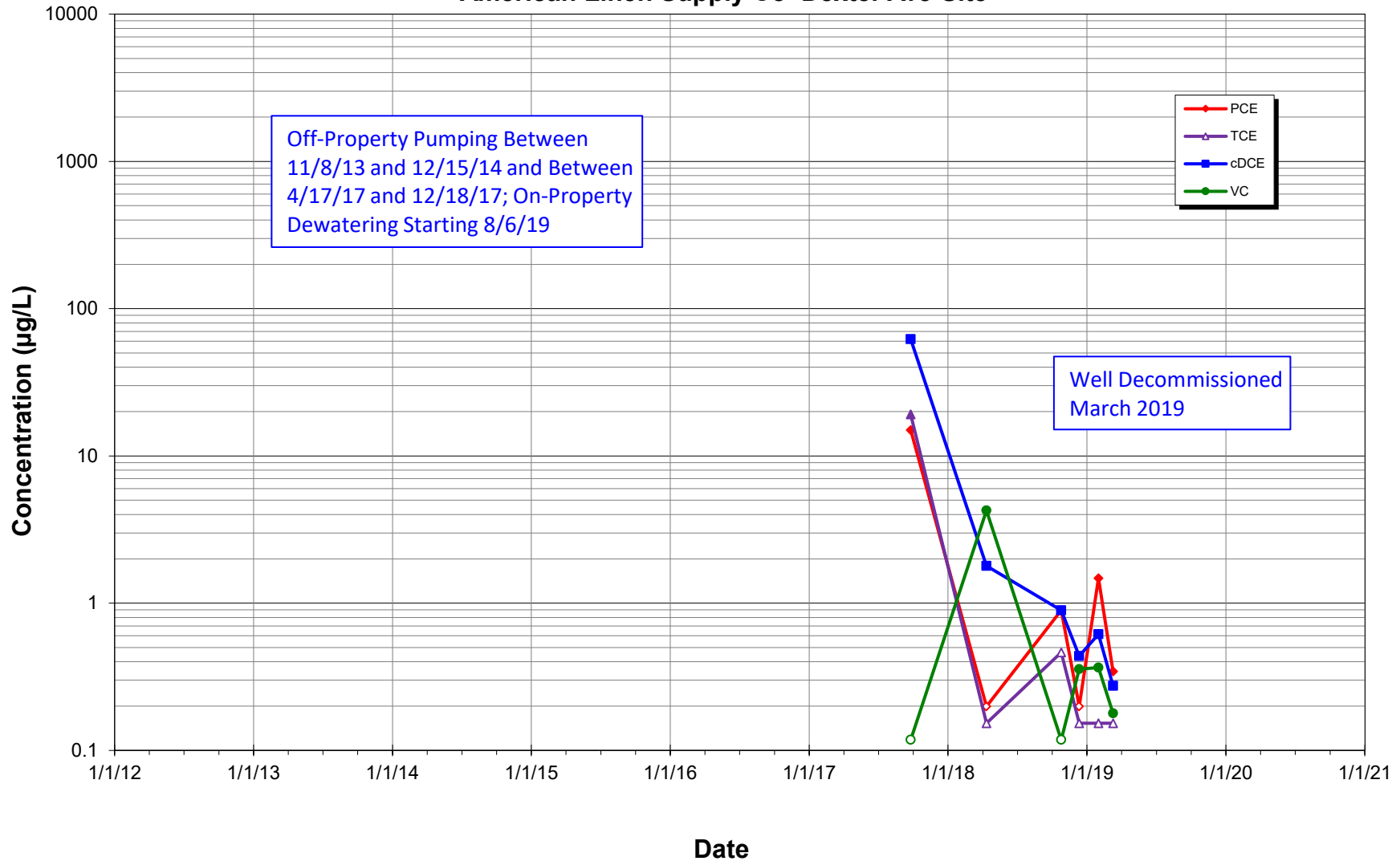
**Concentration vs Time**  
**MW-133 (-88.9 to -98.9 feet NAVD), Property**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**MW-137 (-53.3 to -63.3 feet NAVD), Property**  
**American Linen Supply Co–Dexter Ave Site**

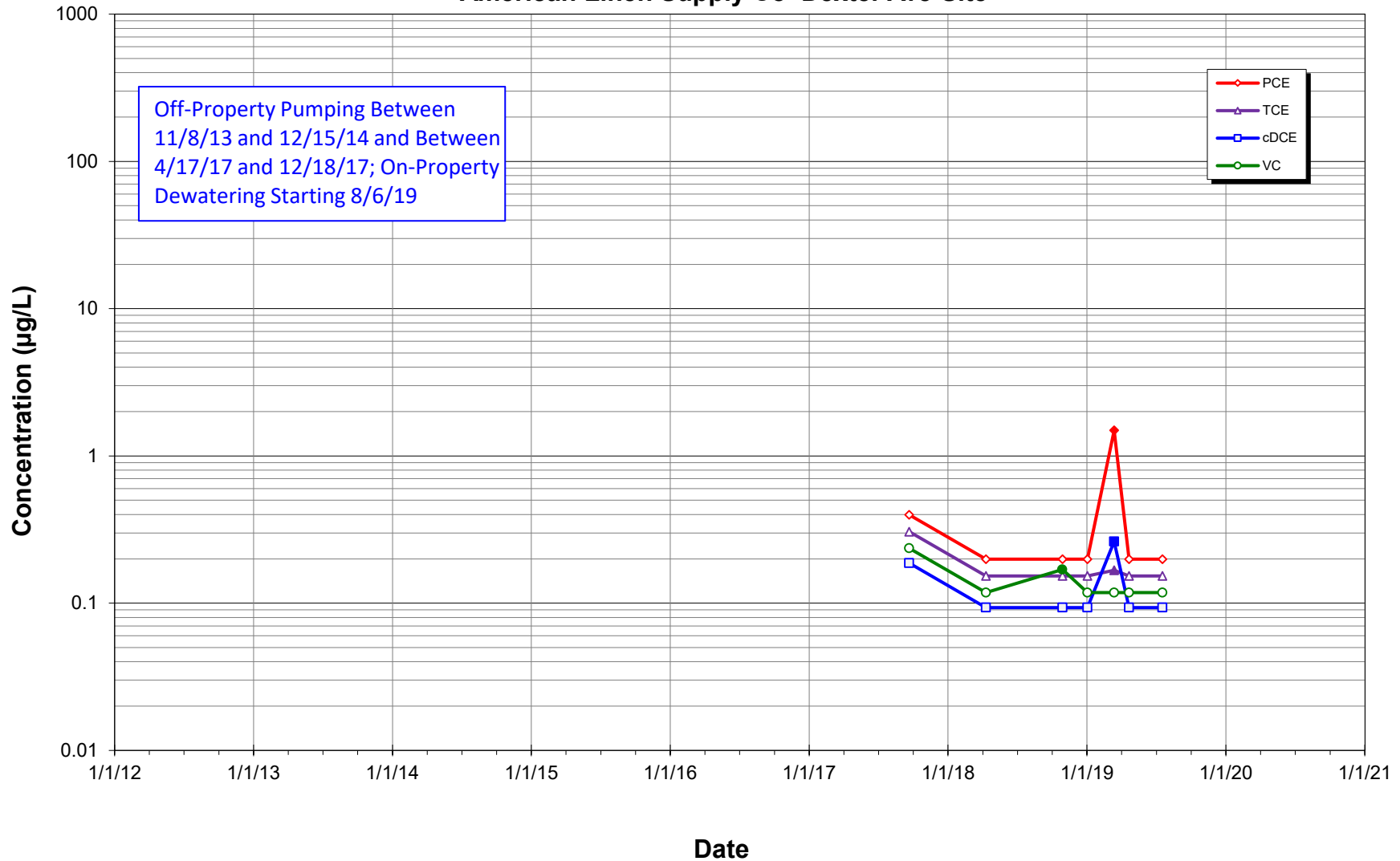


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

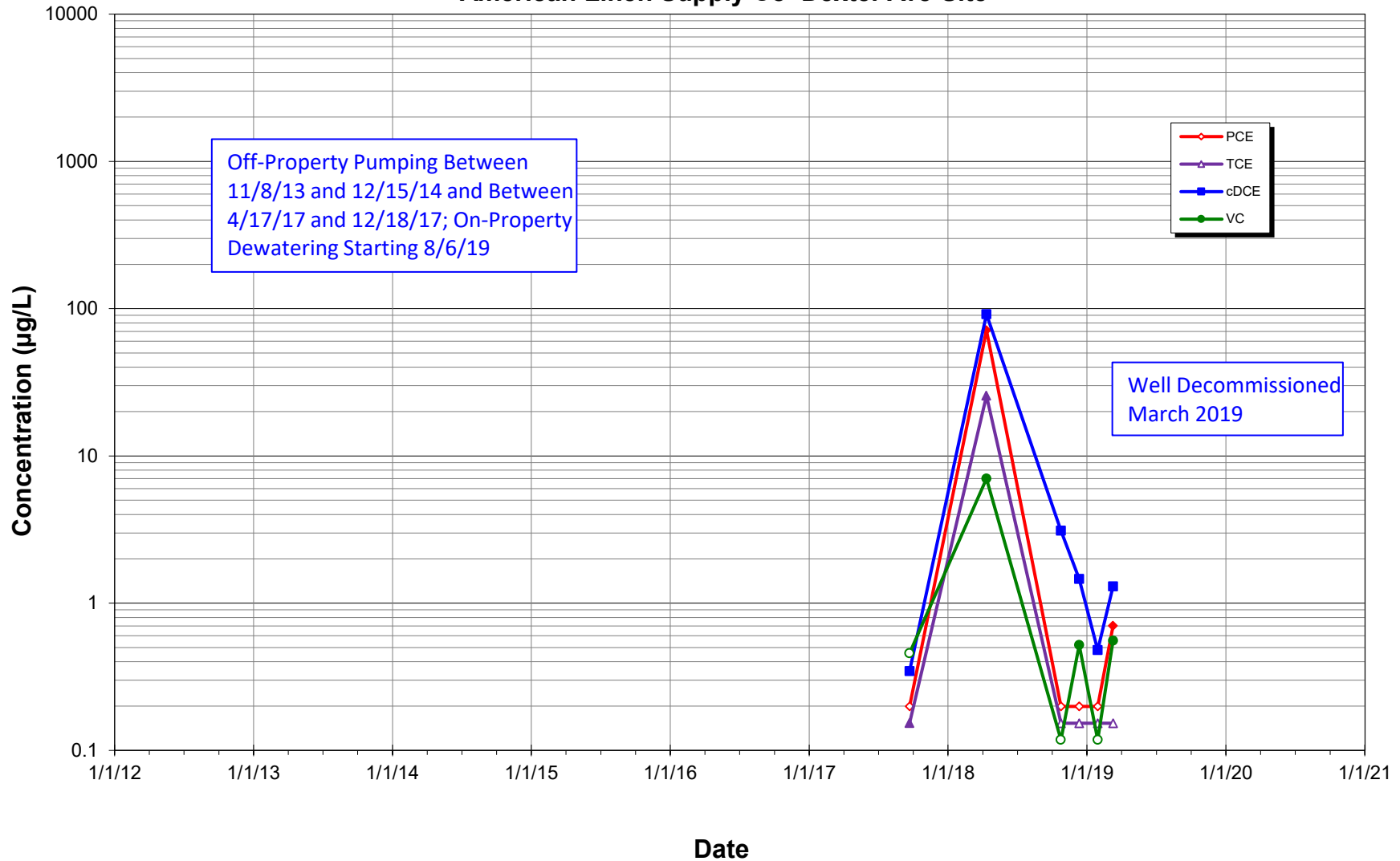


**Concentration vs Time**  
**MW-138 (-47.5 to -57.5 feet NAVD), Dexter Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



- Notes:**  
 1) All results detected below the laboratory MDLs are shown as hollow data points .  
 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

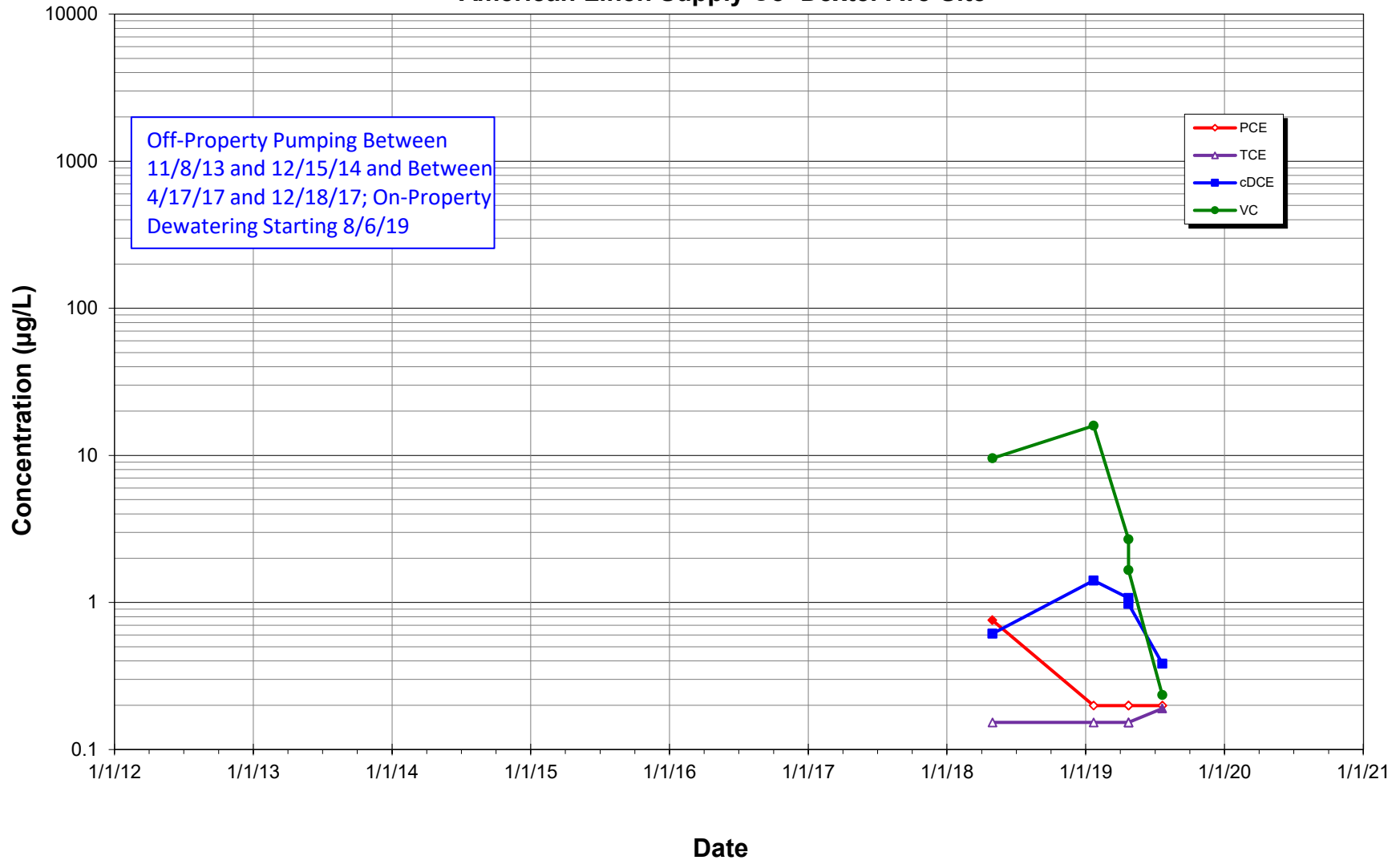
**Concentration vs Time**  
**MW-141 (-55.4 to -65.4 feet NAVD), Property**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

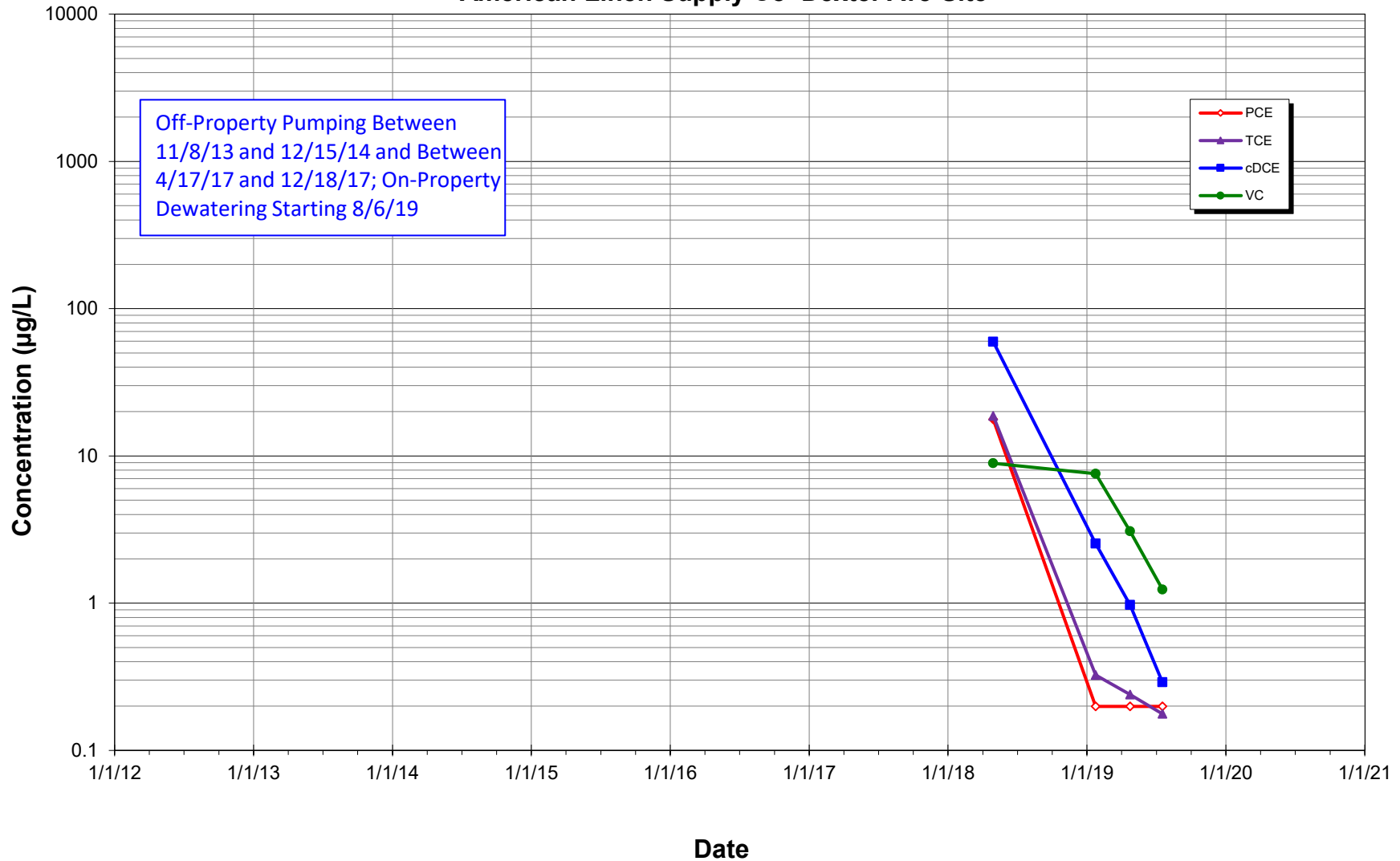
**Concentration vs Time**  
**MW-153 (-65.3 to -75.3 feet NAVD), Roy Street**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

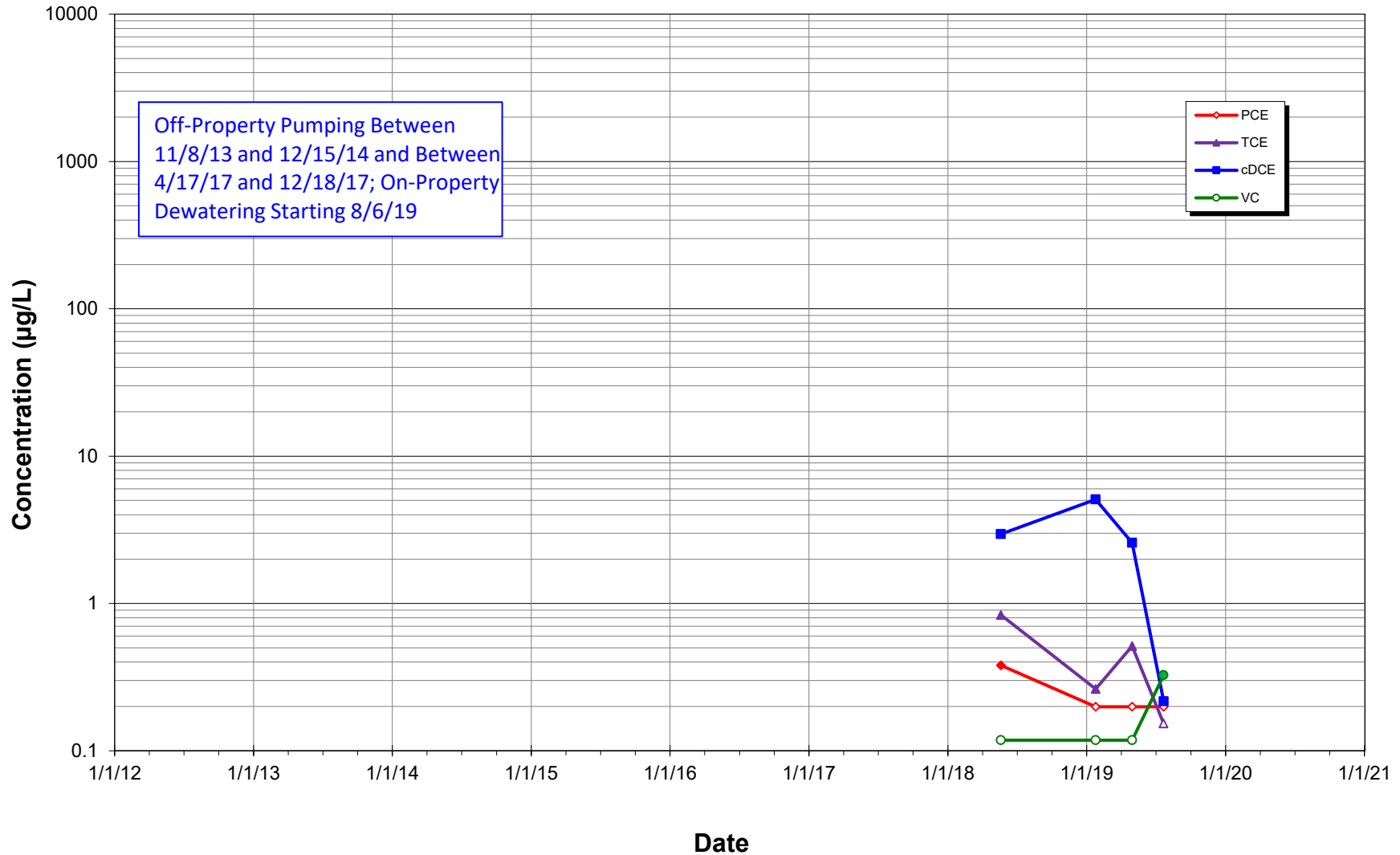
**Concentration vs Time**  
**MW-158A (-48.2 to -58.2 feet NAVD), 8<sup>th</sup> Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

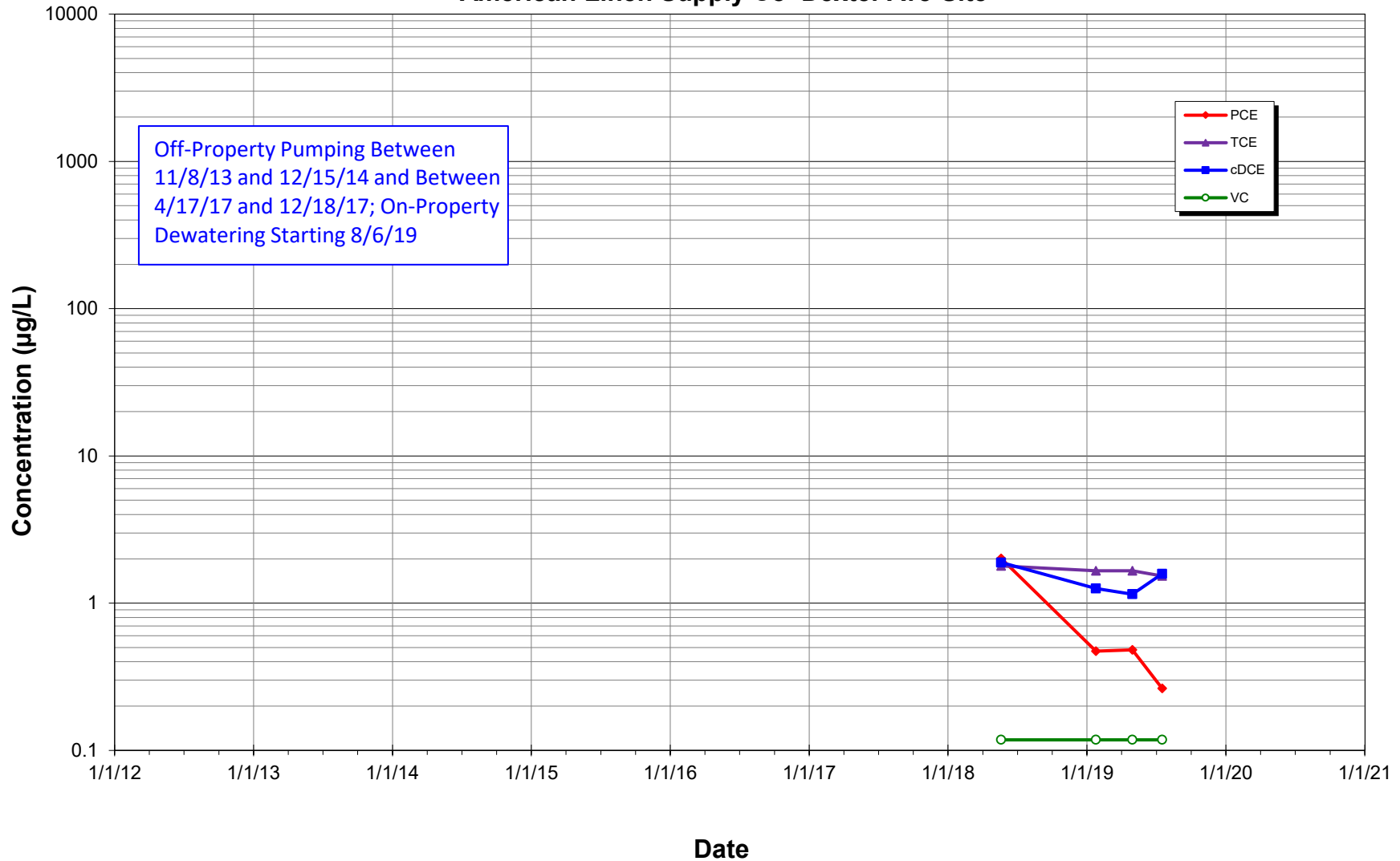
**Concentration vs Time**  
**MW-160 (-75.4 to -85.4 feet NAVD), 8<sup>th</sup> Avenue North**  
**American Linen Supply Co-Dexter Ave Site**



Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**MW-161 (-88.5 to -98.5 feet NAVD), 8<sup>th</sup> Avenue North**  
**American Linen Supply Co–Dexter Ave Site**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

## MEMORANDUM

**TO:** Project File **DATE:** August 11, 2019

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** American Linen Data Validation

**PROJECT #:** 1413.001.05.601

**TASK:** EIM Data Validation Level EPA2A for July and August 2019 – Groundwater and Soil Vapor Samples

**LAB:** Pace Sample Delivery Groups (SDGs): L1119161, L1119171, L1119726, L1120206, L1120698, L1121210, L1121576, L1121848, L1122507, and L1124853

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Forty-nine (49) groundwater samples (including three field duplicates), three (3) soil vapor samples (including one field duplicate), two (2) equipment blanks, and nine (9) trip blanks were collected as Round 3 Quarterly Monitoring sampling event at the Former American Linen Supply Site, in Seattle, Washington, between July 15-25, and August 1, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- VOCs by USEPA Method TO-15;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (Chloride, Nitrate, and Sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B.

Samples were collected between July 15-25 and August 1, 2019 and results are reported in ten Pace SDGs (L1119161, L1119171, L1119726, L1120206, L1120698, L1121210, L1121576, L1121848, L1122507, and L1124853). The quality assurance review of the sample data is summarized below.

### DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with PACE control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for

Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

## **DATA VALIDATION**

### **Completeness**

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

- SDG L1119161: Review of the chain of custody (COC) shows date of collection missing from samples MW112-071619, GEI-1-071619, and GEI-2-071619. PES confirmed that the date of collection was July 16, 2019.
- SDG L1119171: Review of the COC indicates MW103-071519. Pace identified the sample as MW-103-071519. Review of COC shows that the date that the laboratory received the cooler was recorded as 7/17 but date of receipt should read 7/17/2019.
- SDG L1119726: Review of COC shows that the date that the laboratory received the cooler was recorded as 7/18 but date of receipt should read 7/18/2019.
- SDG L1120206: Review of the COC indicates MW 126-071819. Pace identified the sample as MW-126-071819.
- SDG L1120698: Review of the COC shows MW125-071819 and MW106-071919. Pace identified the samples as MW-125-071819 and MW-106-071919. The associated trip blank sample is included in the COC remarks section.
- SDG L1121210: Review of the COC shows MW104-072219 and MW107-072219. Pace identified the samples as MW-104-072219 and MW-107-072219. Date of collection was not recorded for samples MW-148-072219, MW-153-072219, MW-157-072219, MW-156-072219, and MW-107-072219. PES confirmed that samples were collected on July 22, 2019.

### **Sample Collection and Preservation**

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

### **Holding Times**

*USEPA Method 8260C:*



All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

*USEPA Method TO-15:*

The analyses for VOCs by Method TO-15 were performed within the 30-day recommended holding time limit for the air samples collected in Summa canisters. All holding time criteria are met.

*NWTPH-Gx Method:*

All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

*USEPA Method 6020B:*

All samples were analyzed within the USEPA recommended holding time for iron and manganese of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria are met.

### **Initial and Continuing Calibration**

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

- SDGs L1119161 and L1119171 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues are noted by Pace for trans-1,4-dichloro-2-butene and trichlorofluoromethane (CFC-11) associated with analytical batch WG1313581 (analyzed on July 18, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**
- SDGs L1119726 and L1120206 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues are noted by Pace for acetone, trans-1,4-dichloro-2-butene, iodomethane (methyl iodide), and naphthalene associated with analytical batch WG1314770 (analyzed on July 20, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**

- SDG L1120698 - *USEPA Method 8260C*: CCV issues are noted by Pace for multiple compounds associated with analytical batch WG1315893 (analyzed on July 23, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**
- SDG L1121210 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues are noted by Pace for trichlorofluoromethane associated with analytical batch WG1317389 (analyzed on July 25, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**
- SDG L1121576 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues are noted by Pace for trichlorofluoromethane associated with analytical batch WG1317389 (analyzed on July 25, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**
- SDG L1124853 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues are noted by Pace for trans-1,4-dichloro-2-butene and trichlorofluoromethane associated with analytical batch WG1323449 (analyzed on August 6, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**

### **Method Blank Results**

#### *USEPA Method 8260C:*

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

- SDG L1119161 - Analytical batch WG1313581: A low level of acetone is detected in the method blank. A low level of acetone is also detected in the trip blank. **Acetone detections in samples FMW-129-071619, MW112-071619, GEI-1-071619, and GEI-2-071619 are detected below the RDL are qualified (U) as non-detects due to trip, and/or method blank contamination.** A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples.
- SDG L1119171 - Analytical batch WG1313581: A low level of acetone is detected in the method blank. **Acetone detections in samples MW-110-071519, MW-111-071519, MW-103-071519, MW-109-071519, MW-154-071519, MW-108-071519, MW-9-071619, MW-120-071619, and R-MW5-071619 are detected below the RDL are qualified (U) as non-detects due to method blank contamination.** A low level of

hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples.

- SDG L1119171 - Analytical batch WG1313748: Low levels of gasoline are detected (below the RDL) in the trip and method blanks. **Associated low level gasoline detection, below the RDL, in samples MW-154-071519 and MW-9-071619, are qualified as not detected (U).**
- SDGs L1121210 - Analytical batch WG1317007: A low level of tetrachloroethene (PCE) is detected in the method blank. Tetrachloroethene was detected, below the RDL, in the associated trip blank. No action is taken other than to note this.
- SDG L1121576 - Analytical batch WG1317007: A low level of PCE is detected in the method blank. PCE was detected, below the RDL, in the trip blank sample. No action is taken on this basis.
- SDGs L1121210 and L1121576 - Analytical batch WG1317007: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples or the trip blank associated with SDG L1121576.
- SDG L1121210 - Analytical batch WG1317370: A low level of PCE is detected in the method blank. **Tetrachloroethene was detected, below the RDL, in sample MW-148-072219 and is qualified (U) as non-detect due to method blank contamination.**
- SDG L1121576 – Analytical batch WG1317389: A low level of tetrachloroethene is detected in the trip and method blanks. Tetrachloroethene was detected in sample MW-155-072319 but the result is significantly greater than the method blank detection. No action was taken.
- SDG L1124853 - Analytical batch WG1323449: Low levels of hexachloro-1,3-butadiene and 1,2,4-trimethylbenzene are detected in the method blank. No action was necessary since these compounds are not detected in the associated sample.

#### *USEPA Method TO-15:*

A laboratory method blank is included with the analytical batch per method requirement. The target analytes were not detected in the method blank at or above the RDLs with the following exceptions:

- SDG L1121848 – Analytical batch WG1317302: Multiple compounds are detected at low levels (below the RDLs) in the soil vapor method blank. Discussion and exception are as follows:
  - Sample SV-02-071919 result for toluene was detected is slightly greater than the blank detection. Sample dilution (2X) was evaluated against the blank

contamination. No action was taken for the toluene result as bias from the contamination is considered negligible.

- Sample SV-01-071919 results for methylene chloride, propene, and toluene are laboratory qualified (B) to indicate method blank contamination. **Sample SV-01-071919 results for methylene chloride (a common laboratory contaminant), propene, and toluene are estimated and qualified (J+) due to low levels of blank contamination.** Sample dilution (2X) was evaluated against the blank contamination. A field duplicate sample SV-01-071919-D was also collected. Refer to the Field Duplicate section for further discussion regarding precision data.

*NWTPH-Gx Method:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1119161 - Analytical batch WG1313748: Gasoline is detected at a low level (below the RDL) in the method blank. **Gasoline detection in sample MW112-071619 is detected below the RDL and qualified (U) as non-detect due to trip, and/or method blank contamination.**
- SDG L1119171 - Analytical batch WG1313748: Gasoline is detected at a low level (below the RDL) in the method blank. **Gasoline detection in samples MW-154-071519 and MW-9-071619 are detected below the RDL and qualified (U) as non-detect due to method blank contamination.** No action is taken with sample MW-120-071619 since the gasoline detection exceeds the RDL.
- SDG L1119726 - Analytical batch WG1313748: Gasoline is detected at a low level (below the RDL) in the method blank. **Gasoline detection in samples MW105-071719 are detected below the RDL and qualified (U) as non-detect due to method blank contamination.** No action is taken on this basis for samples MW113-071719 and BB-8-071719 since the gasoline detections exceed the RDL.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

*USEPA Method 6020B and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL. General chemistry and metal blank detections are shown below:

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1119161	WG1315264	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	3000	J	20000	ug/L	NO
L1119161	WG1312677	9056A	Chloride	289	J	1000	ug/L	NO
L1119161	WG1313436	6020B	Iron	16.9	J	100	ug/L	NO
L1119161	WG1312677	9056A	Sulfate	312	J	5000	ug/L	NO
L1119161	WG1312820	9060A	TOC	284	J	1000	ug/L	NO
L1119171	WG1315264	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	3000	J	20000	ug/L	NO
L1119171	WG1312677	9056A	Chloride	289	J	1000	ug/L	NO
L1119171	WG1312677	9056A	Sulfate	312	J	5000	ug/L	NO
L1119171	WG1313391	9060A	TOC	117	J	1000	ug/L	NO
L1119726	WG1315387	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	2900	J	20000	ug/L	NO
L1119726	WG1313370	9056A	Chloride	294	J	1000	ug/L	NO
L1119726	WG1314078	9060A	TOC	212	J	1000	ug/L	NO
L1120206	WG1315970	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	3140	J	20000	ug/L	NO
L1120206	WG1314861	6020B	Iron	25.6	J	100	ug/L	NO
L1120206	WG1315213	9060A	TOC	231	J	1000	ug/L	NO
L1120698	WG1317440	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	2810	J	20000	ug/L	NO
L1120698	WG1314733	9056A	Sulfate	88.4	J	5000	ug/L	NO
L1120698	WG1315948	9060A	TOC	190	J	1000	ug/L	NO
L1121210	WG1317446	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	2860	J	20000	ug/L	NO
L1121210	WG1315944	9056A	Chloride	277	J	1000	ug/L	NO
L1121210	WG1315948	9060A	TOC	190	J	1000	ug/L	NO
L1121210	WG1316685	9060A	TOC	363	J	1000	ug/L	NO
L1121576	WG1317887	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	3080	J	20000	ug/L	NO
L1121576	WG1317639	9060A	TOC	195	J	1000	ug/L	NO
L1122507	WG1319145	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	3540	J	20000	ug/L	NO
L1122507	WG1318499	9060A	TOC	235	J	1000	ug/L	NO

## **Trip Blank Results**

### *USEPA Method 8260C and NWTPH-Gx:*

Nine trip blanks were collected and submitted for analysis. The target analytes were not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1119161 - Analytical batch WG1313748: Low levels of gasoline are detected (below the RDL) in the trip and method blanks. **The associated low level gasoline detection, below the RDL, in sample MW112-071619 is qualified as not detected (U).** Low levels of acetone are detected (below the RDL) in the trip and method blanks. **Acetone detections in samples FMW-129-071619, MW112-071619, GEI-1-071619, and GEI-2-071619 are detected below the RDL are qualified (U) as non-detects due to trip, and/or method blank contamination.**
- SDG L1119171 - Analytical batch WG1313748: Low levels of gasoline are detected (below the RDL) in the trip and method blanks. **Associated low level gasoline**

**detections, below the RDL, in samples MW-154-071519 and MW-9-071619, are qualified as not detected (U).**

- SDG L1121210 - Analytical batches WG1317007 (Trip Blank), WG1320771 (MW-104-072219), and WG1317370 (MW-148-072219): A low level of tetrachloroethene is detected (above the RDL) in the trip blank. Pace's sample narrative indicates that the PCE detection in the trip blank is likely due to instrument carryover. Tetrachloroethene was also detected above the RDL in two of the associated method blanks (WG1317007 and WG1317370). **A low level tetrachloroethene detection (below the RDL) in sample MW-148-072219 is qualified as not detected (U) due to method blank contamination.** No action is taken for sample MW-104-072219 because PCE was reanalyzed on July 31, 2019 with analytical batch WG1320771. No action was taken with sample MW-156-072219 since the detection is significantly greater than the RDL.
- SDG L1121576 – Analytical batch WG1317007 (Trip): Low levels of acetone and tetrachloroethene are detected in the trip blank. Pace's sample narrative indicates that the PCE detection in the trip blank is likely due to instrument carryover. PCE was also detected in the method blank. PCE was detected in sample MW-155-072319 but no action is required since the result associated with a different analytical batch (WG1317389) and is significantly greater than the trip/method blank detections. No action was taken on this basis. **Associated acetone detections, below the RDL, in sample MW-160-072319 and MW-155-072319, are qualified as not detected (U).**
- SDG L1124853 - Analytical batch WG1323449: Low levels of acetone and hexachloro-1,3-butadiene are detected in the trip blank. No action was necessary for hexachloro-1,3-butadiene as it was not detected in the associated sample and is laboratory qualified (B) to indicate method blank contamination. **The associated acetone detection, below the RDL, in sample MW127-080119, is qualified as not detected (U).**
- SDG L1124853 - Analytical batch WG1325194: A low level of gasoline is detected (below the RDL) in the method blank. No action was necessary since gasoline was not detected in the associated sample or trip blank.

### **Field, Rinsate, or Equipment Blank Results**

#### *All Analytical Methods:*

Two equipment blanks (EQ-071919 and EQ-072519) were collected and analyzed for VOCs, gasoline, dissolved gases (methane, ethane, and ethene), metals (iron and manganese), wet chemistry parameters (alkalinity, chloride, nitrate, sulfate, and TOC). Review of the equipment blank results are as follows:

- SDG L1120698: An equipment blank sample (EQ-071919) was collected on July 19, 2019 from the bladder pump associated with samples MW-158A-071919, MW-146-071919, field duplicate sample MW-913-071919, MW-143-071919, and MW-106-071919. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

- Low levels of acetone and chloroform (both below the RDL) are detected in the equipment blank. No action was needed for chloroform as it was not detected in the associated samples. **Sample MW-158A-071919, MW-143-071919, and MW-106-071919 acetone detections are less than the RDL and are qualified (U) as not detected due to equipment blank contamination.**
- Methane and ethane were detected in the equipment blank and associated samples as shown below:

Sample ID	Methane 0.678 ug/L RDL	Ethane 1.29 ug/L RDL	Ethene 1.27 ug/L RDL
EQ-071919	218	1.29 U	14.1
MW-158A-071919	222	1.29 U	5.86
MW-146-071919	6490	1.29 U	463
MW-143-071919	4790	96.5	14.4
MW-106-071919	39.5	1.29 U	1.27 U

- Methane and ethane qualifiers are assigned as follows:
  - **Sample MW-158A-071919 methane detection is slightly greater than the equipment blank concentration and is estimated with high bias (J+). Sample MW-158A-071919 ethene detection is less than the equipment blank concentration and qualified as not detected (U).**
  - **Sample MW-143-071919 ethene detection is slightly greater than the equipment blank concentration and is estimated with high bias (J+).**
  - **Sample MW-106-071919 methane detection is less than the equipment blank concentration and qualified as not detected (U).**
- Low levels of alkalinity, chloride, TOC, iron, and manganese are detected in the equipment blank. No action was taken on this basis since associated detections are either above the RDL or are not detected.
- SDG L1122507: An equipment blank sample (EQ-072519) was collected on July 27, 2019 from the bladder pump associated with samples MW-142-072519. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:
  - Low levels of acetone, chlorobenzene, and chloroform are detected in the equipment blank. **Sample MW-142-072519 acetone, chlorobenzene, and chloroform detections are less than the RDL and are qualified (U) as not**

**detected due to equipment blank contamination.** Low levels of alkalinity, chloride, nitrate, sulfate, TOC, iron, and manganese are also detected in the equipment blank. No action was taken on this basis since associated detections are either above the RDL or are not detected.

### **Field Duplicate Analyses**

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1120206: Samples MW-147-071819 and MW-912-071819;
- SDG L1120206: Samples SCS-2-071819 and MW-914-071819;
- SDG L1120698: Samples MW-146-071919 and MW-913-071919;
- SDG L1121848: Samples SV-01-071919 and SV-01-071919-D

Target analyte results are comparable and within a relative percent difference (RPD) of 30% for the field duplicate pair with the following exceptions:

- SDG L1120206: Samples MW-147-071819 and MW-912-071819 - Iron results are not comparable with an RPD greater than 30% (for results < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for iron are estimated and qualified (J).**
- SDG L1120698: Samples MW-146-071919 and MW-913-071919 - Gasoline, cis-1,2-dichloroethene, and vinyl chloride results are not comparable with RPDs greater than 30% (for results < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for gasoline, cis-1,2-dichloroethene, and vinyl chloride are estimated and qualified (J).** Refer to Compound Identification and Quantitation Limits for further discussion regarding gasoline results.
- SDG L1121848: Samples SV-01-071919 and SV-01-071919-D - Acetone results are not comparable with an RPD greater than 30% (low level duplicate results were evaluated using < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for acetone are estimated and qualified (J).** The associated method blank was contaminated with multiple compounds at low levels. Refer to the discussion under Method Blank Results for more information.

### **Laboratory Duplicate Analyses**

#### *USEPA Method 8260C:*

Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

#### *NWTPH-Gx Method:*

A laboratory duplicate sample was not analyzed. Refer to LCS/LCSD or MS/MSDs results for precision data.



*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

*USEPA Method 6020B:*

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

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

A laboratory duplicate sample was performed on client samples and on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits with the following discussions:

- SDG L1121576: Non client laboratory duplicate sample nitrate RPD result exceeds 15%. No action is taken since the duplicate was performed on a non-client sample refer to additional laboratory duplicate results for precision data.
- SDG L1121576: Client sample MW-160-072319 TOC RPD result slightly exceeds 20%. No action is taken since the result < 5X RDL and the absolute difference < 1X RDL.

**Surrogate Recoveries**

*USEPA Method 8260C:*

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all the analyses with the following exceptions:

- SDG L1120698 – Analytical Batch WG1315893: Surrogate recovery toluene-d8 is recovered above laboratory control limit criteria for sample MW-138-071919. Acetone is detected in MW-138-071919 however detected results are already estimated and qualified (J) since the result is below the RDL.
- SDG L1120698 Analytical Batch WG1315893: Surrogate recovery toluene-d8 is recovered above laboratory control limit criteria for sample MW-119-071919. Acetone, cis-1,2-dichloroethene, and tetrachloroethene are detected at low levels in sample MW-119-071919 however detected results are already estimated and qualified (J) since the result is below the RDL.

*USEPA Method TO-15:*

The surrogate recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

*NWTPH-Gx Method:*

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all analyses.

### **Laboratory Control Samples**

#### *USEPA Method 8260C:*

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions:

- SDGs L1119161 and L1119171 - Analytical batch WG1314393. An LCSD was not analyzed for cis-1,2-dichloroethene, tetrachloroethene, and trichloroethene. These selected targets were reanalyzed on July 20, 2019 due to necessary dilution. Refer to initial analysis associated with analytical batch WG1313581 for precision data.
- SDG L1119726 - Analytical batches WG1314770 and WG1316884. An LCSD was not analyzed. Refer to field duplicate data associated with SDG L1120206 for precision data.
- SDG L1120698 - Analytical batch WG1315893. An LCSD was not analyzed. Refer to field duplicate data for precision data.
- SDG L1121210 – Analytical batches WG1317007, WG1317389, and WG1320771. An LCSD was not analyzed. Refer to field duplicate data for precision data.

#### *USEPA Method TO-15:*

LCS/LCSDs were analyzed for the VOCs by TO-15 along with each analytical batch. LCS/LCSD %Rs and relative percent differences (RPDs) are within QC criteria.

#### *NWTPH-Gx Method:*

The LCS or LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

#### *Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

The LCS/LCSD %Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

#### *USEPA Method 6020B:*

The LCS/LCSD %Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

#### *General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

The LCS or LCS/LCSD %Rs and RPDs for general chemistry parameters are within the laboratory control criteria for waters.

## **Matrix Spike/Matrix Spike Duplicates**

### *USEPA Method 8260C:*

Matrix spike/matrix spike duplicate (MS/MSD) analyses was performed on a non-client sample within the analytical batch. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

### *USEPA Method TO-15:*

MS/MSD analyses were not performed. Refer to LCS/LCSD and field duplicate data for accuracy and precision data.

### *NWTPH-Gx Method:*

MS/MSD analyses were performed on client or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

### *Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

MS/MSD analyses were performed on client or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters with the following discussions:

- SDG L1120206 - Analytical batch WG1317135: MS/MSDs were performed on a non-client sample. The sample amounts for methane are greater than four times the spike amount exceeding the upper calibration criteria and MS/MSD results are qualified (EV) by the laboratory. No action was taken. LCS/LCSD results are within criteria.

### *USEPA Method 6020B:*

MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDG L1119161 - Analytical batch WG1313436: MS/MSD were performed on client sample FMW-129-071619. The sample amount for manganese is greater than four times the spike amount and MSD results are qualified (V) by the laboratory. Per Guidance, no action is necessary. LCS/LCSD results are within criteria.
- SDG L1121576 - Analytical batch WG1317876: MS/MSD were performed MW-160-072319. The sample amount for manganese is greater than four times the spike amount and MSD results are qualified (V) by the laboratory. Per Guidance, no action is necessary. LCS/LCSD results are within criteria.

### *General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or

laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDGs L1119161 and L1119171 - Analytical batch WG1312677: The MS/MSDs were performed on a non-client sample. Results for nitrate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. Results for sulfate are qualified (E and EV) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range and/or the sample amount was far greater than the spiked amount. No action was taken other than to note that the laboratory duplicate and LCS percent recovery results are within criteria.
- SDGs L1119161 and L1119171 - Analytical batch WG1312677: An additional MS was performed on client sample MW-120-071619 (SDG L1119171). Results for sulfate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that the LCS recovery results are within criteria.
- SDG L1119726 - Analytical batch WG1313370: MS/MSD analyses was performed on sample BB-8-071719. Results for sulfate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action is taken other than to note that the LCS and duplicate results are within criteria.
- SDG L1119726 - Analytical batch WG1313370: MS/MSD analyses was performed on non-client samples. Results for chloride and sulfate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action is taken other than to note that the LCS and duplicate results are within criteria.
- SDG L1120206 - Analytical batch WG1314262: MS/MSD analyses was performed on a non-client sample. Results for chloride and nitrate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action is taken other than to note that the LCS and duplicate results are within criteria.

### **Other Quality Control Issues**

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

- Multiple SDGs: Selected sample narratives for alkalinity results indicate that several sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.
- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

## **Compound Identification and Quantitation Limits**

Several chlorinated VOC compounds (including cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene, and tetrachloroethene) elute within the GRO retention time range. Elevated chlorinated VOC compounds likely contribute to the GRO result and associated GRO results are likely biased high (J+). No action was taken for gasoline detections below the RDL since the results are estimated (J). Qualified samples are as follows:

<b>Sample ID</b>	<b>Laboratory Identification</b>	<b>Result Parameter Name</b>	<b>Result Value (µg/L)</b>	<b>Qualified Result</b>	<b>Comments</b>
MW-120-071619	L1119171-08	Gasoline Range Organics	152	J+	Elevated chlorinated VOCs within the GRO elution range
MW113-071719	L1119726-02	Gasoline Range Organics	2560	J+	Elevated chlorinated VOCs within the GRO elution range
BB-8-071719	L1119726-05	Gasoline Range Organics	112	J+	Elevated chlorinated VOCs within the GRO elution range
MW-912-071819	L1120206-03	Gasoline Range Organics	170	J+	Elevated chlorinated VOCs within the GRO elution range
MW-147-071819	L1120206-06	Gasoline Range Organics	175	J+	Elevated chlorinated VOCs within the GRO elution range
MW-913-071919	L1120698-09	Gasoline Range Organics	262	J+	Elevated chlorinated VOCs within the GRO elution range
MW-157-072219	L1121210-05	Gasoline Range Organics	3880	J+	Elevated chlorinated VOCs within the GRO elution range
MW-156-072219	L1121210-06	Gasoline Range Organics	3100	J+	Elevated chlorinated VOCs within the GRO elution range
MW-107-072219	L1121210-07	Gasoline Range Organics	210	J+	Elevated chlorinated VOCs within the GRO elution range

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. No action is taken other than to note that Pace sample narrative notes indicate that VOC target compounds were too high to run at lower dilution for samples as follows:

- SDG L1120206: Sample MW-147-071819; and
- SDG L1121210: Samples MW-157-072219 and MW-107-072219.

## **Data Assessment**

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

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

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

July 24, 2019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## PES Environmental, Inc.- WA

Sample Delivery Group: L119161  
Samples Received: 07/17/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:

*Brian Ford*

Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



<b>Cp: Cover Page</b>	<b>1</b>
<b>Tc: Table of Contents</b>	<b>2</b>
<b>Ss: Sample Summary</b>	<b>3</b>
<b>Cn: Case Narrative</b>	<b>5</b>
<b>Sr: Sample Results</b>	<b>6</b>
FMW-129-071619 L1119161-01	6
MW112-071619 L1119161-02	9
GEI-1-071619 L1119161-03	12
GEI-2-071619 L1119161-04	15
TRIP-071619 L1119161-05	18
<b>Qc: Quality Control Summary</b>	<b>20</b>
Wet Chemistry by Method 2320 B-2011	20
Wet Chemistry by Method 9056A	21
Wet Chemistry by Method 9060A	23
Metals (ICPMS) by Method 6020B	24
Volatile Organic Compounds (GC) by Method NWTPHGX	25
Volatile Organic Compounds (GC) by Method RSK175	26
Volatile Organic Compounds (GC/MS) by Method 8260C	28
<b>Gl: Glossary of Terms</b>	<b>33</b>
<b>Al: Accreditations &amp; Locations</b>	<b>34</b>
<b>Sc: Sample Chain of Custody</b>	<b>35</b>



# SAMPLE SUMMARY



## FMW-129-071619 L1119161-01 GW

Collected by  
Ben Hecht  
Collected date/time  
07/16/19 11:15  
Received date/time  
07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315264	1	07/22/19 12:26	07/22/19 12:26	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1312677	1	07/17/19 18:43	07/17/19 18:43	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1312820	1	07/17/19 23:00	07/17/19 23:00	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1313436	5	07/19/19 13:55	07/22/19 13:04	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1315671	1	07/23/19 13:32	07/23/19 13:32	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 14:03	07/18/19 14:03	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314393	20	07/20/19 23:14	07/20/19 23:14	BMB	Mt. Juliet, TN

1  
Cp

2  
Tc

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Ss

4  
Cn

5  
Sr

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Qc

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Gl

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Al

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Sc

## MW112-071619 L1119161-02 GW

Collected by  
Ben Hecht  
Collected date/time  
07/16/19 12:05  
Received date/time  
07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315264	1	07/22/19 12:33	07/22/19 12:33	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1312677	1	07/17/19 18:59	07/17/19 18:59	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1312820	1	07/17/19 23:13	07/17/19 23:13	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1313436	1	07/19/19 13:55	07/22/19 11:18	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1313748	1	07/18/19 18:12	07/18/19 18:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1315671	1	07/23/19 13:52	07/23/19 13:52	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 14:25	07/18/19 14:25	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314393	1	07/20/19 23:33	07/20/19 23:33	BMB	Mt. Juliet, TN

## GEI-1-071619 L1119161-03 GW

Collected by  
Ben Hecht  
Collected date/time  
07/16/19 13:45  
Received date/time  
07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315264	1	07/22/19 12:40	07/22/19 12:40	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1312677	1	07/17/19 19:49	07/17/19 19:49	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1312820	1	07/17/19 23:41	07/17/19 23:41	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1313436	10	07/19/19 13:55	07/22/19 13:07	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1313436	20	07/19/19 13:55	07/22/19 13:47	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1315671	1	07/23/19 13:59	07/23/19 13:59	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1316246	10	07/23/19 17:16	07/23/19 17:16	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 14:46	07/18/19 14:46	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314393	1	07/20/19 23:53	07/20/19 23:53	BMB	Mt. Juliet, TN

## GEI-2-071619 L1119161-04 GW

Collected by  
Ben Hecht  
Collected date/time  
07/16/19 14:55  
Received date/time  
07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315264	1	07/22/19 13:09	07/22/19 13:09	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1312677	1	07/17/19 20:05	07/17/19 20:05	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1312820	1	07/17/19 23:55	07/17/19 23:55	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1313436	5	07/19/19 13:55	07/22/19 13:11	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1315671	1	07/23/19 14:05	07/23/19 14:05	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 15:08	07/18/19 15:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314393	1	07/21/19 00:13	07/21/19 00:13	BMB	Mt. Juliet, TN



# SAMPLE SUMMARY



TRIP-071619 L1119161-05 GW

Collected by: Ben Hecht  
 Collected date/time: 07/16/19 00:00  
 Received date/time: 07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1313748	1	07/18/19 15:37	07/18/19 15:37	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 12:58	07/18/19 12:58	BMB	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

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



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	221000		2710	20000	1	07/22/2019 12:26	<a href="#">WG1315264</a>

Sample Narrative:

L1119161-01 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	23700		51.9	1000	1	07/17/2019 18:43	<a href="#">WG1312677</a>
Nitrate	771		22.7	100	1	07/17/2019 18:43	<a href="#">WG1312677</a>
Sulfate	86800		77.4	5000	1	07/17/2019 18:43	<a href="#">WG1312677</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2230	<u>B</u>	102	1000	1	07/17/2019 23:00	<a href="#">WG1312820</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4600		75.0	500	5	07/22/2019 13:04	<a href="#">WG1313436</a>
Manganese	415	<u>V</u>	1.25	25.0	5	07/22/2019 13:04	<a href="#">WG1313436</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	40.5		0.287	0.678	1	07/23/2019 13:32	<a href="#">WG1315671</a>
Ethane	6.45		0.296	1.29	1	07/23/2019 13:32	<a href="#">WG1315671</a>
Ethene	U		0.422	1.27	1	07/23/2019 13:32	<a href="#">WG1315671</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.75	<u>B J</u>	1.05	25.0	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 14:03	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 14:03	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,1-Dichloroethene	1.69		0.188	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	272		1.87	10.0	20	07/20/2019 23:14	<a href="#">WG1314393</a>
trans-1,2-Dichloroethene	1.61		0.152	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 14:03	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 14:03	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 14:03	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 14:03	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Methylene Chloride	U		1.07	2.50	1	07/18/2019 14:03	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 14:03	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Tetrachloroethene	159		0.199	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Toluene	U		0.412	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Trichloroethene	84.1		3.06	10.0	20	07/20/2019 23:14	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Vinyl chloride	0.296	<u>J</u>	0.118	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 14:03	<a href="#">WG1313581</a>
(S) Toluene-d8	109			80.0-120		07/18/2019 14:03	<a href="#">WG1313581</a>
(S) Toluene-d8	110			80.0-120		07/20/2019 23:14	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	106			77.0-126		07/18/2019 14:03	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	96.9			77.0-126		07/20/2019 23:14	<a href="#">WG1314393</a>

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	109			70.0-130		07/18/2019 14:03	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/20/2019 23:14	<a href="#">WG1314393</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	112000		2710	20000	1	07/22/2019 12:33	<a href="#">WG1315264</a>

Sample Narrative:

L1119161-02 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	8610		51.9	1000	1	07/17/2019 18:59	<a href="#">WG1312677</a>
Nitrate	U		22.7	100	1	07/17/2019 18:59	<a href="#">WG1312677</a>
Sulfate	17100		77.4	5000	1	07/17/2019 18:59	<a href="#">WG1312677</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6120		102	1000	1	07/17/2019 23:13	<a href="#">WG1312820</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1280		15.0	100	1	07/22/2019 11:18	<a href="#">WG1313436</a>
Manganese	154		0.250	5.00	1	07/22/2019 11:18	<a href="#">WG1313436</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	31.7	<u>B</u>	31.6	100	1	07/18/2019 18:12	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 18:12	<a href="#">WG1313748</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	149		0.287	0.678	1	07/23/2019 13:52	<a href="#">WG1315671</a>
Ethane	3.81		0.296	1.29	1	07/23/2019 13:52	<a href="#">WG1315671</a>
Ethene	U		0.422	1.27	1	07/23/2019 13:52	<a href="#">WG1315671</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.24	<u>B</u>	1.05	25.0	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 14:25	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/18/2019 14:25	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 14:25	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 14:25	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 14:25	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 14:25	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 14:25	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 14:25	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 14:25	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 14:25	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 14:25	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 14:25	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 14:25	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 14:25	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 14:25	WG1313581
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 23:33	WG1314393
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 14:25	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 14:25	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 14:25	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 14:25	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 14:25	WG1313581
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/18/2019 14:25	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 14:25	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 14:25	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 14:25	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 14:25	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 14:25	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 14:25	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 14:25	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 14:25	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 14:25	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 14:25	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 14:25	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 14:25	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 14:25	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 14:25	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 14:25	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 14:25	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 14:25	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 14:25	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 14:25	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 23:33	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 14:25	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 14:25	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 14:25	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 14:25	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 14:25	WG1313581
Trichloroethene	U		0.153	0.500	1	07/20/2019 23:33	WG1314393
Trichlorofluoromethane	U	JO	0.130	2.50	1	07/18/2019 14:25	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 14:25	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 14:25	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 14:25	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 14:25	WG1313581

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Vinyl chloride	U		0.118	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 14:25	<a href="#">WG1313581</a>
(S) Toluene-d8	105			80.0-120		07/18/2019 14:25	<a href="#">WG1313581</a>
(S) Toluene-d8	111			80.0-120		07/20/2019 23:33	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/18/2019 14:25	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/20/2019 23:33	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/18/2019 14:25	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/20/2019 23:33	<a href="#">WG1314393</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	529000		2710	20000	1	07/22/2019 12:40	<a href="#">WG1315264</a>

Sample Narrative:

L1119161-03 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	13400		51.9	1000	1	07/17/2019 19:49	<a href="#">WG1312677</a>
Nitrate	U		22.7	100	1	07/17/2019 19:49	<a href="#">WG1312677</a>
Sulfate	U		77.4	5000	1	07/17/2019 19:49	<a href="#">WG1312677</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	8290		102	1000	1	07/17/2019 23:41	<a href="#">WG1312820</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	17100		150	1000	10	07/22/2019 13:07	<a href="#">WG1313436</a>
Manganese	2480		5.00	100	20	07/22/2019 13:47	<a href="#">WG1313436</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	16100		2.87	6.78	10	07/23/2019 17:16	<a href="#">WG1316246</a>
Ethane	U		0.296	1.29	1	07/23/2019 13:59	<a href="#">WG1315671</a>
Ethene	U		0.422	1.27	1	07/23/2019 13:59	<a href="#">WG1315671</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.32	<b>B J</b>	1.05	25.0	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 14:46	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 14:46	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 23:53	<a href="#">WG1314393</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 14:46	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 14:46	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 14:46	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 14:46	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Methylene Chloride	U		1.07	2.50	1	07/18/2019 14:46	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Naphthalene	0.189	<u>J</u>	0.174	2.50	1	07/18/2019 14:46	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 23:53	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Vinyl chloride	U		0.118	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 14:46	<a href="#">WG1313581</a>
(S) Toluene-d8	109			80.0-120		07/18/2019 14:46	<a href="#">WG1313581</a>
(S) Toluene-d8	111			80.0-120		07/20/2019 23:53	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/18/2019 14:46	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/20/2019 23:53	<a href="#">WG1314393</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/18/2019 14:46	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/20/2019 23:53	<a href="#">WG1314393</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	340000		2710	20000	1	07/22/2019 13:09	<a href="#">WG1315264</a>

Sample Narrative:

L119161-04 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	27100		51.9	1000	1	07/17/2019 20:05	<a href="#">WG1312677</a>
Nitrate	U		22.7	100	1	07/17/2019 20:05	<a href="#">WG1312677</a>
Sulfate	36100		77.4	5000	1	07/17/2019 20:05	<a href="#">WG1312677</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6600		102	1000	1	07/17/2019 23:55	<a href="#">WG1312820</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7510		75.0	500	5	07/22/2019 13:11	<a href="#">WG1313436</a>
Manganese	432		1.25	25.0	5	07/22/2019 13:11	<a href="#">WG1313436</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4550		0.287	0.678	1	07/23/2019 14:05	<a href="#">WG1315671</a>
Ethane	15.0		0.296	1.29	1	07/23/2019 14:05	<a href="#">WG1315671</a>
Ethene	11.5		0.422	1.27	1	07/23/2019 14:05	<a href="#">WG1315671</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.77	<u>B J</u>	1.05	25.0	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 15:08	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 15:08	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	1.37		0.0933	0.500	1	07/21/2019 00:13	<a href="#">WG1314393</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 15:08	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 15:08	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 15:08	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 15:08	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Methylene Chloride	U		1.07	2.50	1	07/18/2019 15:08	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 15:08	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Toluene	U		0.412	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Vinyl chloride	46.4		0.118	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 15:08	<a href="#">WG1313581</a>
(S) Toluene-d8	107			80.0-120		07/18/2019 15:08	<a href="#">WG1313581</a>
(S) Toluene-d8	113			80.0-120		07/21/2019 00:13	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/18/2019 15:08	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/21/2019 00:13	<a href="#">WG1314393</a>

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/18/2019 15:08	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/21/2019 00:13	<a href="#">WG1314393</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/16/19 00:00

L1119161

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	35.3	<u>B</u>	31.6	100	1	07/18/2019 15:37	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		07/18/2019 15:37	<a href="#">WG1313748</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.41	<u>B</u>	1.05	25.0	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 12:58	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Toluene	U		0.412	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Vinyl chloride	U		0.118	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/18/2019 12:58	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/18/2019 12:58	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/18/2019 12:58	<a href="#">WG1313581</a>

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





Method Blank (MB)

(MB) R3433012-1 07/22/19 11:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	3000	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1119200-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1119200-01 07/22/19 12:47 • (DUP) R3433012-2 07/22/19 12:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	1650000	1660000	1	0.247		20

Sample Narrative:

OS: Endpoint pH 4.5  
DUP: Endpoint pH 4.5

L1120696-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1120696-01 07/22/19 14:36 • (DUP) R3433012-4 07/22/19 14:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	82700	82100	1	0.740		20

Sample Narrative:

OS: Endpoint pH 4.5  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3433012-3 07/22/19 13:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	107000	107	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3431615-1 07/17/19 09:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	289	↓	51.9	1000
Nitrate	U		22.7	100
Sulfate	312	↓	77.4	5000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1119086-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1119086-02 07/17/19 11:20 • (DUP) R3431615-3 07/17/19 11:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	10600	10600	1	0.0839		15
Nitrate	3110	3080	1	0.785		15

L1119086-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1119086-02 07/17/19 11:53 • (DUP) R3431615-4 07/17/19 12:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	197000	196000	5	0.215		15

L1119171-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1119171-08 07/17/19 20:21 • (DUP) R3431615-7 07/17/19 20:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	19900	19800	1	0.325		15
Nitrate	1760	1760	1	0.0341		15
Sulfate	67100	66900	1	0.218		15

Laboratory Control Sample (LCS)

(LCS) R3431615-2 07/17/19 09:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	39400	98.6	80.0-120	
Nitrate	8000	8140	102	80.0-120	
Sulfate	40000	39100	97.9	80.0-120	



L1119086-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119086-03 07/17/19 12:25 • (MS) R3431615-5 07/17/19 12:42 • (MSD) R3431615-6 07/17/19 12:58

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	33600	84200	84100	101	101	1	80.0-120			0.0534	15
Nitrate	5000	6710	11300	11300	91.6	91.6	1	80.0-120	<u>E</u>	<u>E</u>	0.0106	15
Sulfate	50000	347000	382000	382000	68.5	69.0	1	80.0-120	<u>E V</u>	<u>E V</u>	0.0655	15

L1119171-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1119171-08 07/17/19 20:21 • (MS) R3431615-8 07/17/19 20:54

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	19900	71600	103	1	80.0-120	
Nitrate	5000	1760	7060	106	1	80.0-120	
Sulfate	50000	67100	118000	102	1	80.0-120	<u>E</u>

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



Method Blank (MB)

(MB) R3431810-1 07/17/19 14:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	284	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1118699-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1118699-05 07/17/19 19:38 • (DUP) R3431810-6 07/17/19 19:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	1580	1600	1	1.76		20

L1119161-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1119161-02 07/17/19 23:13 • (DUP) R3431810-9 07/17/19 23:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	6120	6180	1	1.06		20

Laboratory Control Sample (LCS)

(LCS) R3431810-2 07/17/19 15:04

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	75000	75500	101	85.0-115	

L1118633-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1118633-04 07/17/19 16:00 • (MS) R3431810-4 07/17/19 17:12 • (MSD) R3431810-5 07/17/19 17:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	50000	7950	57100	56300	98.2	96.7	1	80.0-120			1.34	20

L1118705-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1118705-01 07/17/19 20:16 • (MS) R3431810-10 07/18/19 08:44 • (MSD) R3431810-11 07/18/19 09:00

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	50000	1400	55600	55400	108	108	1	80.0-120			0.288	20



Method Blank (MB)

(MB) R3432889-1 07/22/19 10:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	16.9	<u>J</u>	15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432889-2 07/22/19 10:51 • (LCSD) R3432889-3 07/22/19 10:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	4920	4940	98.4	98.8	80.0-120			0.375	20
Manganese	50.0	49.1	48.9	98.1	97.8	80.0-120			0.372	20

5 Sr

6 Qc

L1119161-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119161-01 07/22/19 10:58 • (MS) R3432889-5 07/22/19 11:04 • (MSD) R3432889-6 07/22/19 11:08

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	3470	8280	8260	96.2	95.7	1	75.0-125			0.322	20
Manganese	50.0	370	421	406	101	71.4	1	75.0-125		<u>V</u>	3.59	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3432675-1 07/18/19 12:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	36.8	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3432675-2 07/18/19 14:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5660	103	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			106	78.0-120	

L1119004-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119004-03 07/18/19 16:21 • (MS) R3432675-3 07/18/19 22:17 • (MSD) R3432675-4 07/18/19 23:29

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	46.6	3100	3280	55.4	58.9	1	10.0-155			5.93	21
(S) a,a,a-Trifluorotoluene(FID)					103	103		78.0-120				



Method Blank (MB)

(MB) R3433363-1 07/23/19 12:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1119205-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1119205-01 07/23/19 13:07 • (DUP) R3433363-2 07/23/19 13:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1119221-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1119221-04 07/23/19 14:19 • (DUP) R3433363-3 07/23/19 14:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	2920	2950	1	0.951		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433363-4 07/23/19 14:48 • (LCSD) R3433363-5 07/23/19 14:52

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	71.8	73.5	106	108	85.0-115			2.35	20
Ethane	129	118	119	91.1	92.3	85.0-115			1.27	20
Ethene	127	118	118	92.6	92.7	85.0-115			0.118	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3433456-1 07/23/19 17:14

Analyte	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Methane	U		0.287	0.678

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433456-2 07/23/19 17:38 • (LCSD) R3433456-3 07/23/19 17:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Methane	67.8	72.4	71.7	107	106	85.0-115			0.886	20

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3432355-3 07/18/19 11:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	1.34	U	1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3432355-3 07/18/19 11:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	0.263	U	0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	109			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	102			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432355-1 07/18/19 09:04 • (LCSD) R3432355-2 07/18/19 09:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	135	133	108	107	19.0-160			1.03	27
Acrylonitrile	125	137	138	110	111	55.0-149			1.08	20
Benzene	25.0	24.0	24.1	96.0	96.5	70.0-123			0.454	20
Bromobenzene	25.0	23.3	23.3	93.2	93.1	73.0-121			0.148	20
Bromodichloromethane	25.0	25.5	25.2	102	101	75.0-120			1.36	20
Bromochloromethane	25.0	26.0	25.4	104	102	76.0-122			2.29	20
Bromoform	25.0	23.4	24.1	93.4	96.3	68.0-132			3.08	20
Bromomethane	25.0	23.8	23.8	95.4	95.1	10.0-160			0.261	25
n-Butylbenzene	25.0	26.6	26.8	106	107	73.0-125			0.918	20
sec-Butylbenzene	25.0	25.7	26.2	103	105	75.0-125			2.24	20
tert-Butylbenzene	25.0	25.6	25.6	102	103	76.0-124			0.0882	20
Carbon disulfide	25.0	24.4	24.3	97.4	97.0	61.0-128			0.411	20
Carbon tetrachloride	25.0	26.5	28.4	106	114	68.0-126			6.90	20
Chlorobenzene	25.0	25.4	25.7	101	103	80.0-121			1.41	20
Chlorodibromomethane	25.0	26.4	26.9	106	108	77.0-125			1.87	20
Chloroethane	25.0	23.8	24.0	95.1	96.1	47.0-150			1.07	20
Chloroform	25.0	24.1	23.8	96.3	95.3	73.0-120			1.05	20
Chloromethane	25.0	23.1	22.7	92.4	90.9	41.0-142			1.64	20
2-Chlorotoluene	25.0	24.6	24.4	98.5	97.6	76.0-123			0.890	20
4-Chlorotoluene	25.0	25.4	24.5	101	97.8	75.0-122			3.62	20
1,2-Dibromo-3-Chloropropane	25.0	25.6	25.9	102	104	58.0-134			1.27	20
1,2-Dibromoethane	25.0	26.0	27.1	104	108	80.0-122			4.10	20
Dibromomethane	25.0	26.0	26.3	104	105	80.0-120			0.939	20
1,2-Dichlorobenzene	25.0	24.5	24.8	98.1	99.3	79.0-121			1.27	20
1,3-Dichlorobenzene	25.0	25.3	25.2	101	101	79.0-120			0.288	20
1,4-Dichlorobenzene	25.0	24.7	24.5	98.6	98.1	79.0-120			0.525	20
Dichlorodifluoromethane	25.0	24.4	23.8	97.6	95.4	51.0-149			2.34	20
1,1-Dichloroethane	25.0	25.5	25.0	102	99.8	70.0-126			2.13	20
1,2-Dichloroethane	25.0	25.1	25.0	101	99.9	70.0-128			0.617	20
1,1-Dichloroethene	25.0	25.3	25.6	101	102	71.0-124			0.989	20
cis-1,2-Dichloroethene	25.0	24.5	24.5	97.8	97.9	73.0-120			0.117	20
trans-1,2-Dichloroethene	25.0	24.5	25.3	97.9	101	73.0-120			3.20	20
1,2-Dichloropropane	25.0	25.5	25.2	102	101	77.0-125			1.44	20
1,1-Dichloropropene	25.0	25.5	24.7	102	98.6	74.0-126			3.56	20
1,3-Dichloropropane	25.0	25.6	25.6	102	103	80.0-120			0.304	20
cis-1,3-Dichloropropene	25.0	26.5	26.4	106	105	80.0-123			0.411	20
trans-1,3-Dichloropropene	25.0	26.1	26.6	105	107	78.0-124			1.88	20
trans-1,4-Dichloro-2-butene	25.0	18.9	19.4	75.6	77.6	33.0-144			2.58	20
2,2-Dichloropropane	25.0	25.3	26.0	101	104	58.0-130			2.42	20
Di-isopropyl ether	25.0	25.0	25.2	99.9	101	58.0-138			0.986	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432355-1 07/18/19 09:04 • (LCSD) R3432355-2 07/18/19 09:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	24.6	25.3	98.3	101	79.0-123			3.04	20
Hexachloro-1,3-butadiene	25.0	24.9	25.7	99.6	103	54.0-138			3.12	20
2-Hexanone	125	137	138	109	111	67.0-149			1.31	20
n-Hexane	25.0	27.4	27.9	109	111	57.0-133			1.77	20
Iodomethane	125	121	120	97.0	96.1	33.0-147			0.880	26
Isopropylbenzene	25.0	25.2	26.3	101	105	76.0-127			4.22	20
p-Isopropyltoluene	25.0	26.4	26.6	106	106	76.0-125			0.627	20
2-Butanone (MEK)	125	134	133	107	106	44.0-160			0.335	20
Methylene Chloride	25.0	25.1	24.7	100	98.8	67.0-120			1.51	20
4-Methyl-2-pentanone (MIBK)	125	127	130	102	104	68.0-142			2.15	20
Methyl tert-butyl ether	25.0	25.5	25.4	102	102	68.0-125			0.0121	20
Naphthalene	25.0	25.8	26.8	103	107	54.0-135			3.92	20
n-Propylbenzene	25.0	25.0	25.0	100	99.9	77.0-124			0.299	20
Styrene	25.0	26.7	27.0	107	108	73.0-130			1.15	20
1,1,1,2-Tetrachloroethane	25.0	26.1	27.1	104	108	75.0-125			3.69	20
1,1,2,2-Tetrachloroethane	25.0	26.7	26.6	107	106	65.0-130			0.380	20
1,1,2-Trichlorotrifluoroethane	25.0	22.9	23.0	91.4	91.9	69.0-132			0.498	20
Tetrachloroethene	25.0	25.3	25.3	101	101	72.0-132			0.180	20
Toluene	25.0	24.1	24.4	96.4	97.5	79.0-120			1.09	20
1,2,3-Trichlorobenzene	25.0	25.2	25.2	101	101	50.0-138			0.101	20
1,2,4-Trichlorobenzene	25.0	26.2	26.1	105	105	57.0-137			0.128	20
1,1,1-Trichloroethane	25.0	25.3	25.0	101	100	73.0-124			1.02	20
1,1,2-Trichloroethane	25.0	26.3	27.0	105	108	80.0-120			2.93	20
Trichloroethene	25.0	23.6	23.4	94.4	93.8	78.0-124			0.621	20
Trichlorofluoromethane	25.0	19.0	19.5	76.1	78.2	59.0-147			2.71	20
1,2,3-Trichloropropane	25.0	25.5	25.8	102	103	73.0-130			1.19	20
1,2,4-Trimethylbenzene	25.0	24.8	25.1	99.2	101	76.0-121			1.40	20
1,2,3-Trimethylbenzene	25.0	24.8	24.9	99.1	99.5	77.0-120			0.404	20
1,3,5-Trimethylbenzene	25.0	24.2	24.1	96.6	96.4	76.0-122			0.243	20
Vinyl acetate	125	148	143	119	114	11.0-160			3.81	20
Vinyl chloride	25.0	25.3	25.2	101	101	67.0-131			0.218	20
Xylenes, Total	75.0	73.2	75.4	97.6	101	79.0-123			2.96	20
(S) Toluene-d8				107	109	80.0-120				
(S) 4-Bromofluorobenzene				103	106	77.0-126				
(S) 1,2-Dichloroethane-d4				105	105	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3433434-2 07/20/19 21:20

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
(S) Toluene-d8	111			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	108			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3433434-1 07/20/19 20:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	25.0	24.1	96.6	73.0-120	
Tetrachloroethene	25.0	27.8	111	72.0-132	
Trichloroethene	25.0	25.1	100	78.0-124	
(S) Toluene-d8			107	80.0-120	
(S) 4-Bromofluorobenzene			103	77.0-126	
(S) 1,2-Dichloroethane-d4			106	70.0-130	

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
V	The sample concentration is too high to evaluate accurate spike recoveries.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

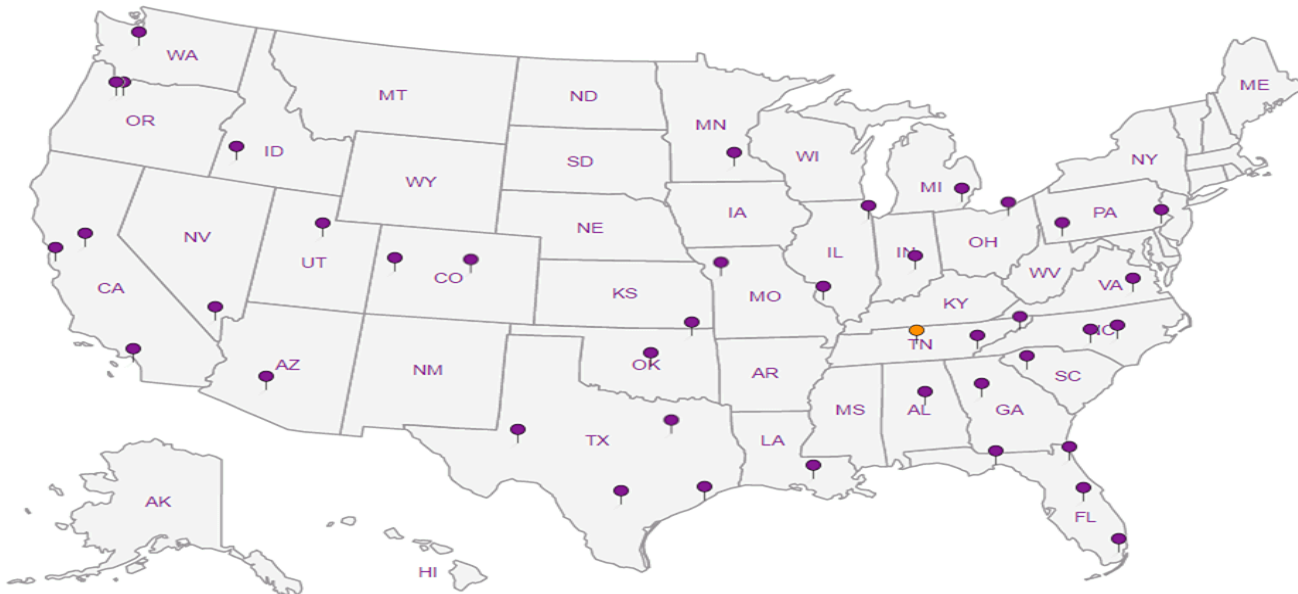
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com; **KVEIC@PESENV.COM**

Project Description: **American Linn**

City/State Collected: **Seattle, WA**

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
**1413.001-05.601**

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
**Ben Hecht**

Site/Facility ID #  
**American Linn**

P.O. #

Collected by (signature):

**Rush?** (Lab MUST Be Notified)

Quote #

Same Day Five Day  
Next Day 5 Day (Rad Only)  
Two Day 10 Day (Rad Only)  
Three Day

Date Results Needed

**Standard**

No. of Cntrs

Immediately Packed on Ice N  Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,Cl, SO4* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3 12	VOCs 8260LLC 40mlAmb-HCl
FMW-129-071619	Grab	GW	86.5	7/16/19	1115	9	X	X	X	X	X	X	X
MW112-071619		GW	80		1205	12	X	X	X	X	X	X	X
GEI-1-071619		GW	31		1345	9	X	X	X	X	X	X	X
GEI-2-071619		GW	55.5		1455	9	X	X	X	X	X	X	X
FRIP-071619	-	GW	-	7/16/19	-	1			X				X
		GW											
		GW											
		GW											
		GW											
		GW											



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



I # **6119161**  
**C155**

Acctnum: **PESENVSWA**  
Template: **T152679**  
Prelogin: **P718645**  
TSR: **110 - Brian Ford**  
PB: **7-5-19 ES**

Shipped Via: **FedEX Ground**

Remarks	Sample # (lab only)
	-01
	-02
	-03
	-04
	-05

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks: \*Nitrate has a 48 hour holding time.

**Tier 2 lab QA/QC**

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist  
COC Seal Present/Intact:  NP  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VOA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **Fedex 1082 5988 5572**

Relinquished by: (Signature) **[Signature]**

Date: **7/16/19** Time: **1700**

Received by: (Signature) \_\_\_\_\_

Trip Blank Received:  Yes  No  
HCL/MeOH TBR

**RAD SCREEN: <0.5 mR/hr**

Relinquished by: (Signature) \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_

Temp: **A30F °C**  
**1.9 ± .1 = 1.8** Bottles Received: **39**

If preservation required by Login: Date/Time

Relinquished by: (Signature) \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature) **[Signature]**

Date: **7/17/19** Time: **8:45**

Hold: \_\_\_\_\_ Condition: **NCF / OK**





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	221000		2710	20000	1	07/22/2019 12:26	<a href="#">WG1315264</a>

Sample Narrative:

L1119161-01 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	23700		51.9	1000	1	07/17/2019 18:43	<a href="#">WG1312677</a>
Nitrate	771		22.7	100	1	07/17/2019 18:43	<a href="#">WG1312677</a>
Sulfate	86800		77.4	5000	1	07/17/2019 18:43	<a href="#">WG1312677</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2230	<del>B</del>	102	1000	1	07/17/2019 23:00	<a href="#">WG1312820</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4600		75.0	500	5	07/22/2019 13:04	<a href="#">WG1313436</a>
Manganese	415	<del>V</del>	1.25	25.0	5	07/22/2019 13:04	<a href="#">WG1313436</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	40.5		0.287	0.678	1	07/23/2019 13:32	<a href="#">WG1315671</a>
Ethane	6.45		0.296	1.29	1	07/23/2019 13:32	<a href="#">WG1315671</a>
Ethene	U		0.422	1.27	1	07/23/2019 13:32	<a href="#">WG1315671</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.75	U <del>BJ</del>	1.05	25.0	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 14:03	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 14:03	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 14:03	<a href="#">WG1313581</a>

JC 8/5/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 14:03	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 14:03	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 14:03	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 14:03	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 14:03	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 14:03	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 14:03	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 14:03	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 14:03	WG1313581
1,1-Dichloroethene	1.69		0.188	0.500	1	07/18/2019 14:03	WG1313581
cis-1,2-Dichloroethene	272		1.87	10.0	20	07/20/2019 23:14	WG1314393
trans-1,2-Dichloroethene	1.61		0.152	0.500	1	07/18/2019 14:03	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 14:03	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 14:03	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 14:03	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 14:03	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 14:03	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/18/2019 14:03	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 14:03	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 14:03	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 14:03	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 14:03	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 14:03	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 14:03	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 14:03	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 14:03	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 14:03	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 14:03	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 14:03	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 14:03	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 14:03	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 14:03	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 14:03	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 14:03	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 14:03	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 14:03	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 14:03	WG1313581
Tetrachloroethene	159		0.199	0.500	1	07/18/2019 14:03	WG1313581
Toluene	U		0.412	0.500	1	07/18/2019 14:03	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 14:03	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 14:03	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 14:03	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 14:03	WG1313581
Trichloroethene	84.1		3.06	10.0	20	07/20/2019 23:14	WG1314393
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 14:03	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 14:03	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 14:03	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 14:03	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 14:03	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 14:03	WG1313581
Vinyl chloride	0.296	J J	0.118	0.500	1	07/18/2019 14:03	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 14:03	WG1313581
(S) Toluene-d8	109			80.0-120		07/18/2019 14:03	WG1313581
(S) Toluene-d8	110			80.0-120		07/20/2019 23:14	WG1314393
(S) 4-Bromofluorobenzene	106			77.0-126		07/18/2019 14:03	WG1313581
(S) 4-Bromofluorobenzene	96.9			77.0-126		07/20/2019 23:14	WG1314393

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

JC 8/5/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	109			70.0-130		07/18/2019 14:03	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/20/2019 23:14	<a href="#">WG1314393</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/5/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	112000		2710	20000	1	07/22/2019 12:33	<a href="#">WG1315264</a>

Sample Narrative:

L1119161-02 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	8610		51.9	1000	1	07/17/2019 18:59	<a href="#">WG1312677</a>
Nitrate	U		22.7	100	1	07/17/2019 18:59	<a href="#">WG1312677</a>
Sulfate	17100		77.4	5000	1	07/17/2019 18:59	<a href="#">WG1312677</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6120		102	1000	1	07/17/2019 23:13	<a href="#">WG1312820</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1280		15.0	100	1	07/22/2019 11:18	<a href="#">WG1313436</a>
Manganese	154		0.250	5.00	1	07/22/2019 11:18	<a href="#">WG1313436</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	31.7	U <del>BJ</del>	31.6	100	1	07/18/2019 18:12	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 18:12	<a href="#">WG1313748</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	149		0.287	0.678	1	07/23/2019 13:52	<a href="#">WG1315671</a>
Ethane	3.81		0.296	1.29	1	07/23/2019 13:52	<a href="#">WG1315671</a>
Ethene	U		0.422	1.27	1	07/23/2019 13:52	<a href="#">WG1315671</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.24	U <del>BJ</del>	1.05	25.0	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 14:25	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>

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

JC 8/5/19



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	07/18/2019 14:25	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 14:25	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 14:25	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 14:25	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 14:25	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 14:25	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 14:25	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 14:25	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 14:25	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 14:25	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 14:25	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 14:25	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 14:25	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 14:25	WG1313581
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 23:33	WG1314393
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 14:25	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 14:25	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 14:25	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 14:25	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 14:25	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 14:25	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/18/2019 14:25	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 14:25	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 14:25	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 14:25	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 14:25	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 14:25	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 14:25	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 14:25	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 14:25	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 14:25	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 14:25	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 14:25	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 14:25	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 14:25	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 14:25	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 14:25	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 14:25	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 14:25	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 14:25	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 14:25	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 23:33	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 14:25	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 14:25	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 14:25	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 14:25	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 14:25	WG1313581
Trichloroethene	U		0.153	0.500	1	07/20/2019 23:33	WG1314393
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 14:25	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 14:25	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 14:25	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 14:25	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 14:25	WG1313581

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

JC 8/5/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Vinyl chloride	U		0.118	0.500	1	07/18/2019 14:25	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 14:25	<a href="#">WG1313581</a>
(S) Toluene-d8	105			80.0-120		07/18/2019 14:25	<a href="#">WG1313581</a>
(S) Toluene-d8	111			80.0-120		07/20/2019 23:33	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/18/2019 14:25	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/20/2019 23:33	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/18/2019 14:25	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/20/2019 23:33	<a href="#">WG1314393</a>

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

JC 8/5/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	529000		2710	20000	1	07/22/2019 12:40	<a href="#">WG1315264</a>

Sample Narrative:

L119161-03 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	13400		51.9	1000	1	07/17/2019 19:49	<a href="#">WG1312677</a>
Nitrate	U		22.7	100	1	07/17/2019 19:49	<a href="#">WG1312677</a>
Sulfate	U		77.4	5000	1	07/17/2019 19:49	<a href="#">WG1312677</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	8290		102	1000	1	07/17/2019 23:41	<a href="#">WG1312820</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	17100		150	1000	10	07/22/2019 13:07	<a href="#">WG1313436</a>
Manganese	2480		5.00	100	20	07/22/2019 13:47	<a href="#">WG1313436</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	16100		2.87	6.78	10	07/23/2019 17:16	<a href="#">WG1316246</a>
Ethane	U		0.296	1.29	1	07/23/2019 13:59	<a href="#">WG1315671</a>
Ethene	U		0.422	1.27	1	07/23/2019 13:59	<a href="#">WG1315671</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.32	U	1.05	25.0	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 14:46	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 14:46	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 14:46	<a href="#">WG1313581</a>

JC 8/5/19

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 14:46	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 14:46	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 14:46	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 14:46	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 14:46	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 14:46	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 14:46	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 14:46	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 14:46	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 14:46	WG1313581
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 23:53	WG1314393
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 14:46	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 14:46	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 14:46	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 14:46	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 14:46	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 14:46	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/18/2019 14:46	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 14:46	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 14:46	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 14:46	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 14:46	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 14:46	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 14:46	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 14:46	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 14:46	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 14:46	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 14:46	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 14:46	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 14:46	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 14:46	WG1313581
Naphthalene	0.189	J U	0.174	2.50	1	07/18/2019 14:46	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 14:46	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 14:46	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 14:46	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 14:46	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 14:46	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 23:53	WG1314393
Toluene	U		0.412	0.500	1	07/18/2019 14:46	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 14:46	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 14:46	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 14:46	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 14:46	WG1313581
Trichloroethene	U		0.153	0.500	1	07/18/2019 14:46	WG1313581
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 14:46	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 14:46	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 14:46	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 14:46	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 14:46	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 14:46	WG1313581
Vinyl chloride	U		0.118	0.500	1	07/18/2019 14:46	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 14:46	WG1313581
(S) Toluene-d8	109			80.0-120		07/18/2019 14:46	WG1313581
(S) Toluene-d8	111			80.0-120		07/20/2019 23:53	WG1314393
(S) 4-Bromofluorobenzene	104			77.0-126		07/18/2019 14:46	WG1313581
(S) 4-Bromofluorobenzene	104			77.0-126		07/20/2019 23:53	WG1314393

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

JC 8/5/19





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/18/2019 14:46	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/20/2019 23:53	<a href="#">WG1314393</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/5/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	340000		2710	20000	1	07/22/2019 13:09	<a href="#">WG1315264</a>

Sample Narrative:

L119161-04 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	27100		51.9	1000	1	07/17/2019 20:05	<a href="#">WG1312677</a>
Nitrate	U		22.7	100	1	07/17/2019 20:05	<a href="#">WG1312677</a>
Sulfate	36100		77.4	5000	1	07/17/2019 20:05	<a href="#">WG1312677</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6600		102	1000	1	07/17/2019 23:55	<a href="#">WG1312820</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7510		75.0	500	5	07/22/2019 13:11	<a href="#">WG1313436</a>
Manganese	432		1.25	25.0	5	07/22/2019 13:11	<a href="#">WG1313436</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4550		0.287	0.678	1	07/23/2019 14:05	<a href="#">WG1315671</a>
Ethane	15.0		0.296	1.29	1	07/23/2019 14:05	<a href="#">WG1315671</a>
Ethene	11.5		0.422	1.27	1	07/23/2019 14:05	<a href="#">WG1315671</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.77	U <del>BL</del>	1.05	25.0	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 15:08	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 15:08	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 15:08	<a href="#">WG1313581</a>

JC 8/5/19

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



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 15:08	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 15:08	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 15:08	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 15:08	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 15:08	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 15:08	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 15:08	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 15:08	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 15:08	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 15:08	WG1313581
cis-1,2-Dichloroethene	1.37		0.0933	0.500	1	07/21/2019 00:13	WG1314393
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 15:08	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 15:08	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 15:08	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 15:08	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 15:08	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 15:08	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/18/2019 15:08	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 15:08	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 15:08	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 15:08	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 15:08	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 15:08	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 15:08	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 15:08	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 15:08	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 15:08	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 15:08	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 15:08	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 15:08	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 15:08	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 15:08	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 15:08	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 15:08	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 15:08	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 15:08	WG1313581
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 15:08	WG1313581
Tetrachloroethene	U		0.199	0.500	1	07/18/2019 15:08	WG1313581
Toluene	U		0.412	0.500	1	07/18/2019 15:08	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 15:08	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 15:08	WG1313581
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 15:08	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 15:08	WG1313581
Trichloroethene	U		0.153	0.500	1	07/18/2019 15:08	WG1313581
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 15:08	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 15:08	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 15:08	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 15:08	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 15:08	WG1313581
Vinyl acetate	U		0.645	5.00	1	07/18/2019 15:08	WG1313581
Vinyl chloride	46.4		0.118	0.500	1	07/18/2019 15:08	WG1313581
Xylenes, Total	U		0.316	1.50	1	07/18/2019 15:08	WG1313581
(S) Toluene-d8	107			80.0-120		07/18/2019 15:08	WG1313581
(S) Toluene-d8	113			80.0-120		07/21/2019 00:13	WG1314393
(S) 4-Bromofluorobenzene	101			77.0-126		07/18/2019 15:08	WG1313581
(S) 4-Bromofluorobenzene	101			77.0-126		07/21/2019 00:13	WG1314393

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
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JC 8/5/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/18/2019 15:08	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/21/2019 00:13	<a href="#">WG1314393</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/5/19



Collected date/time: 07/16/19 00:00

L1119161

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	35.3	<u>B</u> <u>J</u>	31.6	100	1	07/18/2019 15:37	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		07/18/2019 15:37	<a href="#">WG1313748</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.41	<u>B</u> <u>J</u>	1.05	25.0	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 12:58	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>U</u> <u>J</u> <u>J</u> <u>O</u>	0.257	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/5/19



Collected date/time: 07/16/19 00:00

L1119161

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Toluene	U		0.412	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Vinyl chloride	U		0.118	0.500	1	07/18/2019 12:58	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 12:58	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/18/2019 12:58	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/18/2019 12:58	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/18/2019 12:58	<a href="#">WG1313581</a>

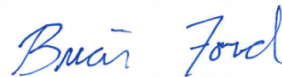
- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 8/5/19

## PES Environmental, Inc.- WA

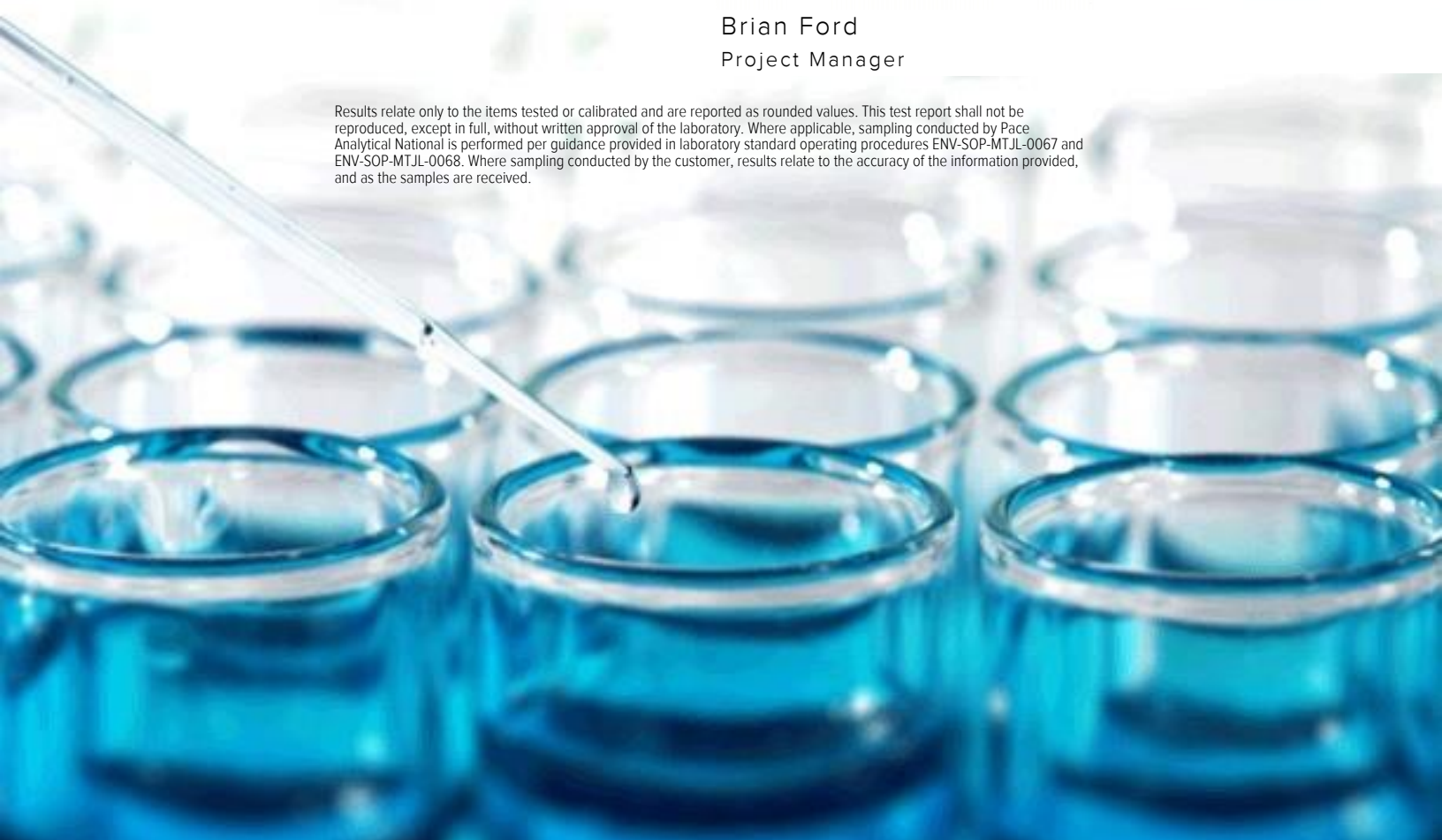
Sample Delivery Group: L1119171  
Samples Received: 07/17/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





<b>Cp: Cover Page</b>	<b>1</b>
<b>Tc: Table of Contents</b>	<b>2</b>
<b>Ss: Sample Summary</b>	<b>3</b>
<b>Cn: Case Narrative</b>	<b>5</b>
<b>Sr: Sample Results</b>	<b>6</b>
MW-110-071519 L1119171-01	6
MW-111-071519 L1119171-02	8
MW-103-071519 L1119171-03	10
MW-109-071519 L1119171-04	12
MW-154-071519 L1119171-05	14
MW-108-071519 L1119171-06	16
MW-9-071619 L1119171-07	18
MW-120-071619 L1119171-08	20
R-MW5-071619 L1119171-09	23
TRIP-071619 L1119171-10	25
<b>Qc: Quality Control Summary</b>	<b>27</b>
Wet Chemistry by Method 2320 B-2011	27
Wet Chemistry by Method 9056A	28
Wet Chemistry by Method 9060A	30
Metals (ICPMS) by Method 6020B	31
Volatile Organic Compounds (GC) by Method NWTPHGX	32
Volatile Organic Compounds (GC) by Method RSK175	33
Volatile Organic Compounds (GC/MS) by Method 8260C	34
<b>Gl: Glossary of Terms</b>	<b>39</b>
<b>Al: Accreditations &amp; Locations</b>	<b>40</b>
<b>Sc: Sample Chain of Custody</b>	<b>41</b>

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



# SAMPLE SUMMARY



## MW-110-071519 L119171-01 GW

Collected by  
Ben Hecht  
Collected date/time  
07/15/19 09:55  
Received date/time  
07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 15:30	07/18/19 15:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314393	20	07/21/19 00:32	07/21/19 00:32	BMB	Mt. Juliet, TN

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-111-071519 L119171-02 GW

Collected by  
Ben Hecht  
Collected date/time  
07/15/19 12:20  
Received date/time  
07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 15:51	07/18/19 15:51	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314393	1	07/21/19 00:52	07/21/19 00:52	BMB	Mt. Juliet, TN

## MW-103-071519 L119171-03 GW

Collected by  
Ben Hecht  
Collected date/time  
07/15/19 12:45  
Received date/time  
07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 16:12	07/18/19 16:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314393	1	07/21/19 01:11	07/21/19 01:11	BMB	Mt. Juliet, TN

## MW-109-071519 L119171-04 GW

Collected by  
Ben Hecht  
Collected date/time  
07/15/19 13:45  
Received date/time  
07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 16:34	07/18/19 16:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314393	1	07/21/19 01:31	07/21/19 01:31	BMB	Mt. Juliet, TN

## MW-154-071519 L119171-05 GW

Collected by  
Ben Hecht  
Collected date/time  
07/15/19 14:40  
Received date/time  
07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1313748	1	07/18/19 18:35	07/18/19 18:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 17:52	07/18/19 17:52	BMB	Mt. Juliet, TN

## MW-108-071519 L119171-06 GW

Collected by  
Ben Hecht  
Collected date/time  
07/15/19 14:45  
Received date/time  
07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 18:14	07/18/19 18:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314393	25	07/21/19 02:10	07/21/19 02:10	BMB	Mt. Juliet, TN

## MW-9-071619 L119171-07 GW

Collected by  
Ben Hecht  
Collected date/time  
07/16/19 08:35  
Received date/time  
07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1313748	1	07/18/19 18:57	07/18/19 18:57	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 18:36	07/18/19 18:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314393	1	07/21/19 02:29	07/21/19 02:29	BMB	Mt. Juliet, TN

# SAMPLE SUMMARY

## MW-120-071619 L1119171-08 GW

Collected by: Ben Hecht  
 Collected date/time: 07/16/19 08:45  
 Received date/time: 07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315264	1	07/22/19 13:16	07/22/19 13:16	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1312677	1	07/17/19 20:21	07/17/19 20:21	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1313391	1	07/18/19 13:36	07/18/19 13:36	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1312768	5	07/17/19 14:21	07/17/19 20:48	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1313748	1	07/18/19 19:19	07/18/19 19:19	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1315671	1	07/23/19 14:08	07/23/19 14:08	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 18:58	07/18/19 18:58	BMB	Mt. Juliet, TN

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

## R-MW5-071619 L1119171-09 GW

Collected by: Ben Hecht  
 Collected date/time: 07/16/19 10:10  
 Received date/time: 07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1313748	1	07/18/19 19:41	07/18/19 19:41	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 19:19	07/18/19 19:19	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314393	1	07/21/19 03:08	07/21/19 03:08	BMB	Mt. Juliet, TN

## TRIP-071619 L1119171-10 GW

Collected by: Ben Hecht  
 Collected date/time: 07/16/19 00:00  
 Received date/time: 07/17/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1313748	1	07/18/19 15:59	07/18/19 15:59	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1313581	1	07/18/19 13:20	07/18/19 13:20	BMB	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

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



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.38	<u>BJ</u>	1.05	25.0	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Benzene	0.285	<u>J</u>	0.0896	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 15:30	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,1-Dichloroethene	8.44		0.188	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	578		1.87	10.0	20	07/21/2019 00:32	<a href="#">WG1314393</a>
trans-1,2-Dichloroethene	5.87		0.152	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 15:30	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 15:30	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 15:30	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 15:30	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Methylene Chloride	U		1.07	2.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Tetrachloroethene	1220		3.98	10.0	20	07/21/2019 00:32	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Trichloroethene	455		3.06	10.0	20	07/21/2019 00:32	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Vinyl chloride	1.26		0.118	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/18/2019 15:30	<a href="#">WG1313581</a>
(S) Toluene-d8	112			80.0-120		07/21/2019 00:32	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/18/2019 15:30	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/21/2019 00:32	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/18/2019 15:30	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/21/2019 00:32	<a href="#">WG1314393</a>

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



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.55	<u>BJ</u>	1.05	25.0	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Chloroethane	0.275	<u>J</u>	0.141	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 15:51	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	0.596		0.0933	0.500	1	07/21/2019 00:52	<a href="#">WG1314393</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Methylene Chloride	U		1.07	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 00:52	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/21/2019 00:52	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Vinyl chloride	15.0		0.118	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/18/2019 15:51	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/21/2019 00:52	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/18/2019 15:51	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/21/2019 00:52	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/18/2019 15:51	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/21/2019 00:52	<a href="#">WG1314393</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
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- 6 Qc
- 7 Gl
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- 9 Sc



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.13	<u>BJ</u>	1.05	25.0	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 16:12	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,1-Dichloroethene	1.36		0.188	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	118		0.0933	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
trans-1,2-Dichloroethene	0.232	<u>J</u>	0.152	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 16:12	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 16:12	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 16:12	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 16:12	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Methylene Chloride	U		1.07	2.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 01:11	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Trichloroethene	2.37		0.153	0.500	1	07/21/2019 01:11	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Vinyl chloride	55.4		0.118	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
(S) Toluene-d8	107			80.0-120		07/18/2019 16:12	<a href="#">WG1313581</a>
(S) Toluene-d8	111			80.0-120		07/21/2019 01:11	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/18/2019 16:12	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/21/2019 01:11	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/18/2019 16:12	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/21/2019 01:11	<a href="#">WG1314393</a>

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



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.78	<u>BJ</u>	1.05	25.0	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 16:34	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	30.8		0.0933	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
trans-1,2-Dichloroethene	0.199	<u>J</u>	0.152	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 16:34	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 16:34	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 16:34	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 16:34	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Methylene Chloride	U		1.07	2.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 01:31	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Trichloroethene	0.265	<u>J</u>	0.153	0.500	1	07/21/2019 01:31	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Vinyl chloride	24.4		0.118	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
(S) Toluene-d8	110			80.0-120		07/18/2019 16:34	<a href="#">WG1313581</a>
(S) Toluene-d8	114			80.0-120		07/21/2019 01:31	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	107			77.0-126		07/18/2019 16:34	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/21/2019 01:31	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/18/2019 16:34	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/21/2019 01:31	<a href="#">WG1314393</a>

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



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	68.0	<u>B</u> <u>J</u>	31.6	100	1	07/18/2019 18:35	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 18:35	<a href="#">WG1313748</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.42	<u>B</u> <u>J</u>	1.05	25.0	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Chloromethane	0.161	<u>J</u>	0.153	1.25	1	07/18/2019 17:52	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	2.55		0.0933	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 17:52	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 17:52	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 17:52	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 17:52	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 17:52	<a href="#">WG1313581</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Tetrachloroethene	69.5		0.199	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Toluene	U		0.412	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Trichloroethene	5.75		0.153	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Vinyl chloride	0.211	<u>J</u>	0.118	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
(S) Toluene-d8	105			80.0-120		07/18/2019 17:52	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/18/2019 17:52	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/18/2019 17:52	<a href="#">WG1313581</a>

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



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.90	<u>BJ</u>	1.05	25.0	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Benzene	2.90		0.0896	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 18:14	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,1-Dichloroethene	4.09		0.188	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	918		2.33	12.5	25	07/21/2019 02:10	<a href="#">WG1314393</a>
trans-1,2-Dichloroethene	3.48		0.152	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 18:14	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 18:14	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 18:14	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 18:14	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Methylene Chloride	U		1.07	2.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Tetrachloroethene	567		4.98	12.5	25	07/21/2019 02:10	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Trichloroethene	189		0.153	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Vinyl chloride	197		0.118	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
(S) Toluene-d8	109			80.0-120		07/18/2019 18:14	<a href="#">WG1313581</a>
(S) Toluene-d8	116			80.0-120		07/21/2019 02:10	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/18/2019 18:14	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/21/2019 02:10	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/18/2019 18:14	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/21/2019 02:10	<a href="#">WG1314393</a>

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



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	57.4	<u>B</u>	31.6	100	1	07/18/2019 18:57	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 18:57	<a href="#">WG1313748</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.40	<u>B</u>	1.05	25.0	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 18:36	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/21/2019 02:29	<a href="#">WG1314393</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 18:36	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 18:36	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 18:36	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 18:36	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 18:36	<a href="#">WG1313581</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 02:29	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/21/2019 02:29	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Vinyl chloride	0.619		0.118	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/18/2019 18:36	<a href="#">WG1313581</a>
(S) Toluene-d8	109			80.0-120		07/21/2019 02:29	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/18/2019 18:36	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	99.9			77.0-126		07/21/2019 02:29	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/18/2019 18:36	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/21/2019 02:29	<a href="#">WG1314393</a>

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



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	211000		2710	20000	1	07/22/2019 13:16	<a href="#">WG1315264</a>

Sample Narrative:

L1119171-08 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	19900		51.9	1000	1	07/17/2019 20:21	<a href="#">WG1312677</a>
Nitrate	1760		22.7	100	1	07/17/2019 20:21	<a href="#">WG1312677</a>
Sulfate	67100		77.4	5000	1	07/17/2019 20:21	<a href="#">WG1312677</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1700		102	1000	1	07/18/2019 13:36	<a href="#">WG1313391</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2850		75.0	500	5	07/17/2019 20:48	<a href="#">WG1312768</a>
Manganese	391		1.25	25.0	5	07/17/2019 20:48	<a href="#">WG1312768</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	152	<u>B</u>	31.6	100	1	07/18/2019 19:19	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		07/18/2019 19:19	<a href="#">WG1313748</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	72.4		0.287	0.678	1	07/23/2019 14:08	<a href="#">WG1315671</a>
Ethane	U		0.296	1.29	1	07/23/2019 14:08	<a href="#">WG1315671</a>
Ethene	U		0.422	1.27	1	07/23/2019 14:08	<a href="#">WG1315671</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.01	<u>B, J</u>	1.05	25.0	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 18:58	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/18/2019 18:58	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 18:58	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 18:58	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 18:58	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 18:58	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 18:58	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 18:58	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 18:58	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 18:58	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 18:58	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 18:58	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 18:58	WG1313581
1,1-Dichloroethane	1.43		0.114	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dichloroethane	0.271	U	0.108	0.500	1	07/18/2019 18:58	WG1313581
1,1-Dichloroethene	0.738		0.188	0.500	1	07/18/2019 18:58	WG1313581
cis-1,2-Dichloroethene	74.9		0.0933	0.500	1	07/18/2019 18:58	WG1313581
trans-1,2-Dichloroethene	0.217	U	0.152	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dichloropropane	0.746		0.190	0.500	1	07/18/2019 18:58	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 18:58	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 18:58	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 18:58	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 18:58	WG1313581
trans-1,4-Dichloro-2-butene	U	UO	0.257	5.00	1	07/18/2019 18:58	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 18:58	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 18:58	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 18:58	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 18:58	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 18:58	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 18:58	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 18:58	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 18:58	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 18:58	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 18:58	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 18:58	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 18:58	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 18:58	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 18:58	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 18:58	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 18:58	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 18:58	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 18:58	WG1313581
1,1,2-Trichlorotrifluoroethane	0.631		0.164	0.500	1	07/18/2019 18:58	WG1313581
Tetrachloroethene	134		0.199	0.500	1	07/18/2019 18:58	WG1313581
Toluene	U		0.412	0.500	1	07/18/2019 18:58	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 18:58	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 18:58	WG1313581
1,1,1-Trichloroethane	0.302	U	0.0940	0.500	1	07/18/2019 18:58	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 18:58	WG1313581
Trichloroethene	40.1		0.153	0.500	1	07/18/2019 18:58	WG1313581
Trichlorofluoromethane	U	UO	0.130	2.50	1	07/18/2019 18:58	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 18:58	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 18:58	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 18:58	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 18:58	WG1313581

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Vinyl chloride	1.01		0.118	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 18:58	<a href="#">WG1313581</a>
<i>(S) Toluene-d8</i>	110			80.0-120		07/18/2019 18:58	<a href="#">WG1313581</a>
<i>(S) 4-Bromofluorobenzene</i>	104			77.0-126		07/18/2019 18:58	<a href="#">WG1313581</a>
<i>(S) 1,2-Dichloroethane-d4</i>	107			70.0-130		07/18/2019 18:58	<a href="#">WG1313581</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/18/2019 19:41	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 19:41	<a href="#">WG1313748</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.65	<u>B J</u>	1.05	25.0	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Chloroform	0.152	<u>J</u>	0.0860	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 19:19	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	0.131	<u>J</u>	0.0933	0.500	1	07/21/2019 03:08	<a href="#">WG1314393</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Tetrachloroethene	0.736		0.199	0.500	1	07/21/2019 03:08	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/21/2019 03:08	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Vinyl chloride	U		0.118	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/18/2019 19:19	<a href="#">WG1313581</a>
(S) Toluene-d8	112			80.0-120		07/21/2019 03:08	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/18/2019 19:19	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/21/2019 03:08	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/18/2019 19:19	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/21/2019 03:08	<a href="#">WG1314393</a>

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



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/18/2019 15:59	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		07/18/2019 15:59	<a href="#">WG1313748</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 13:20	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>



Collected date/time: 07/16/19 00:00

L1119171

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Toluene	U		0.412	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Vinyl chloride	U		0.118	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
(S) Toluene-d8	110			80.0-120		07/18/2019 13:20	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/18/2019 13:20	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/18/2019 13:20	<a href="#">WG1313581</a>

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





Method Blank (MB)

(MB) R3433012-1 07/22/19 11:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	3000	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1119200-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1119200-01 07/22/19 12:47 • (DUP) R3433012-2 07/22/19 12:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	1650000	1660000	1	0.247		20

Sample Narrative:

OS: Endpoint pH 4.5  
DUP: Endpoint pH 4.5

L1120696-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1120696-01 07/22/19 14:36 • (DUP) R3433012-4 07/22/19 14:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	82700	82100	1	0.740		20

Sample Narrative:

OS: Endpoint pH 4.5  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3433012-3 07/22/19 13:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	107000	107	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3431615-1 07/17/19 09:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	289	↓	51.9	1000
Nitrate	U		22.7	100
Sulfate	312	↓	77.4	5000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1119086-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1119086-02 07/17/19 11:20 • (DUP) R3431615-3 07/17/19 11:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	10600	10600	1	0.0839		15
Nitrate	3110	3080	1	0.785		15

L1119086-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1119086-02 07/17/19 11:53 • (DUP) R3431615-4 07/17/19 12:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	197000	196000	5	0.215		15

L1119171-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1119171-08 07/17/19 20:21 • (DUP) R3431615-7 07/17/19 20:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	19900	19800	1	0.325		15
Nitrate	1760	1760	1	0.0341		15
Sulfate	67100	66900	1	0.218		15

Laboratory Control Sample (LCS)

(LCS) R3431615-2 07/17/19 09:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	39400	98.6	80.0-120	
Nitrate	8000	8140	102	80.0-120	
Sulfate	40000	39100	97.9	80.0-120	



[L1119171-08](#)

L1119086-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119086-03 07/17/19 12:25 • (MS) R3431615-5 07/17/19 12:42 • (MSD) R3431615-6 07/17/19 12:58

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	33600	84200	84100	101	101	1	80.0-120			0.0534	15
Nitrate	5000	6710	11300	11300	91.6	91.6	1	80.0-120	<u>E</u>	<u>E</u>	0.0106	15
Sulfate	50000	347000	382000	382000	68.5	69.0	1	80.0-120	<u>EV</u>	<u>EV</u>	0.0655	15

L1119171-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1119171-08 07/17/19 20:21 • (MS) R3431615-8 07/17/19 20:54

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	19900	71600	103	1	80.0-120	
Nitrate	5000	1760	7060	106	1	80.0-120	
Sulfate	50000	67100	118000	102	1	80.0-120	<u>E</u>

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



Method Blank (MB)

(MB) R3432168-1 07/18/19 11:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	117	<span style="color: purple;">J</span>	102	1000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

L1119384-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1119384-01 07/18/19 13:07 • (DUP) R3432168-3 07/18/19 13:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	5510	5610	1	1.87		20

<sup>6</sup> Qc

L1119442-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1119442-01 07/18/19 20:27 • (DUP) R3432168-8 07/18/19 20:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	4430	4220	1	4.78		20

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3432168-2 07/18/19 12:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	76900	103	85.0-115	

L1119244-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119244-12 07/18/19 17:08 • (MS) R3432168-4 07/18/19 17:24 • (MSD) R3432168-5 07/18/19 17:51

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1480	51800	52800	101	103	1	80.0-120			2.07	20

L1119365-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119365-01 07/18/19 19:28 • (MS) R3432168-6 07/18/19 19:54 • (MSD) R3432168-7 07/18/19 20:13

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	33700	83800	84300	100	101	1	80.0-120			0.536	20



Method Blank (MB)

(MB) R3431693-1 07/17/19 19:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3431693-2 07/17/19 19:16 • (LCSD) R3431693-3 07/17/19 19:20

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	5380	5360	108	107	80.0-120			0.239	20
Manganese	50.0	52.3	50.7	105	101	80.0-120			3.16	20

5 Sr

6 Qc

L1119171-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119171-08 07/17/19 19:23 • (MS) R3431693-5 07/17/19 19:29 • (MSD) R3431693-6 07/17/19 19:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	2840	8050	8620	104	116	1	75.0-125			6.83	20
Manganese	50.0	384	440	435	113	102	1	75.0-125			1.28	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3432675-1 07/18/19 12:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	36.8	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3432675-2 07/18/19 14:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5660	103	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			106	78.0-120	

L1119004-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119004-03 07/18/19 16:21 • (MS) R3432675-3 07/18/19 22:17 • (MSD) R3432675-4 07/18/19 23:29

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	46.6	3100	3280	55.4	58.9	1	10.0-155			5.93	21
(S) a,a,a-Trifluorotoluene(FID)					103	103		78.0-120				



Method Blank (MB)

(MB) R3433363-1 07/23/19 12:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1119205-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1119205-01 07/23/19 13:07 • (DUP) R3433363-2 07/23/19 13:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1119221-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1119221-04 07/23/19 14:19 • (DUP) R3433363-3 07/23/19 14:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	2920	2950	1	0.951		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433363-4 07/23/19 14:48 • (LCSD) R3433363-5 07/23/19 14:52

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	71.8	73.5	106	108	85.0-115			2.35	20
Ethane	129	118	119	91.1	92.3	85.0-115			1.27	20
Ethene	127	118	118	92.6	92.7	85.0-115			0.118	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3432355-3 07/18/19 11:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Acetone	1.34	U	1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

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





Method Blank (MB)

(MB) R3432355-3 07/18/19 11:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	0.263	U	0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	109			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	102			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432355-1 07/18/19 09:04 • (LCSD) R3432355-2 07/18/19 09:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	135	133	108	107	19.0-160			1.03	27
Acrylonitrile	125	137	138	110	111	55.0-149			1.08	20
Benzene	25.0	24.0	24.1	96.0	96.5	70.0-123			0.454	20
Bromobenzene	25.0	23.3	23.3	93.2	93.1	73.0-121			0.148	20
Bromodichloromethane	25.0	25.5	25.2	102	101	75.0-120			1.36	20
Bromochloromethane	25.0	26.0	25.4	104	102	76.0-122			2.29	20
Bromoform	25.0	23.4	24.1	93.4	96.3	68.0-132			3.08	20
Bromomethane	25.0	23.8	23.8	95.4	95.1	10.0-160			0.261	25
n-Butylbenzene	25.0	26.6	26.8	106	107	73.0-125			0.918	20
sec-Butylbenzene	25.0	25.7	26.2	103	105	75.0-125			2.24	20
tert-Butylbenzene	25.0	25.6	25.6	102	103	76.0-124			0.0882	20
Carbon disulfide	25.0	24.4	24.3	97.4	97.0	61.0-128			0.411	20
Carbon tetrachloride	25.0	26.5	28.4	106	114	68.0-126			6.90	20
Chlorobenzene	25.0	25.4	25.7	101	103	80.0-121			1.41	20
Chlorodibromomethane	25.0	26.4	26.9	106	108	77.0-125			1.87	20
Chloroethane	25.0	23.8	24.0	95.1	96.1	47.0-150			1.07	20
Chloroform	25.0	24.1	23.8	96.3	95.3	73.0-120			1.05	20
Chloromethane	25.0	23.1	22.7	92.4	90.9	41.0-142			1.64	20
2-Chlorotoluene	25.0	24.6	24.4	98.5	97.6	76.0-123			0.890	20
4-Chlorotoluene	25.0	25.4	24.5	101	97.8	75.0-122			3.62	20
1,2-Dibromo-3-Chloropropane	25.0	25.6	25.9	102	104	58.0-134			1.27	20
1,2-Dibromoethane	25.0	26.0	27.1	104	108	80.0-122			4.10	20
Dibromomethane	25.0	26.0	26.3	104	105	80.0-120			0.939	20
1,2-Dichlorobenzene	25.0	24.5	24.8	98.1	99.3	79.0-121			1.27	20
1,3-Dichlorobenzene	25.0	25.3	25.2	101	101	79.0-120			0.288	20
1,4-Dichlorobenzene	25.0	24.7	24.5	98.6	98.1	79.0-120			0.525	20
Dichlorodifluoromethane	25.0	24.4	23.8	97.6	95.4	51.0-149			2.34	20
1,1-Dichloroethane	25.0	25.5	25.0	102	99.8	70.0-126			2.13	20
1,2-Dichloroethane	25.0	25.1	25.0	101	99.9	70.0-128			0.617	20
1,1-Dichloroethene	25.0	25.3	25.6	101	102	71.0-124			0.989	20
cis-1,2-Dichloroethene	25.0	24.5	24.5	97.8	97.9	73.0-120			0.117	20
trans-1,2-Dichloroethene	25.0	24.5	25.3	97.9	101	73.0-120			3.20	20
1,2-Dichloropropane	25.0	25.5	25.2	102	101	77.0-125			1.44	20
1,1-Dichloropropene	25.0	25.5	24.7	102	98.6	74.0-126			3.56	20
1,3-Dichloropropane	25.0	25.6	25.6	102	103	80.0-120			0.304	20
cis-1,3-Dichloropropene	25.0	26.5	26.4	106	105	80.0-123			0.411	20
trans-1,3-Dichloropropene	25.0	26.1	26.6	105	107	78.0-124			1.88	20
trans-1,4-Dichloro-2-butene	25.0	18.9	19.4	75.6	77.6	33.0-144			2.58	20
2,2-Dichloropropane	25.0	25.3	26.0	101	104	58.0-130			2.42	20
Di-isopropyl ether	25.0	25.0	25.2	99.9	101	58.0-138			0.986	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432355-1 07/18/19 09:04 • (LCSD) R3432355-2 07/18/19 09:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	24.6	25.3	98.3	101	79.0-123			3.04	20
Hexachloro-1,3-butadiene	25.0	24.9	25.7	99.6	103	54.0-138			3.12	20
2-Hexanone	125	137	138	109	111	67.0-149			1.31	20
n-Hexane	25.0	27.4	27.9	109	111	57.0-133			1.77	20
Iodomethane	125	121	120	97.0	96.1	33.0-147			0.880	26
Isopropylbenzene	25.0	25.2	26.3	101	105	76.0-127			4.22	20
p-Isopropyltoluene	25.0	26.4	26.6	106	106	76.0-125			0.627	20
2-Butanone (MEK)	125	134	133	107	106	44.0-160			0.335	20
Methylene Chloride	25.0	25.1	24.7	100	98.8	67.0-120			1.51	20
4-Methyl-2-pentanone (MIBK)	125	127	130	102	104	68.0-142			2.15	20
Methyl tert-butyl ether	25.0	25.5	25.4	102	102	68.0-125			0.0121	20
Naphthalene	25.0	25.8	26.8	103	107	54.0-135			3.92	20
n-Propylbenzene	25.0	25.0	25.0	100	99.9	77.0-124			0.299	20
Styrene	25.0	26.7	27.0	107	108	73.0-130			1.15	20
1,1,1,2-Tetrachloroethane	25.0	26.1	27.1	104	108	75.0-125			3.69	20
1,1,2,2-Tetrachloroethane	25.0	26.7	26.6	107	106	65.0-130			0.380	20
1,1,2-Trichlorotrifluoroethane	25.0	22.9	23.0	91.4	91.9	69.0-132			0.498	20
Tetrachloroethene	25.0	25.3	25.3	101	101	72.0-132			0.180	20
Toluene	25.0	24.1	24.4	96.4	97.5	79.0-120			1.09	20
1,2,3-Trichlorobenzene	25.0	25.2	25.2	101	101	50.0-138			0.101	20
1,2,4-Trichlorobenzene	25.0	26.2	26.1	105	105	57.0-137			0.128	20
1,1,1-Trichloroethane	25.0	25.3	25.0	101	100	73.0-124			1.02	20
1,1,2-Trichloroethane	25.0	26.3	27.0	105	108	80.0-120			2.93	20
Trichloroethene	25.0	23.6	23.4	94.4	93.8	78.0-124			0.621	20
Trichlorofluoromethane	25.0	19.0	19.5	76.1	78.2	59.0-147			2.71	20
1,2,3-Trichloropropane	25.0	25.5	25.8	102	103	73.0-130			1.19	20
1,2,4-Trimethylbenzene	25.0	24.8	25.1	99.2	101	76.0-121			1.40	20
1,2,3-Trimethylbenzene	25.0	24.8	24.9	99.1	99.5	77.0-120			0.404	20
1,3,5-Trimethylbenzene	25.0	24.2	24.1	96.6	96.4	76.0-122			0.243	20
Vinyl acetate	125	148	143	119	114	11.0-160			3.81	20
Vinyl chloride	25.0	25.3	25.2	101	101	67.0-131			0.218	20
Xylenes, Total	75.0	73.2	75.4	97.6	101	79.0-123			2.96	20
(S) Toluene-d8				107	109	80.0-120				
(S) 4-Bromofluorobenzene				103	106	77.0-126				
(S) 1,2-Dichloroethane-d4				105	105	70.0-130				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3433434-2 07/20/19 21:20

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
(S) Toluene-d8	111			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	108			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3433434-1 07/20/19 20:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	25.0	24.1	96.6	73.0-120	
Tetrachloroethene	25.0	27.8	111	72.0-132	
Trichloroethene	25.0	25.1	100	78.0-124	
(S) Toluene-d8			107	80.0-120	
(S) 4-Bromofluorobenzene			103	77.0-126	
(S) 1,2-Dichloroethane-d4			106	70.0-130	

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
V	The sample concentration is too high to evaluate accurate spike recoveries.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

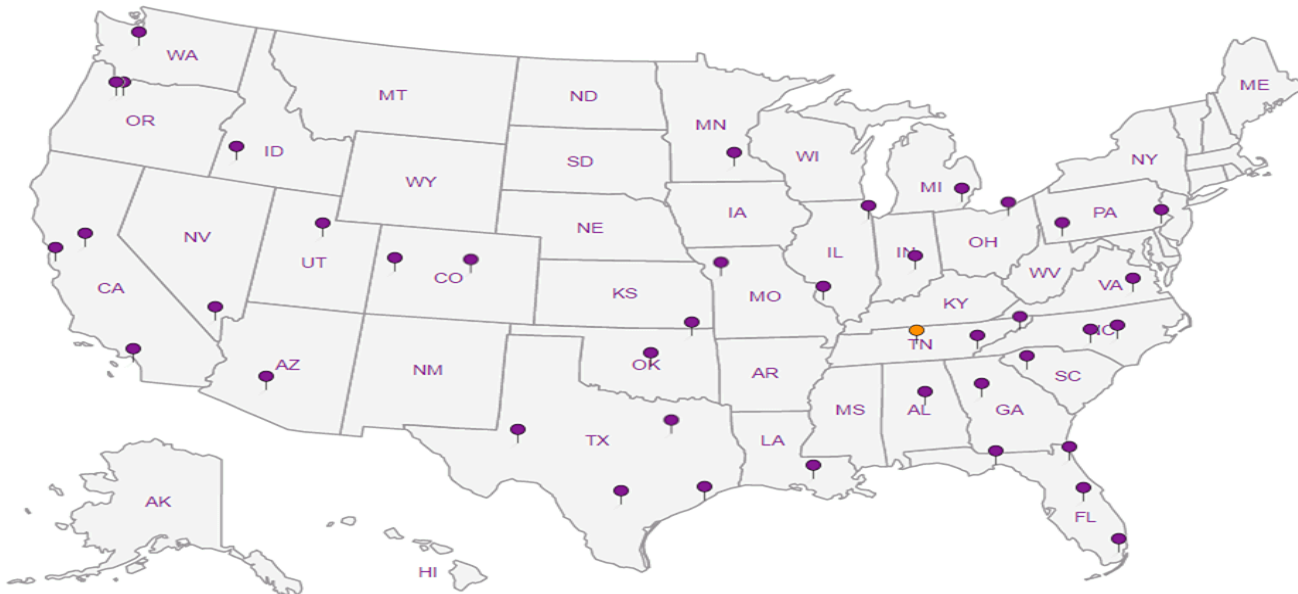
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
baldeman@pesenv.com; KSPRINGSTEAD@PESENV.COM

Project Description:  
American Lines

City/State Collected:  
Seattle, WA

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
1412.001.05.601

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
Ben Hecht

Site/Facility ID #  
American Lines



P.O. #

Collected by (signature):  
*[Signature]*

Rush? (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #  
Date Results Needed

Immediately Packed on Ice N  Y

Pres Chk	Analysis / Container / Preservative							Chain of Custody	Page ___ of ___
	*NO3,Cl, SO4* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3 <Z	VOCs 8260LLC 40mlAmb-HCl	 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859  L # <u>L119171</u> A184 Acctnum: PESENVSWA Template: T152679 Prelogin: P718645 TSR: 110 - Brian Ford PB: 7-5-19 ES Shipped Via: FedEx Ground	

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Remarks	Sample # (lab only)
MW-110-071519	Grab	GW	40	7/15/19	0955	3		-01
MW-111-071519	↓	GW	75	↓	1220	3		-02
MW103-071519	↓	GW	108.5	↓	1245	3		-03
MW109-071519	↓	GW	40	↓	1345	3		-04
MW-154-071519	↓	GW	30	↓	1440	8		-05
MW108-071519	↓	GW	45	↓	1445	3		-06
MW-9-071619	Grab	GW	18.5	7/16/19	0835	6		-07
MW120-071619	↓	GW	45	↓	845	12		-08
R-MWS-071619	↓	GW	27	↓	1010	6		-09
TRIP-071619	-	GW	-	7/15/19	-	1		-10

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: \*Nitrate has a 48 hour holding time.

Tier 2 lab QA/QC

Samples returned via:  
 UPS  FedEx  Courier

Tracking #

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist  
 COC Seal Present/Intact:  NP  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

**RAD SCREEN: <0.5 mR/hr**

Relinquished by: (Signature)  
*[Signature]*

Date: 7/16/19  
Time: 17:00

Received by: (Signature)

Trip Blank Received:  Yes  No TO  
 (HCl/MeOH TBR)

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature)

Temp: 43.1-42.4°C  
Bottles Received: 45 + TB

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)  
Mentik, T.

Date: 7/17 Time: 8:45

Hold: \_\_\_\_\_ Condition: NCF  OK



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.38	U B J	1.05	25.0	1	07/18/2019 15:30	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 15:30	WG1313581
Benzene	0.285	J J	0.0896	0.500	1	07/18/2019 15:30	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 15:30	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 15:30	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 15:30	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 15:30	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 15:30	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 15:30	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 15:30	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 15:30	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 15:30	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 15:30	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 15:30	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 15:30	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 15:30	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 15:30	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 15:30	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 15:30	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 15:30	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 15:30	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 15:30	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 15:30	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 15:30	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 15:30	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 15:30	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 15:30	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 15:30	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 15:30	WG1313581
1,1-Dichloroethene	8.44		0.188	0.500	1	07/18/2019 15:30	WG1313581
cis-1,2-Dichloroethene	578		1.87	10.0	20	07/21/2019 00:32	WG1314393
trans-1,2-Dichloroethene	5.87		0.152	0.500	1	07/18/2019 15:30	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 15:30	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 15:30	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 15:30	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 15:30	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 15:30	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/18/2019 15:30	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 15:30	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 15:30	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 15:30	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 15:30	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 15:30	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 15:30	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 15:30	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 15:30	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 15:30	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 15:30	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 15:30	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 15:30	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 15:30	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 15:30	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 15:30	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 15:30	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 15:30	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 15:30	WG1313581

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

JC 8/5/19





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Tetrachloroethene	1220		3.98	10.0	20	07/21/2019 00:32	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Trichloroethene	455		3.06	10.0	20	07/21/2019 00:32	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Vinyl chloride	1.26		0.118	0.500	1	07/18/2019 15:30	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 15:30	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/18/2019 15:30	<a href="#">WG1313581</a>
(S) Toluene-d8	112			80.0-120		07/21/2019 00:32	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/18/2019 15:30	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/21/2019 00:32	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/18/2019 15:30	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/21/2019 00:32	<a href="#">WG1314393</a>

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

JC 8/5/19



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.55	U B J	1.05	25.0	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Chloroethane	0.275	J J	0.141	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 15:51	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	0.596		0.0933	0.500	1	07/21/2019 00:52	<a href="#">WG1314393</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Methylene Chloride	U		1.07	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>

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

JC 8/5/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 00:52	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/21/2019 00:52	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Vinyl chloride	15.0		0.118	0.500	1	07/18/2019 15:51	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 15:51	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/18/2019 15:51	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/21/2019 00:52	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/18/2019 15:51	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/21/2019 00:52	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/18/2019 15:51	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/21/2019 00:52	<a href="#">WG1314393</a>

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

JC 8/5/19



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.13	U B J	1.05	25.0	1	07/18/2019 16:12	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 16:12	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 16:12	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 16:12	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 16:12	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 16:12	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 16:12	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 16:12	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 16:12	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 16:12	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 16:12	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 16:12	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 16:12	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 16:12	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 16:12	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 16:12	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 16:12	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 16:12	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 16:12	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 16:12	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 16:12	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 16:12	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 16:12	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 16:12	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 16:12	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 16:12	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 16:12	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 16:12	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 16:12	WG1313581
1,1-Dichloroethene	1.36		0.188	0.500	1	07/18/2019 16:12	WG1313581
cis-1,2-Dichloroethene	118		0.0933	0.500	1	07/18/2019 16:12	WG1313581
trans-1,2-Dichloroethene	0.232	J J	0.152	0.500	1	07/18/2019 16:12	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 16:12	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 16:12	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 16:12	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 16:12	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 16:12	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/18/2019 16:12	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 16:12	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 16:12	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 16:12	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 16:12	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 16:12	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 16:12	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 16:12	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 16:12	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 16:12	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 16:12	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 16:12	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 16:12	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 16:12	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 16:12	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 16:12	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 16:12	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 16:12	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 16:12	WG1313581

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

JC 8/5/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 01:11	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Trichloroethene	2.37		0.153	0.500	1	07/21/2019 01:11	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	<b>UJ</b> <u>JO</u>	0.130	2.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Vinyl chloride	55.4		0.118	0.500	1	07/18/2019 16:12	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 16:12	<a href="#">WG1313581</a>
(S) Toluene-d8	107			80.0-120		07/18/2019 16:12	<a href="#">WG1313581</a>
(S) Toluene-d8	111			80.0-120		07/21/2019 01:11	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/18/2019 16:12	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/21/2019 01:11	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/18/2019 16:12	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/21/2019 01:11	<a href="#">WG1314393</a>

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

JC 8/5/19



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.78	U B J	1.05	25.0	1	07/18/2019 16:34	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 16:34	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 16:34	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 16:34	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 16:34	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 16:34	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 16:34	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 16:34	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 16:34	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 16:34	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 16:34	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 16:34	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 16:34	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 16:34	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 16:34	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 16:34	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 16:34	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 16:34	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 16:34	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 16:34	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 16:34	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 16:34	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 16:34	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 16:34	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 16:34	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 16:34	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 16:34	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 16:34	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 16:34	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 16:34	WG1313581
cis-1,2-Dichloroethene	30.8		0.0933	0.500	1	07/18/2019 16:34	WG1313581
trans-1,2-Dichloroethene	0.199	J J	0.152	0.500	1	07/18/2019 16:34	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 16:34	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 16:34	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 16:34	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 16:34	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 16:34	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/18/2019 16:34	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 16:34	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 16:34	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 16:34	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 16:34	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 16:34	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 16:34	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 16:34	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 16:34	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 16:34	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 16:34	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 16:34	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 16:34	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 16:34	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 16:34	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 16:34	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 16:34	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 16:34	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 16:34	WG1313581

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

JC 8/5/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 01:31	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Trichloroethene	0.265	J J	0.153	0.500	1	07/21/2019 01:31	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Vinyl chloride	24.4		0.118	0.500	1	07/18/2019 16:34	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 16:34	<a href="#">WG1313581</a>
(S) Toluene-d8	110			80.0-120		07/18/2019 16:34	<a href="#">WG1313581</a>
(S) Toluene-d8	114			80.0-120		07/21/2019 01:31	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	107			77.0-126		07/18/2019 16:34	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/21/2019 01:31	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/18/2019 16:34	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/21/2019 01:31	<a href="#">WG1314393</a>

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

JC 8/5/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	68.0	U	B <sub>J</sub>	31.6	100	1	07/18/2019 18:35 <a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104				78.0-120		07/18/2019 18:35 <a href="#">WG1313748</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.42	U	B <sub>J</sub>	1.05	25.0	1	07/18/2019 17:52 <a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Benzene	U		0.0896	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Bromobenzene	U		0.133	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Bromochloromethane	U		0.145	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Bromoform	U		0.186	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Bromomethane	U		0.157	2.50	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Carbon disulfide	U		0.101	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Chlorobenzene	U		0.140	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Chloroethane	U		0.141	2.50	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Chloroform	U		0.0860	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Chloromethane	0.161	J	J	0.153	1.25	1	07/18/2019 17:52 <a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Dibromomethane	U		0.117	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
cis-1,2-Dichloroethene	2.55		0.0933	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
trans-1,4-Dichloro-2-butene	U	UJ	J <sub>O</sub>	0.257	5.00	1	07/18/2019 17:52 <a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Ethylbenzene	U		0.158	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
2-Hexanone	U		0.757	5.00	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
n-Hexane	U		0.305	5.00	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Iodomethane	U		0.377	10.0	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 17:52 <a href="#">WG1313581</a>	
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 17:52 <a href="#">WG1313581</a>	

JC 8/5/19





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Tetrachloroethene	69.5		0.199	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Toluene	U		0.412	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Trichloroethene	5.75		0.153	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Vinyl chloride	0.211	J U	0.118	0.500	1	07/18/2019 17:52	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 17:52	<a href="#">WG1313581</a>
(S) Toluene-d8	105			80.0-120		07/18/2019 17:52	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/18/2019 17:52	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/18/2019 17:52	<a href="#">WG1313581</a>

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

JC 8/5/19



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.90	U B J	1.05	25.0	1	07/18/2019 18:14	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 18:14	WG1313581
Benzene	2.90		0.0896	0.500	1	07/18/2019 18:14	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 18:14	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 18:14	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 18:14	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 18:14	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 18:14	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 18:14	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 18:14	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 18:14	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 18:14	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 18:14	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 18:14	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 18:14	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 18:14	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 18:14	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 18:14	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 18:14	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 18:14	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 18:14	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 18:14	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 18:14	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 18:14	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 18:14	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 18:14	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 18:14	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 18:14	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 18:14	WG1313581
1,1-Dichloroethene	4.09		0.188	0.500	1	07/18/2019 18:14	WG1313581
cis-1,2-Dichloroethene	918		2.33	12.5	25	07/21/2019 02:10	WG1314393
trans-1,2-Dichloroethene	3.48		0.152	0.500	1	07/18/2019 18:14	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 18:14	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 18:14	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 18:14	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 18:14	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 18:14	WG1313581
trans-1,4-Dichloro-2-butene	U	U J O	0.257	5.00	1	07/18/2019 18:14	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 18:14	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 18:14	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 18:14	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 18:14	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 18:14	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 18:14	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 18:14	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 18:14	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 18:14	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 18:14	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 18:14	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 18:14	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 18:14	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 18:14	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 18:14	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 18:14	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 18:14	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 18:14	WG1313581

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

JC 8/5/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Tetrachloroethene	567		4.98	12.5	25	07/21/2019 02:10	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Trichloroethene	189		0.153	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Vinyl chloride	197		0.118	0.500	1	07/18/2019 18:14	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 18:14	<a href="#">WG1313581</a>
(S) Toluene-d8	109			80.0-120		07/18/2019 18:14	<a href="#">WG1313581</a>
(S) Toluene-d8	116			80.0-120		07/21/2019 02:10	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/18/2019 18:14	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/21/2019 02:10	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/18/2019 18:14	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/21/2019 02:10	<a href="#">WG1314393</a>

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

JC 8/5/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	57.4	U B <sub>J</sub>	31.6	100	1	07/18/2019 18:57	WG1313748
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 18:57	WG1313748

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.40	U B <sub>J</sub>	1.05	25.0	1	07/18/2019 18:36	WG1313581
Acrylonitrile	U		0.873	5.00	1	07/18/2019 18:36	WG1313581
Benzene	U		0.0896	0.500	1	07/18/2019 18:36	WG1313581
Bromobenzene	U		0.133	0.500	1	07/18/2019 18:36	WG1313581
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 18:36	WG1313581
Bromochloromethane	U		0.145	0.500	1	07/18/2019 18:36	WG1313581
Bromoform	U		0.186	0.500	1	07/18/2019 18:36	WG1313581
Bromomethane	U		0.157	2.50	1	07/18/2019 18:36	WG1313581
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 18:36	WG1313581
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 18:36	WG1313581
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 18:36	WG1313581
Carbon disulfide	U		0.101	0.500	1	07/18/2019 18:36	WG1313581
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 18:36	WG1313581
Chlorobenzene	U		0.140	0.500	1	07/18/2019 18:36	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 18:36	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 18:36	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 18:36	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 18:36	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 18:36	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 18:36	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 18:36	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 18:36	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 18:36	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 18:36	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 18:36	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 18:36	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 18:36	WG1313581
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 18:36	WG1313581
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 18:36	WG1313581
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 18:36	WG1313581
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/21/2019 02:29	WG1314393
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 18:36	WG1313581
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 18:36	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 18:36	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 18:36	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 18:36	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 18:36	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/18/2019 18:36	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 18:36	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 18:36	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 18:36	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 18:36	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 18:36	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 18:36	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 18:36	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 18:36	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 18:36	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 18:36	WG1313581

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/5/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/21/2019 02:29	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/21/2019 02:29	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Vinyl chloride	0.619		0.118	0.500	1	07/18/2019 18:36	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 18:36	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/18/2019 18:36	<a href="#">WG1313581</a>
(S) Toluene-d8	109			80.0-120		07/21/2019 02:29	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/18/2019 18:36	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	99.9			77.0-126		07/21/2019 02:29	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/18/2019 18:36	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/21/2019 02:29	<a href="#">WG1314393</a>

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

JC 8/5/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	211000		2710	20000	1	07/22/2019 13:16	<a href="#">WG1315264</a>

Sample Narrative:

L1119171-08 WG1315264: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	19900		51.9	1000	1	07/17/2019 20:21	<a href="#">WG1312677</a>
Nitrate	1760		22.7	100	1	07/17/2019 20:21	<a href="#">WG1312677</a>
Sulfate	67100		77.4	5000	1	07/17/2019 20:21	<a href="#">WG1312677</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1700		102	1000	1	07/18/2019 13:36	<a href="#">WG1313391</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2850		75.0	500	5	07/17/2019 20:48	<a href="#">WG1312768</a>
Manganese	391		1.25	25.0	5	07/17/2019 20:48	<a href="#">WG1312768</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	152	J+ <del>B</del>	31.6	100	1	07/18/2019 19:19	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		07/18/2019 19:19	<a href="#">WG1313748</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	72.4		0.287	0.678	1	07/23/2019 14:08	<a href="#">WG1315671</a>
Ethane	U		0.296	1.29	1	07/23/2019 14:08	<a href="#">WG1315671</a>
Ethene	U		0.422	1.27	1	07/23/2019 14:08	<a href="#">WG1315671</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.01	U <del>B</del> <del>J</del>	1.05	25.0	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 18:58	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/18/2019 18:58	WG1313581
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 18:58	WG1313581
Chloroethane	U		0.141	2.50	1	07/18/2019 18:58	WG1313581
Chloroform	U		0.0860	0.500	1	07/18/2019 18:58	WG1313581
Chloromethane	U		0.153	1.25	1	07/18/2019 18:58	WG1313581
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 18:58	WG1313581
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 18:58	WG1313581
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 18:58	WG1313581
Dibromomethane	U		0.117	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 18:58	WG1313581
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 18:58	WG1313581
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 18:58	WG1313581
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 18:58	WG1313581
1,1-Dichloroethane	1.43		0.114	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dichloroethane	0.271	J U	0.108	0.500	1	07/18/2019 18:58	WG1313581
1,1-Dichloroethene	0.738		0.188	0.500	1	07/18/2019 18:58	WG1313581
cis-1,2-Dichloroethene	74.9		0.0933	0.500	1	07/18/2019 18:58	WG1313581
trans-1,2-Dichloroethene	0.217	J U	0.152	0.500	1	07/18/2019 18:58	WG1313581
1,2-Dichloropropane	0.746		0.190	0.500	1	07/18/2019 18:58	WG1313581
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 18:58	WG1313581
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 18:58	WG1313581
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 18:58	WG1313581
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 18:58	WG1313581
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/18/2019 18:58	WG1313581
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 18:58	WG1313581
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 18:58	WG1313581
Ethylbenzene	U		0.158	0.500	1	07/18/2019 18:58	WG1313581
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 18:58	WG1313581
2-Hexanone	U		0.757	5.00	1	07/18/2019 18:58	WG1313581
n-Hexane	U		0.305	5.00	1	07/18/2019 18:58	WG1313581
Iodomethane	U		0.377	10.0	1	07/18/2019 18:58	WG1313581
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 18:58	WG1313581
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 18:58	WG1313581
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 18:58	WG1313581
Methylene Chloride	U		1.07	2.50	1	07/18/2019 18:58	WG1313581
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 18:58	WG1313581
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 18:58	WG1313581
Naphthalene	U		0.174	2.50	1	07/18/2019 18:58	WG1313581
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 18:58	WG1313581
Styrene	U		0.117	0.500	1	07/18/2019 18:58	WG1313581
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 18:58	WG1313581
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 18:58	WG1313581
1,1,2-Trichlorotrifluoroethane	0.631		0.164	0.500	1	07/18/2019 18:58	WG1313581
Tetrachloroethene	134		0.199	0.500	1	07/18/2019 18:58	WG1313581
Toluene	U		0.412	0.500	1	07/18/2019 18:58	WG1313581
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 18:58	WG1313581
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 18:58	WG1313581
1,1,1-Trichloroethane	0.302	J U	0.0940	0.500	1	07/18/2019 18:58	WG1313581
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 18:58	WG1313581
Trichloroethene	40.1		0.153	0.500	1	07/18/2019 18:58	WG1313581
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 18:58	WG1313581
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 18:58	WG1313581
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 18:58	WG1313581
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 18:58	WG1313581
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 18:58	WG1313581

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

JC 8/5/19



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Vinyl chloride	1.01		0.118	0.500	1	07/18/2019 18:58	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 18:58	<a href="#">WG1313581</a>
<i>(S) Toluene-d8</i>	110			80.0-120		07/18/2019 18:58	<a href="#">WG1313581</a>
<i>(S) 4-Bromofluorobenzene</i>	104			77.0-126		07/18/2019 18:58	<a href="#">WG1313581</a>
<i>(S) 1,2-Dichloroethane-d4</i>	107			70.0-130		07/18/2019 18:58	<a href="#">WG1313581</a>

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

JC 8/5/19





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/18/2019 19:41	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 19:41	<a href="#">WG1313748</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.65	U B J	1.05	25.0	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Chloroform	0.152	J J	0.0860	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 19:19	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	0.131	J J	0.0933	0.500	1	07/21/2019 03:08	<a href="#">WG1314393</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/5/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Tetrachloroethene	0.736		0.199	0.500	1	07/21/2019 03:08	<a href="#">WG1314393</a>
Toluene	U		0.412	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/21/2019 03:08	<a href="#">WG1314393</a>
Trichlorofluoromethane	U	<b>UJ</b> <u>JO</u>	0.130	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Vinyl chloride	U		0.118	0.500	1	07/18/2019 19:19	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 19:19	<a href="#">WG1313581</a>
(S) Toluene-d8	108			80.0-120		07/18/2019 19:19	<a href="#">WG1313581</a>
(S) Toluene-d8	112			80.0-120		07/21/2019 03:08	<a href="#">WG1314393</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/18/2019 19:19	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/21/2019 03:08	<a href="#">WG1314393</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/18/2019 19:19	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/21/2019 03:08	<a href="#">WG1314393</a>

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

JC 8/5/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/18/2019 15:59	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		07/18/2019 15:59	<a href="#">WG1313748</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Acrylonitrile	U		0.873	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Benzene	U		0.0896	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Bromobenzene	U		0.133	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Bromodichloromethane	U		0.0800	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Bromochloromethane	U		0.145	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Bromoform	U		0.186	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Bromomethane	U		0.157	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
n-Butylbenzene	U		0.143	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
sec-Butylbenzene	U		0.134	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
tert-Butylbenzene	U		0.183	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Carbon disulfide	U		0.101	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Carbon tetrachloride	U		0.159	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Chlorobenzene	U		0.140	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Chlorodibromomethane	U		0.128	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Chloroethane	U		0.141	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Chloroform	U		0.0860	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Chloromethane	U		0.153	1.25	1	07/18/2019 13:20	<a href="#">WG1313581</a>
2-Chlorotoluene	U		0.111	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Dibromomethane	U		0.117	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
trans-1,4-Dichloro-2-butene	U	<b>UJ</b> <u>JO</u>	0.257	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Ethylbenzene	U		0.158	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
2-Hexanone	U		0.757	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
n-Hexane	U		0.305	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Iodomethane	U		0.377	10.0	1	07/18/2019 13:20	<a href="#">WG1313581</a> <span style="float: right;">JC 8/5/19</span>
Isopropylbenzene	U		0.126	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Naphthalene	U		0.174	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
n-Propylbenzene	U		0.162	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Styrene	U		0.117	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Tetrachloroethene	U		0.199	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Toluene	U		0.412	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Trichloroethene	U		0.153	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Vinyl acetate	U		0.645	5.00	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Vinyl chloride	U		0.118	0.500	1	07/18/2019 13:20	<a href="#">WG1313581</a>
Xylenes, Total	U		0.316	1.50	1	07/18/2019 13:20	<a href="#">WG1313581</a>
(S) Toluene-d8	110			80.0-120		07/18/2019 13:20	<a href="#">WG1313581</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/18/2019 13:20	<a href="#">WG1313581</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/18/2019 13:20	<a href="#">WG1313581</a>

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

JC 8/5/19

July 25, 2019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## PES Environmental, Inc.- WA

Sample Delivery Group: L1119726  
Samples Received: 07/18/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:

*Brian Ford*

Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



<b>Cp: Cover Page</b>	<b>1</b>
<b>Tc: Table of Contents</b>	<b>2</b>
<b>Ss: Sample Summary</b>	<b>3</b>
<b>Cn: Case Narrative</b>	<b>5</b>
<b>Sr: Sample Results</b>	<b>6</b>
MW116-071719 L1119726-01	6
MW113-071719 L1119726-02	8
MW115-071719 L1119726-03	11
MW105-071719 L1119726-04	13
BB-8-071719 L1119726-05	16
TRIP BLANK-071719 L1119726-06	19
<b>Qc: Quality Control Summary</b>	<b>21</b>
Wet Chemistry by Method 2320 B-2011	21
Wet Chemistry by Method 9056A	22
Wet Chemistry by Method 9060A	24
Metals (ICPMS) by Method 6020B	25
Volatile Organic Compounds (GC) by Method NWTPHGX	26
Volatile Organic Compounds (GC) by Method RSK175	28
Volatile Organic Compounds (GC/MS) by Method 8260C	29
<b>Gl: Glossary of Terms</b>	<b>34</b>
<b>Al: Accreditations &amp; Locations</b>	<b>35</b>
<b>Sc: Sample Chain of Custody</b>	<b>36</b>



# SAMPLE SUMMARY



## MW116-071719 L1119726-01 GW

Collected by  
Ben Hecht  
Collected date/time  
07/17/19 10:15  
Received date/time  
07/18/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 13:06	07/20/19 13:06	BMB	Mt. Juliet, TN

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW113-071719 L1119726-02 GW

Collected by  
Ben Hecht  
Collected date/time  
07/17/19 10:20  
Received date/time  
07/18/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315387	1	07/23/19 21:05	07/23/19 21:05	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1313370	1	07/18/19 13:19	07/18/19 13:19	ST	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1313370	5	07/18/19 13:35	07/18/19 13:35	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1314078	1	07/19/19 12:56	07/19/19 12:56	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1313694	1	07/18/19 14:34	07/18/19 19:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1313748	1	07/18/19 21:09	07/18/19 21:09	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1316403	1	07/24/19 13:37	07/24/19 13:37	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 13:27	07/20/19 13:27	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1316884	100	07/24/19 22:33	07/24/19 22:33	ACG	Mt. Juliet, TN

## MW115-071719 L1119726-03 GW

Collected by  
Ben Hecht  
Collected date/time  
07/17/19 11:35  
Received date/time  
07/18/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 13:47	07/20/19 13:47	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1316884	1	07/24/19 19:53	07/24/19 19:53	ACG	Mt. Juliet, TN

## MW105-071719 L1119726-04 GW

Collected by  
Ben Hecht  
Collected date/time  
07/17/19 13:45  
Received date/time  
07/18/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315387	1	07/23/19 21:12	07/23/19 21:12	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1313370	1	07/18/19 13:51	07/18/19 13:51	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1314078	1	07/19/19 14:15	07/19/19 14:15	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1313694	2	07/18/19 14:34	07/18/19 20:05	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1313694	5	07/18/19 14:34	07/18/19 20:09	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1313748	1	07/18/19 21:32	07/18/19 21:32	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1316403	1	07/24/19 13:43	07/24/19 13:43	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 14:08	07/20/19 14:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1316884	1	07/24/19 20:14	07/24/19 20:14	ACG	Mt. Juliet, TN

## BB-8-071719 L1119726-05 GW

Collected by  
Ben Hecht  
Collected date/time  
07/17/19 13:55  
Received date/time  
07/18/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315387	1	07/23/19 21:19	07/23/19 21:19	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1313370	1	07/18/19 14:57	07/18/19 14:57	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1314078	1	07/19/19 14:30	07/19/19 14:30	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1313694	1	07/18/19 14:34	07/18/19 19:36	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1313748	1	07/18/19 21:54	07/18/19 21:54	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1316403	1	07/24/19 13:45	07/24/19 13:45	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 14:28	07/20/19 14:28	BMB	Mt. Juliet, TN

# SAMPLE SUMMARY



TRIP BLANK-071719 L1119726-06 GW

Collected by: Ben Hecht  
 Collected date/time: 07/17/19 16:00  
 Received date/time: 07/18/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 14:10	07/24/19 14:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 12:05	07/20/19 12:05	BMB	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

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



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.28	J JO	1.05	25.0	1	07/20/2019 13:06	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 13:06	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 13:06	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 13:06	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 13:06	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 13:06	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 13:06	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 13:06	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 13:06	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 13:06	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 13:06	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 13:06	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 13:06	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 13:06	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 13:06	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 13:06	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 13:06	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 13:06	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 13:06	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 13:06	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 13:06	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 13:06	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 13:06	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 13:06	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 13:06	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 13:06	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 13:06	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 13:06	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 13:06	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 13:06	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 13:06	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 13:06	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 13:06	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 13:06	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 13:06	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 13:06	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 13:06	WG1314770
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/20/2019 13:06	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 13:06	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 13:06	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 13:06	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 13:06	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 13:06	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 13:06	WG1314770
Iodomethane	U	JO	0.377	10.0	1	07/20/2019 13:06	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 13:06	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 13:06	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 13:06	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 13:06	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 13:06	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 13:06	WG1314770
Naphthalene	U	JO	0.174	2.50	1	07/20/2019 13:06	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 13:06	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 13:06	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 13:06	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 13:06	WG1314770

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 13:06	<a href="#">WG1314770</a>
(S) Toluene-d8	98.9			80.0-120		07/20/2019 13:06	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	91.0			77.0-126		07/20/2019 13:06	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	97.7			70.0-130		07/20/2019 13:06	<a href="#">WG1314770</a>

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



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	139000		2710	20000	1	07/23/2019 21:05	<a href="#">WG1315387</a>

Sample Narrative:

L1119726-02 WG1315387: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	152000		260	5000	5	07/18/2019 13:35	<a href="#">WG1313370</a>
Nitrate	992		22.7	100	1	07/18/2019 13:19	<a href="#">WG1313370</a>
Sulfate	15100		77.4	5000	1	07/18/2019 13:19	<a href="#">WG1313370</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2380		102	1000	1	07/19/2019 12:56	<a href="#">WG1314078</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	786		15.0	100	1	07/18/2019 19:27	<a href="#">WG1313694</a>
Manganese	79.9		0.250	5.00	1	07/18/2019 19:27	<a href="#">WG1313694</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	2560		31.6	100	1	07/18/2019 21:09	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 21:09	<a href="#">WG1313748</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1130		0.287	0.678	1	07/24/2019 13:37	<a href="#">WG1316403</a>
Ethane	9.87		0.296	1.29	1	07/24/2019 13:37	<a href="#">WG1316403</a>
Ethene	27.2		0.422	1.27	1	07/24/2019 13:37	<a href="#">WG1316403</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.54	J JO	1.05	25.0	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Benzene	0.172	J	0.0896	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 13:27	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/17/19 10:20

L1119726

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 13:27	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 13:27	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 13:27	WG1314770
Chloroform	0.226	J	0.0860	0.500	1	07/20/2019 13:27	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 13:27	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 13:27	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 13:27	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 13:27	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 13:27	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 13:27	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 13:27	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 13:27	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 13:27	WG1314770
1,1-Dichloroethene	3.40		0.188	0.500	1	07/20/2019 13:27	WG1314770
cis-1,2-Dichloroethene	4940		9.33	50.0	100	07/24/2019 22:33	WG1316884
trans-1,2-Dichloroethene	13.1		0.152	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 13:27	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 13:27	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 13:27	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 13:27	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 13:27	WG1314770
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/20/2019 13:27	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 13:27	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 13:27	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 13:27	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 13:27	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 13:27	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 13:27	WG1314770
Iodomethane	U	JO	0.377	10.0	1	07/20/2019 13:27	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 13:27	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 13:27	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 13:27	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 13:27	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 13:27	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 13:27	WG1314770
Naphthalene	U	JO	0.174	2.50	1	07/20/2019 13:27	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 13:27	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 13:27	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 13:27	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 13:27	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 13:27	WG1314770
Tetrachloroethene	3.14		0.199	0.500	1	07/20/2019 13:27	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 13:27	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 13:27	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 13:27	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 13:27	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 13:27	WG1314770
Trichloroethene	20.4		0.153	0.500	1	07/20/2019 13:27	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 13:27	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 13:27	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 13:27	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 13:27	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 13:27	WG1314770

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Vinyl chloride	103		0.118	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 13:27	<a href="#">WG1314770</a>
(S) Toluene-d8	99.7			80.0-120		07/20/2019 13:27	<a href="#">WG1314770</a>
(S) Toluene-d8	106			80.0-120		07/24/2019 22:33	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	92.4			77.0-126		07/20/2019 13:27	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/24/2019 22:33	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		07/20/2019 13:27	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/24/2019 22:33	<a href="#">WG1316884</a>

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



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.55	J JO	1.05	25.0	1	07/20/2019 13:47	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 13:47	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 13:47	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 13:47	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 13:47	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 13:47	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 13:47	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 13:47	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 13:47	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 13:47	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 13:47	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 13:47	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 13:47	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 13:47	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 13:47	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 13:47	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 13:47	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 13:47	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 13:47	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 13:47	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 13:47	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 13:47	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 13:47	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 13:47	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 13:47	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 13:47	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 13:47	WG1314770
cis-1,2-Dichloroethene	0.787		0.0933	0.500	1	07/24/2019 19:53	WG1316884
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 13:47	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 13:47	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 13:47	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 13:47	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 13:47	WG1314770
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/20/2019 13:47	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 13:47	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 13:47	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 13:47	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 13:47	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 13:47	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 13:47	WG1314770
Iodomethane	U	JO	0.377	10.0	1	07/20/2019 13:47	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 13:47	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 13:47	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 13:47	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 13:47	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 13:47	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 13:47	WG1314770
Naphthalene	U	JO	0.174	2.50	1	07/20/2019 13:47	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 13:47	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 13:47	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 13:47	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 13:47	WG1314770

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Vinyl chloride	24.3		0.118	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 13:47	<a href="#">WG1314770</a>
(S) Toluene-d8	99.6			80.0-120		07/20/2019 13:47	<a href="#">WG1314770</a>
(S) Toluene-d8	107			80.0-120		07/24/2019 19:53	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	89.4			77.0-126		07/20/2019 13:47	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/24/2019 19:53	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	100			70.0-130		07/20/2019 13:47	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/24/2019 19:53	<a href="#">WG1316884</a>

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





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	314000		2710	20000	1	07/23/2019 21:12	<a href="#">WG1315387</a>

Sample Narrative:

L1119726-04 WG1315387: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	34900		51.9	1000	1	07/18/2019 13:51	<a href="#">WG1313370</a>
Nitrate	U		22.7	100	1	07/18/2019 13:51	<a href="#">WG1313370</a>
Sulfate	7660		77.4	5000	1	07/18/2019 13:51	<a href="#">WG1313370</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3380		102	1000	1	07/19/2019 14:15	<a href="#">WG1314078</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2290		30.0	200	2	07/18/2019 20:05	<a href="#">WG1313694</a>
Manganese	945		1.25	25.0	5	07/18/2019 20:09	<a href="#">WG1313694</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	37.8	<u>B</u>	31.6	100	1	07/18/2019 21:32	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 21:32	<a href="#">WG1313748</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	1830		0.287	0.678	1	07/24/2019 13:43	<a href="#">WG1316403</a>
Ethane	U		0.296	1.29	1	07/24/2019 13:43	<a href="#">WG1316403</a>
Ethene	U		0.422	1.27	1	07/24/2019 13:43	<a href="#">WG1316403</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.18	<u>J</u>	1.05	25.0	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 14:08	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/17/19 13:45

L1119726

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 14:08	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 14:08	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 14:08	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 14:08	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 14:08	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 14:08	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 14:08	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 14:08	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 14:08	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 14:08	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 14:08	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 14:08	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 14:08	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 14:08	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 14:08	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 14:08	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 14:08	WG1314770
cis-1,2-Dichloroethene	0.891		0.0933	0.500	1	07/24/2019 20:14	WG1316884
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 14:08	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 14:08	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 14:08	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 14:08	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 14:08	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 14:08	WG1314770
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/20/2019 14:08	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 14:08	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 14:08	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 14:08	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 14:08	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 14:08	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 14:08	WG1314770
Iodomethane	U	JO	0.377	10.0	1	07/20/2019 14:08	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 14:08	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 14:08	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 14:08	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 14:08	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 14:08	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 14:08	WG1314770
Naphthalene	U	JO	0.174	2.50	1	07/20/2019 14:08	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 14:08	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 14:08	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 14:08	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 14:08	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 14:08	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 14:08	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 14:08	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 14:08	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 14:08	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 14:08	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 14:08	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 14:08	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 14:08	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 14:08	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 14:08	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 14:08	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 14:08	WG1314770

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Vinyl chloride	0.265	↓	0.118	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 14:08	<a href="#">WG1314770</a>
(S) Toluene-d8	96.8			80.0-120		07/20/2019 14:08	<a href="#">WG1314770</a>
(S) Toluene-d8	108			80.0-120		07/24/2019 20:14	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	90.7			77.0-126		07/20/2019 14:08	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/24/2019 20:14	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/20/2019 14:08	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/24/2019 20:14	<a href="#">WG1316884</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	240000		2710	20000	1	07/23/2019 21:19	<a href="#">WG1315387</a>

Sample Narrative:

L1119726-05 WG1315387: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	10400		51.9	1000	1	07/18/2019 14:57	<a href="#">WG1313370</a>
Nitrate	1940		22.7	100	1	07/18/2019 14:57	<a href="#">WG1313370</a>
Sulfate	59000		77.4	5000	1	07/18/2019 14:57	<a href="#">WG1313370</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4360		102	1000	1	07/19/2019 14:30	<a href="#">WG1314078</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	691		15.0	100	1	07/18/2019 19:36	<a href="#">WG1313694</a>
Manganese	97.9		0.250	5.00	1	07/18/2019 19:36	<a href="#">WG1313694</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	112	<u>B</u>	31.6	100	1	07/18/2019 21:54	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 21:54	<a href="#">WG1313748</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	62.2		0.287	0.678	1	07/24/2019 13:45	<a href="#">WG1316403</a>
Ethane	U		0.296	1.29	1	07/24/2019 13:45	<a href="#">WG1316403</a>
Ethene	U		0.422	1.27	1	07/24/2019 13:45	<a href="#">WG1316403</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.06	<u>J JO</u>	1.05	25.0	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 14:28	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/17/19 13:55

L1119726

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 14:28	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 14:28	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 14:28	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 14:28	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 14:28	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 14:28	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 14:28	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 14:28	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 14:28	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 14:28	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 14:28	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 14:28	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 14:28	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 14:28	WG1314770
cis-1,2-Dichloroethene	19.3		0.0933	0.500	1	07/20/2019 14:28	WG1314770
trans-1,2-Dichloroethene	0.262	<u>J</u>	0.152	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 14:28	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 14:28	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 14:28	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 14:28	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 14:28	WG1314770
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/20/2019 14:28	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 14:28	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 14:28	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 14:28	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 14:28	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 14:28	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 14:28	WG1314770
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/20/2019 14:28	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 14:28	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 14:28	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 14:28	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 14:28	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 14:28	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 14:28	WG1314770
Naphthalene	U	<u>JO</u>	0.174	2.50	1	07/20/2019 14:28	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 14:28	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 14:28	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 14:28	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 14:28	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 14:28	WG1314770
Tetrachloroethene	169		0.199	0.500	1	07/20/2019 14:28	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 14:28	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 14:28	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 14:28	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 14:28	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 14:28	WG1314770
Trichloroethene	28.9		0.153	0.500	1	07/20/2019 14:28	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 14:28	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 14:28	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 14:28	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 14:28	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 14:28	WG1314770

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 14:28	<a href="#">WG1314770</a>
<i>(S) Toluene-d8</i>	101			80.0-120		07/20/2019 14:28	<a href="#">WG1314770</a>
<i>(S) 4-Bromofluorobenzene</i>	92.8			77.0-126		07/20/2019 14:28	<a href="#">WG1314770</a>
<i>(S) 1,2-Dichloroethane-d4</i>	98.7			70.0-130		07/20/2019 14:28	<a href="#">WG1314770</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 14:10	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 14:10	<a href="#">WG1316734</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 12:05	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Dibromomethane	U		0.117	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Ethylbenzene	U		0.158	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
2-Hexanone	U		0.757	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
n-Hexane	U		0.305	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>



Collected date/time: 07/17/19 16:00

L1119726

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Styrene	U		0.117	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
(S) Toluene-d8	98.1			80.0-120		07/20/2019 12:05	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	94.1			77.0-126		07/20/2019 12:05	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	99.4			70.0-130		07/20/2019 12:05	<a href="#">WG1314770</a>

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





Method Blank (MB)

(MB) R3433515-1 07/23/19 18:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	2900	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1119486-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1119486-03 07/23/19 19:00 • (DUP) R3433515-2 07/23/19 19:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	86200	86300	1	0.0807		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1118670-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1118670-03 07/23/19 21:44 • (DUP) R3433515-4 07/23/19 21:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	127000	125000	1	1.43		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3433515-3 07/23/19 20:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	99900	99.9	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3432132-1 07/18/19 08:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	294	↓	51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1119726-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1119726-04 07/18/19 13:51 • (DUP) R3432132-3 07/18/19 14:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	34900	34700	1	0.505		15
Nitrate	U	0.000	1	0.000		15
Sulfate	7660	7640	1	0.209		15

L1119782-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1119782-08 07/18/19 21:47 • (DUP) R3432132-6 07/18/19 22:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	65500	65300	1	0.337		15
Nitrate	1710	1700	1	0.458		15
Sulfate	92600	92400	1	0.153		15

Laboratory Control Sample (LCS)

(LCS) R3432132-2 07/18/19 08:55

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	39400	98.5	80.0-120	
Nitrate	8000	8140	102	80.0-120	
Sulfate	40000	39100	97.7	80.0-120	



L1119726-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119726-05 07/18/19 14:57 • (MS) R3432132-4 07/18/19 15:13 • (MSD) R3432132-5 07/18/19 15:30

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	10400	61600	61600	103	103	1	80.0-120			0.0367	15
Nitrate	5000	1940	7180	7170	105	105	1	80.0-120			0.0864	15
Sulfate	50000	59000	110000	110000	102	102	1	80.0-120	E	E	0.0289	15

L1119782-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1119782-08 07/18/19 21:47 • (MS) R3432132-7 07/18/19 22:20

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	65500	114000	96.6	1	80.0-120	E
Nitrate	5000	1710	6930	104	1	80.0-120	
Sulfate	50000	92600	142000	98.9	1	80.0-120	E

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3432736-1 07/19/19 10:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	212	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1119733-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1119733-01 07/19/19 14:46 • (DUP) R3432736-5 07/19/19 15:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	39300	37800	2	4.00		20

L1119747-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1119747-03 07/19/19 18:04 • (DUP) R3432736-8 07/19/19 18:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1780	1630	1	8.62		20

Laboratory Control Sample (LCS)

(LCS) R3432736-2 07/19/19 10:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	75700	101	85.0-115	

L1119692-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119692-04 07/19/19 12:05 • (MS) R3432736-3 07/19/19 12:24 • (MSD) R3432736-4 07/19/19 12:44

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	7690	55800	56200	96.2	97.1	1	80.0-120			0.768	20

L1119743-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119743-02 07/19/19 15:45 • (MS) R3432736-6 07/19/19 16:01 • (MSD) R3432736-7 07/19/19 16:20

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	3980	50300	50800	92.7	93.6	1	80.0-120			0.930	20



Method Blank (MB)

(MB) R3432106-1 07/18/19 18:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432106-2 07/18/19 18:22 • (LCSD) R3432106-3 07/18/19 18:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	5340	5430	107	109	80.0-120			1.68	20
Manganese	50.0	50.2	51.3	100	103	80.0-120			2.12	20

L1115520-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1115520-01 07/18/19 18:31 • (MS) R3432106-5 07/18/19 18:40 • (MSD) R3432106-6 07/18/19 18:44

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	414	5740	5760	106	107	1	75.0-125			0.470	20
Manganese	50.0	1300	1320	1330	31.7	54.3	1	75.0-125	V	V	0.854	20



Method Blank (MB)

(MB) R3432675-1 07/18/19 12:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	36.8	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3432675-2 07/18/19 14:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5660	103	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			106	78.0-120	

L1119004-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1119004-03 07/18/19 16:21 • (MS) R3432675-3 07/18/19 22:17 • (MSD) R3432675-4 07/18/19 23:29

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	46.6	3100	3280	55.4	58.9	1	10.0-155			5.93	21
(S) a,a,a-Trifluorotoluene(FID)					103	103		78.0-120				



Method Blank (MB)

(MB) R3433855-3 07/24/19 13:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3433855-2 07/24/19 12:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5440	99.0	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			94.7	78.0-120	



Method Blank (MB)

(MB) R3433840-1 07/24/19 13:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1120145-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1120145-01 07/24/19 13:31 • (DUP) R3433840-2 07/24/19 14:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	0.000	1	0.000		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

L1119775-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1119775-14 07/24/19 14:16 • (DUP) R3433840-3 07/24/19 14:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	0.000	1	0.000		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433840-4 07/24/19 14:59 • (LCSD) R3433840-5 07/24/19 15:03

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	70.2	74.5	104	110	85.0-115			5.94	20
Ethane	129	116	121	90.2	93.6	85.0-115			3.72	20
Ethene	127	116	120	91.2	94.5	85.0-115			3.58	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3433853-2 07/20/19 11:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

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



Method Blank (MB)

(MB) R3433853-2 07/20/19 11:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	102			80.0-120
(S) 4-Bromofluorobenzene	95.8			77.0-126
(S) 1,2-Dichloroethane-d4	101			70.0-130

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



Laboratory Control Sample (LCS)

(LCS) R3433853-1 07/20/19 10:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	125	150	120	19.0-160	
Acrylonitrile	125	139	111	55.0-149	
Benzene	25.0	25.2	101	70.0-123	
Bromobenzene	25.0	21.3	85.0	73.0-121	
Bromodichloromethane	25.0	24.3	97.4	75.0-120	
Bromochloromethane	25.0	23.3	93.1	76.0-122	
Bromoform	25.0	26.4	106	68.0-132	
Bromomethane	25.0	23.5	93.9	10.0-160	
n-Butylbenzene	25.0	23.0	92.1	73.0-125	
sec-Butylbenzene	25.0	22.4	89.5	75.0-125	
tert-Butylbenzene	25.0	23.0	91.8	76.0-124	
Carbon disulfide	25.0	26.5	106	61.0-128	
Carbon tetrachloride	25.0	27.1	108	68.0-126	
Chlorobenzene	25.0	25.3	101	80.0-121	
Chlorodibromomethane	25.0	26.9	108	77.0-125	
Chloroethane	25.0	27.4	110	47.0-150	
Chloroform	25.0	25.2	101	73.0-120	
Chloromethane	25.0	20.5	81.8	41.0-142	
2-Chlorotoluene	25.0	21.8	87.1	76.0-123	
4-Chlorotoluene	25.0	21.5	85.9	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	20.6	82.3	58.0-134	
1,2-Dibromoethane	25.0	25.0	99.9	80.0-122	
Dibromomethane	25.0	25.7	103	80.0-120	
1,2-Dichlorobenzene	25.0	24.1	96.3	79.0-121	
1,3-Dichlorobenzene	25.0	23.7	94.9	79.0-120	
1,4-Dichlorobenzene	25.0	23.2	93.0	79.0-120	
Dichlorodifluoromethane	25.0	36.0	144	51.0-149	
1,1-Dichloroethane	25.0	25.5	102	70.0-126	
1,2-Dichloroethane	25.0	25.7	103	70.0-128	
1,1-Dichloroethene	25.0	25.4	102	71.0-124	
cis-1,2-Dichloroethene	25.0	25.4	102	73.0-120	
trans-1,2-Dichloroethene	25.0	27.4	110	73.0-120	
1,2-Dichloropropane	25.0	25.8	103	77.0-125	
1,1-Dichloropropene	25.0	27.7	111	74.0-126	
1,3-Dichloropropane	25.0	23.9	95.6	80.0-120	
cis-1,3-Dichloropropene	25.0	25.2	101	80.0-123	
trans-1,3-Dichloropropene	25.0	24.8	99.4	78.0-124	
trans-1,4-Dichloro-2-butene	25.0	19.1	76.4	33.0-144	
2,2-Dichloropropane	25.0	21.1	84.5	58.0-130	
Di-isopropyl ether	25.0	25.6	103	58.0-138	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3433853-1 07/20/19 10:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	25.0	25.6	102	79.0-123	
Hexachloro-1,3-butadiene	25.0	21.1	84.4	54.0-138	
2-Hexanone	125	122	97.6	67.0-149	
n-Hexane	25.0	24.3	97.4	57.0-133	
Iodomethane	125	92.2	73.8	33.0-147	
Isopropylbenzene	25.0	25.6	102	76.0-127	
p-Isopropyltoluene	25.0	23.8	95.2	76.0-125	
2-Butanone (MEK)	125	126	101	44.0-160	
Methylene Chloride	25.0	25.2	101	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	125	99.8	68.0-142	
Methyl tert-butyl ether	25.0	25.0	99.8	68.0-125	
Naphthalene	25.0	19.0	76.0	54.0-135	
n-Propylbenzene	25.0	23.0	92.0	77.0-124	
Styrene	25.0	26.9	108	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	25.1	100	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	22.1	88.4	65.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	21.9	87.8	69.0-132	
Tetrachloroethene	25.0	25.7	103	72.0-132	
Toluene	25.0	24.0	95.8	79.0-120	
1,2,3-Trichlorobenzene	25.0	22.7	90.7	50.0-138	
1,2,4-Trichlorobenzene	25.0	22.2	88.8	57.0-137	
1,1,1-Trichloroethane	25.0	26.9	107	73.0-124	
1,1,2-Trichloroethane	25.0	23.5	94.0	80.0-120	
Trichloroethene	25.0	24.0	95.9	78.0-124	
Trichlorofluoromethane	25.0	28.6	115	59.0-147	
1,2,3-Trichloropropane	25.0	23.2	92.7	73.0-130	
1,2,4-Trimethylbenzene	25.0	23.1	92.5	76.0-121	
1,2,3-Trimethylbenzene	25.0	27.5	110	77.0-120	
1,3,5-Trimethylbenzene	25.0	23.1	92.3	76.0-122	
Vinyl acetate	125	148	118	11.0-160	
Vinyl chloride	25.0	25.4	101	67.0-131	
Xylenes, Total	75.0	76.7	102	79.0-123	
(S) Toluene-d8			95.9	80.0-120	
(S) 4-Bromofluorobenzene			96.9	77.0-126	
(S) 1,2-Dichloroethane-d4			111	70.0-130	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3434111-2 07/24/19 18:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	105			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3434111-1 07/24/19 09:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	25.0	25.1	100	73.0-120	
(S) Toluene-d8			106	80.0-120	
(S) 4-Bromofluorobenzene			105	77.0-126	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
V	The sample concentration is too high to evaluate accurate spike recoveries.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

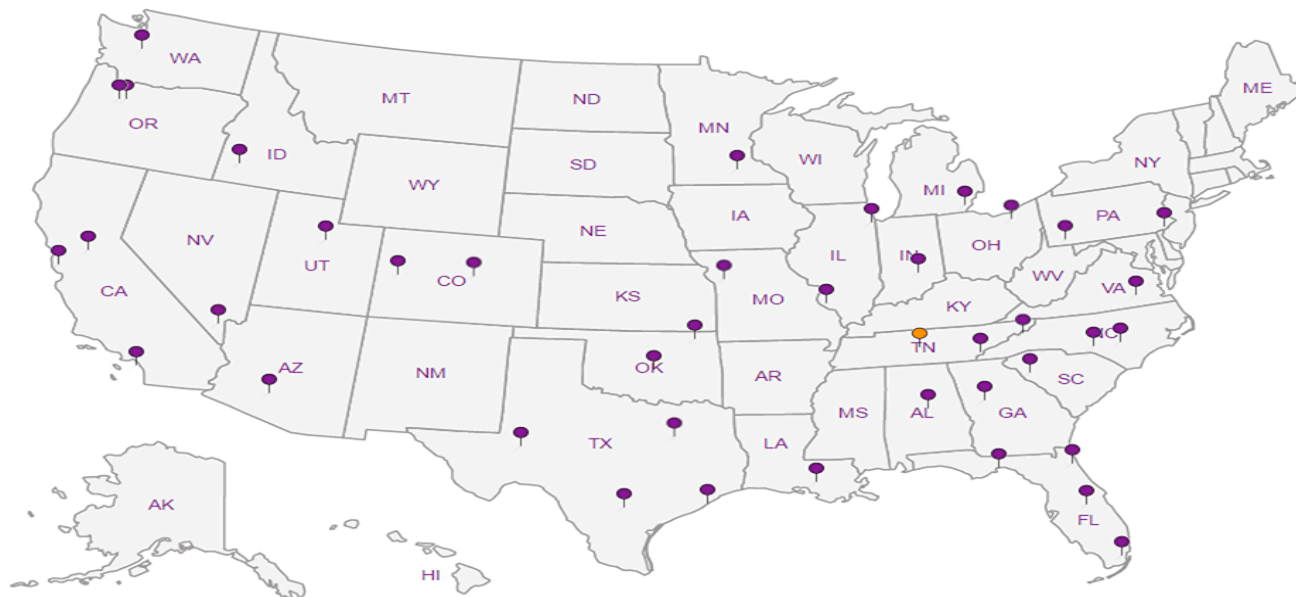
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com;

*KUER@PES ENV.COM*  
*KSPRING STRAD@PES ENV.COM*

Project Description: *American Linen*

City/State Collected: *Seattle, WA*

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
*1413.001.05.601*

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
*Ben Hecht*

Site/Facility ID #  
*American Linen*

P.O. #

Collected by (signature):  
*[Signature]*

Rush? (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Date Results Needed  
*Standard IAT*

Immediately Packed on Ice N  Y

No. of  
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,Cl, SO4* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3. <2	VOCs 8260LLC 40mlAmb-HCl	Remarks	Sample # (lab only)
MW116-071719	Grab	GW	40	7/17/19	1015	3									-01
MW113-071719	↓	GW	75	↓	1020	12	X	X	X	X	X	X	X		-02
MW115-071719	↓	GW	40	↓	1135	3									-03
MW105-071719	↓	GW	135	↓	1345	12	X	X	X	X	X	X	X		-04
BB-8-071719	↓	GW	35	↓	1355	12	X	X	X	X	X	X	X		-05
TRIP BLANK-071719	-	GW	-	↓	1600	1				X					-06
		GW													
		GW													
		GW													
		GW													

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks: \*Nitrate has a 48 hour holding time.

*Tier 2 Lab QA/QC*

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier \_\_\_\_\_

Tracking #

Sample Receipt Checklist  
 COC Seal Present/Intact:  NP  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

**RAD SCREEN: <0.5 mB/hr**

Relinquished by: (Signature)  
*[Signature]*

Date: *7-17-19*

Time: *1600*

Received by: (Signature)

Trip Blank Received:  Yes  No  
 HCL/MeOH  
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: *ASDF °C*  
*4.7-.2=4.5*

Bottles Received: *42+TB*  
If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)  
*Merik P.*

Date: *7/18* Time: *8:45*

Hold: Condition: NCF /  OK





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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.28	J	<u>JO</u>	1.05	25.0	1	07/20/2019 13:06 <a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Benzene	U		0.0896	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Bromobenzene	U		0.133	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Bromochloromethane	U		0.145	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Bromoform	U		0.186	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Bromomethane	U		0.157	2.50	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Carbon disulfide	U		0.101	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Chlorobenzene	U		0.140	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Chloroethane	U		0.141	2.50	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Chloroform	U		0.0860	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Chloromethane	U		0.153	1.25	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Dibromomethane	U		0.117	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
trans-1,4-Dichloro-2-butene	U	UJ	<u>JO</u>	0.257	5.00	1	07/20/2019 13:06 <a href="#">WG1314770</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Ethylbenzene	U		0.158	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
2-Hexanone	U		0.757	5.00	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
n-Hexane	U		0.305	5.00	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Iodomethane	U	UJ	<u>JO</u>	0.377	10.0	1	07/20/2019 13:06 <a href="#">WG1314770</a>
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Methylene Chloride	U		1.07	2.50	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Naphthalene	U	UJ	<u>JO</u>	0.174	2.50	1	07/20/2019 13:06 <a href="#">WG1314770</a>
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
Styrene	U		0.117	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 13:06 <a href="#">WG1314770</a>	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/8/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 13:06	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 13:06	<a href="#">WG1314770</a>
(S) Toluene-d8	98.9			80.0-120		07/20/2019 13:06	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	91.0			77.0-126		07/20/2019 13:06	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	97.7			70.0-130		07/20/2019 13:06	<a href="#">WG1314770</a>

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

JC 8/8/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	139000		2710	20000	1	07/23/2019 21:05	<a href="#">WG1315387</a>

Sample Narrative:

L1119726-02 WG1315387: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	152000		260	5000	5	07/18/2019 13:35	<a href="#">WG1313370</a>
Nitrate	992		22.7	100	1	07/18/2019 13:19	<a href="#">WG1313370</a>
Sulfate	15100		77.4	5000	1	07/18/2019 13:19	<a href="#">WG1313370</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2380		102	1000	1	07/19/2019 12:56	<a href="#">WG1314078</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	786		15.0	100	1	07/18/2019 19:27	<a href="#">WG1313694</a>
Manganese	79.9		0.250	5.00	1	07/18/2019 19:27	<a href="#">WG1313694</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2560	J+	31.6	100	1	07/18/2019 21:09	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 21:09	<a href="#">WG1313748</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	1130		0.287	0.678	1	07/24/2019 13:37	<a href="#">WG1316403</a>
Ethane	9.87		0.296	1.29	1	07/24/2019 13:37	<a href="#">WG1316403</a>
Ethene	27.2		0.422	1.27	1	07/24/2019 13:37	<a href="#">WG1316403</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.54	J J0	1.05	25.0	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Benzene	0.172	J J	0.0896	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a> JC 8/8/19
Bromoform	U		0.186	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 13:27	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/17/19 10:20

L1119726

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 13:27	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 13:27	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 13:27	WG1314770
Chloroform	0.226	J J	0.0860	0.500	1	07/20/2019 13:27	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 13:27	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 13:27	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 13:27	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 13:27	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 13:27	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 13:27	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 13:27	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 13:27	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 13:27	WG1314770
1,1-Dichloroethene	3.40		0.188	0.500	1	07/20/2019 13:27	WG1314770
cis-1,2-Dichloroethene	4940		9.33	50.0	100	07/24/2019 22:33	WG1316884
trans-1,2-Dichloroethene	13.1		0.152	0.500	1	07/20/2019 13:27	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 13:27	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 13:27	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 13:27	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 13:27	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 13:27	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 13:27	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 13:27	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 13:27	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 13:27	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 13:27	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 13:27	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 13:27	WG1314770
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 13:27	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 13:27	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 13:27	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 13:27	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 13:27	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 13:27	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 13:27	WG1314770
Naphthalene	U	UJ JO	0.174	2.50	1	07/20/2019 13:27	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 13:27	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 13:27	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 13:27	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 13:27	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 13:27	WG1314770
Tetrachloroethene	3.14		0.199	0.500	1	07/20/2019 13:27	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 13:27	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 13:27	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 13:27	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 13:27	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 13:27	WG1314770
Trichloroethene	20.4		0.153	0.500	1	07/20/2019 13:27	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 13:27	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 13:27	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 13:27	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 13:27	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 13:27	WG1314770

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/8/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Vinyl chloride	103		0.118	0.500	1	07/20/2019 13:27	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 13:27	<a href="#">WG1314770</a>
(S) Toluene-d8	99.7			80.0-120		07/20/2019 13:27	<a href="#">WG1314770</a>
(S) Toluene-d8	106			80.0-120		07/24/2019 22:33	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	92.4			77.0-126		07/20/2019 13:27	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/24/2019 22:33	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		07/20/2019 13:27	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/24/2019 22:33	<a href="#">WG1316884</a>

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

JC 8/8/19



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.55	J JO	1.05	25.0	1	07/20/2019 13:47	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 13:47	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 13:47	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 13:47	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 13:47	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 13:47	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 13:47	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 13:47	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 13:47	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 13:47	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 13:47	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 13:47	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 13:47	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 13:47	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 13:47	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 13:47	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 13:47	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 13:47	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 13:47	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 13:47	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 13:47	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 13:47	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 13:47	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 13:47	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 13:47	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 13:47	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 13:47	WG1314770
cis-1,2-Dichloroethene	0.787		0.0933	0.500	1	07/24/2019 19:53	WG1316884
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 13:47	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 13:47	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 13:47	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 13:47	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 13:47	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 13:47	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 13:47	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 13:47	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 13:47	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 13:47	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 13:47	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 13:47	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 13:47	WG1314770
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 13:47	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 13:47	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 13:47	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 13:47	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 13:47	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 13:47	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 13:47	WG1314770
Naphthalene	U	UJ JO	0.174	2.50	1	07/20/2019 13:47	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 13:47	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 13:47	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 13:47	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 13:47	WG1314770

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

JC 8/8/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Vinyl chloride	24.3		0.118	0.500	1	07/20/2019 13:47	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 13:47	<a href="#">WG1314770</a>
(S) Toluene-d8	99.6			80.0-120		07/20/2019 13:47	<a href="#">WG1314770</a>
(S) Toluene-d8	107			80.0-120		07/24/2019 19:53	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	89.4			77.0-126		07/20/2019 13:47	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/24/2019 19:53	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	100			70.0-130		07/20/2019 13:47	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/24/2019 19:53	<a href="#">WG1316884</a>

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

JC 8/8/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	314000		2710	20000	1	07/23/2019 21:12	<a href="#">WG1315387</a>

Sample Narrative:

L1119726-04 WG1315387: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	34900		51.9	1000	1	07/18/2019 13:51	<a href="#">WG1313370</a>
Nitrate	U		22.7	100	1	07/18/2019 13:51	<a href="#">WG1313370</a>
Sulfate	7660		77.4	5000	1	07/18/2019 13:51	<a href="#">WG1313370</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3380		102	1000	1	07/19/2019 14:15	<a href="#">WG1314078</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2290		30.0	200	2	07/18/2019 20:05	<a href="#">WG1313694</a>
Manganese	945		1.25	25.0	5	07/18/2019 20:09	<a href="#">WG1313694</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	37.8	U B J	31.6	100	1	07/18/2019 21:32	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 21:32	<a href="#">WG1313748</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	1830		0.287	0.678	1	07/24/2019 13:43	<a href="#">WG1316403</a>
Ethane	U		0.296	1.29	1	07/24/2019 13:43	<a href="#">WG1316403</a>
Ethene	U		0.422	1.27	1	07/24/2019 13:43	<a href="#">WG1316403</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.18	J J J O	1.05	25.0	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 14:08	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>

JC 8/8/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	07/20/2019 14:08	WG1314770	
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 14:08	WG1314770	
Chloroethane	U		0.141	2.50	1	07/20/2019 14:08	WG1314770	
Chloroform	U		0.0860	0.500	1	07/20/2019 14:08	WG1314770	
Chloromethane	U		0.153	1.25	1	07/20/2019 14:08	WG1314770	
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 14:08	WG1314770	
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 14:08	WG1314770	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 14:08	WG1314770	
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 14:08	WG1314770	
Dibromomethane	U		0.117	0.500	1	07/20/2019 14:08	WG1314770	
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 14:08	WG1314770	
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 14:08	WG1314770	
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 14:08	WG1314770	
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 14:08	WG1314770	
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 14:08	WG1314770	
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 14:08	WG1314770	
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 14:08	WG1314770	
cis-1,2-Dichloroethene	0.891		0.0933	0.500	1	07/24/2019 20:14	WG1316884	
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 14:08	WG1314770	
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 14:08	WG1314770	
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 14:08	WG1314770	
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 14:08	WG1314770	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 14:08	WG1314770	
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 14:08	WG1314770	
trans-1,4-Dichloro-2-butene	U	UJ	JO	0.257	5.00	1	07/20/2019 14:08	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 14:08	WG1314770	
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 14:08	WG1314770	
Ethylbenzene	U		0.158	0.500	1	07/20/2019 14:08	WG1314770	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 14:08	WG1314770	
2-Hexanone	U		0.757	5.00	1	07/20/2019 14:08	WG1314770	
n-Hexane	U		0.305	5.00	1	07/20/2019 14:08	WG1314770	
Iodomethane	U	UJ	JO	0.377	10.0	1	07/20/2019 14:08	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 14:08	WG1314770	
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 14:08	WG1314770	
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 14:08	WG1314770	
Methylene Chloride	U		1.07	2.50	1	07/20/2019 14:08	WG1314770	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 14:08	WG1314770	
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 14:08	WG1314770	
Naphthalene	U	UJ	JO	0.174	2.50	1	07/20/2019 14:08	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 14:08	WG1314770	
Styrene	U		0.117	0.500	1	07/20/2019 14:08	WG1314770	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 14:08	WG1314770	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 14:08	WG1314770	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 14:08	WG1314770	
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 14:08	WG1314770	
Toluene	U		0.412	0.500	1	07/20/2019 14:08	WG1314770	
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 14:08	WG1314770	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 14:08	WG1314770	
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 14:08	WG1314770	
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 14:08	WG1314770	
Trichloroethene	U		0.153	0.500	1	07/20/2019 14:08	WG1314770	
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 14:08	WG1314770	
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 14:08	WG1314770	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 14:08	WG1314770	
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 14:08	WG1314770	
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 14:08	WG1314770	

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

JC 8/8/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Vinyl chloride	0.265	J ↓	0.118	0.500	1	07/20/2019 14:08	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 14:08	<a href="#">WG1314770</a>
(S) Toluene-d8	96.8			80.0-120		07/20/2019 14:08	<a href="#">WG1314770</a>
(S) Toluene-d8	108			80.0-120		07/24/2019 20:14	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	90.7			77.0-126		07/20/2019 14:08	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/24/2019 20:14	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/20/2019 14:08	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/24/2019 20:14	<a href="#">WG1316884</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/8/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	240000		2710	20000	1	07/23/2019 21:19	<a href="#">WG1315387</a>

Sample Narrative:

L1119726-05 WG1315387: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	10400		51.9	1000	1	07/18/2019 14:57	<a href="#">WG1313370</a>
Nitrate	1940		22.7	100	1	07/18/2019 14:57	<a href="#">WG1313370</a>
Sulfate	59000		77.4	5000	1	07/18/2019 14:57	<a href="#">WG1313370</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4360		102	1000	1	07/19/2019 14:30	<a href="#">WG1314078</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	691		15.0	100	1	07/18/2019 19:36	<a href="#">WG1313694</a>
Manganese	97.9		0.250	5.00	1	07/18/2019 19:36	<a href="#">WG1313694</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	112	J+	B	31.6	100	07/18/2019 21:54	<a href="#">WG1313748</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		07/18/2019 21:54	<a href="#">WG1313748</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	62.2		0.287	0.678	1	07/24/2019 13:45	<a href="#">WG1316403</a>
Ethane	U		0.296	1.29	1	07/24/2019 13:45	<a href="#">WG1316403</a>
Ethene	U		0.422	1.27	1	07/24/2019 13:45	<a href="#">WG1316403</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.06	J	J JO	1.05	25.0	07/20/2019 14:28	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 14:28	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>

JC 8/8/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 14:28	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 14:28	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 14:28	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 14:28	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 14:28	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 14:28	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 14:28	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 14:28	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 14:28	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 14:28	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 14:28	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 14:28	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 14:28	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 14:28	WG1314770
cis-1,2-Dichloroethene	19.3		0.0933	0.500	1	07/20/2019 14:28	WG1314770
trans-1,2-Dichloroethene	0.262	J U	0.152	0.500	1	07/20/2019 14:28	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 14:28	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 14:28	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 14:28	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 14:28	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 14:28	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 14:28	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 14:28	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 14:28	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 14:28	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 14:28	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 14:28	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 14:28	WG1314770
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 14:28	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 14:28	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 14:28	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 14:28	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 14:28	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 14:28	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 14:28	WG1314770
Naphthalene	U	UJ JO	0.174	2.50	1	07/20/2019 14:28	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 14:28	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 14:28	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 14:28	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 14:28	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 14:28	WG1314770
Tetrachloroethene	169		0.199	0.500	1	07/20/2019 14:28	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 14:28	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 14:28	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 14:28	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 14:28	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 14:28	WG1314770
Trichloroethene	28.9		0.153	0.500	1	07/20/2019 14:28	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 14:28	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 14:28	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 14:28	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 14:28	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 14:28	WG1314770

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

JC 8/8/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 14:28	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 14:28	<a href="#">WG1314770</a>
(S) Toluene-d8	101			80.0-120		07/20/2019 14:28	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	92.8			77.0-126		07/20/2019 14:28	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	98.7			70.0-130		07/20/2019 14:28	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/8/19



Collected date/time: 07/17/19 16:00

L119726

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 14:10	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 14:10	<a href="#">WG1316734</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 12:05	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Dibromomethane	U		0.117	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Ethylbenzene	U		0.158	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
2-Hexanone	U		0.757	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
n-Hexane	U		0.305	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/8/19



Collected date/time: 07/17/19 16:00

L1119726

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Styrene	U		0.117	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 12:05	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 12:05	<a href="#">WG1314770</a>
(S) Toluene-d8	98.1			80.0-120		07/20/2019 12:05	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	94.1			77.0-126		07/20/2019 12:05	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	99.4			70.0-130		07/20/2019 12:05	<a href="#">WG1314770</a>

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

JC 8/8/19

July 26, 2019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## PES Environmental, Inc.- WA

Sample Delivery Group: L1120206  
Samples Received: 07/19/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:

*Brian Ford*

Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





<b>Cp: Cover Page</b>	<b>1</b>	
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	
<b>Cn: Case Narrative</b>	<b>5</b>	
<b>Sr: Sample Results</b>	<b>6</b>	
MW-126-071819 L1120206-01	6	
MW-8-071819 L1120206-02	8	
MW-912-071819 L1120206-03	10	
MW-914-071819 L1120206-04	13	
SCS-2-071819 L1120206-05	15	
MW-147-071819 L1120206-06	17	
MW-102-071819 L1120206-07	20	
MW-161-071819 L1120206-08	23	
MW-128-071819 L1120206-09	26	
TRIP-071819 L1120206-10	28	
<b>Qc: Quality Control Summary</b>	<b>30</b>	
Wet Chemistry by Method 2320 B-2011	30	
Wet Chemistry by Method 9056A	32	
Wet Chemistry by Method 9060A	34	
Metals (ICPMS) by Method 6020B	35	
Volatile Organic Compounds (GC) by Method NWTPHGX	36	
Volatile Organic Compounds (GC) by Method RSK175	38	
Volatile Organic Compounds (GC/MS) by Method 8260C	42	
<b>Gl: Glossary of Terms</b>	<b>47</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>48</b>	
<b>Sc: Sample Chain of Custody</b>	<b>49</b>	

# SAMPLE SUMMARY

## MW-126-071819 L1120206-01 GW

Collected by  
Ben Hecht  
Collected date/time  
07/18/19 07:15  
Received date/time  
07/19/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 15:50	07/20/19 15:50	BMB	Mt. Juliet, TN

## MW-8-071819 L1120206-02 GW

Collected by  
Ben Hecht  
Collected date/time  
07/18/19 09:35  
Received date/time  
07/19/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316070	1	07/23/19 16:47	07/23/19 16:47	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 16:10	07/20/19 16:10	BMB	Mt. Juliet, TN

## MW-912-071819 L1120206-03 GW

Collected by  
Ben Hecht  
Collected date/time  
07/18/19 08:00  
Received date/time  
07/19/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315391	1	07/23/19 13:14	07/23/19 13:14	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314262	1	07/19/19 21:56	07/19/19 21:56	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315213	1	07/22/19 15:59	07/22/19 15:59	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1314861	1	07/20/19 15:39	07/21/19 16:55	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316070	1	07/23/19 17:07	07/23/19 17:07	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1316411	1	07/24/19 16:28	07/24/19 16:28	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 16:31	07/20/19 16:31	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1316884	20	07/24/19 23:00	07/24/19 23:00	ACG	Mt. Juliet, TN

## MW-914-071819 L1120206-04 GW

Collected by  
Ben Hecht  
Collected date/time  
07/18/19 08:20  
Received date/time  
07/19/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316070	1	07/23/19 17:28	07/23/19 17:28	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 16:51	07/20/19 16:51	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1316884	1	07/24/19 20:36	07/24/19 20:36	ACG	Mt. Juliet, TN

## SCS-2-071819 L1120206-05 GW

Collected by  
Ben Hecht  
Collected date/time  
07/18/19 10:35  
Received date/time  
07/19/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316070	1	07/23/19 17:48	07/23/19 17:48	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 17:12	07/20/19 17:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1316884	10	07/24/19 23:22	07/24/19 23:22	ACG	Mt. Juliet, TN

## MW-147-071819 L1120206-06 GW

Collected by  
Ben Hecht  
Collected date/time  
07/18/19 10:45  
Received date/time  
07/19/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315970	1	07/24/19 16:46	07/24/19 16:46	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314262	1	07/19/19 22:13	07/19/19 22:13	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315213	1	07/22/19 16:13	07/22/19 16:13	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1314861	1	07/20/19 15:39	07/21/19 16:58	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316070	1	07/23/19 18:09	07/23/19 18:09	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1316410	1	07/24/19 12:36	07/24/19 12:36	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 17:32	07/20/19 17:32	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1316884	20	07/24/19 23:44	07/24/19 23:44	ACG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

# SAMPLE SUMMARY



## MW-102-071819 L1120206-07 GW

Collected by  
Ben Hecht  
Collected date/time  
07/18/19 12:15  
Received date/time  
07/19/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315970	1	07/24/19 16:56	07/24/19 16:56	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314262	1	07/19/19 22:31	07/19/19 22:31	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315213	1	07/22/19 16:25	07/22/19 16:25	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1314861	1	07/20/19 15:39	07/21/19 17:01	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316070	1	07/23/19 18:29	07/23/19 18:29	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1316410	1	07/24/19 12:40	07/24/19 12:40	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 17:53	07/20/19 17:53	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1316884	1	07/24/19 20:58	07/24/19 20:58	ACG	Mt. Juliet, TN

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

## MW-161-071819 L1120206-08 GW

Collected by  
Ben Hecht  
Collected date/time  
07/18/19 14:15  
Received date/time  
07/19/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315970	1	07/24/19 17:04	07/24/19 17:04	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314262	1	07/19/19 23:24	07/19/19 23:24	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315213	1	07/22/19 16:38	07/22/19 16:38	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1314861	1	07/20/19 15:39	07/21/19 17:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316070	1	07/23/19 18:50	07/23/19 18:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1316410	1	07/24/19 12:58	07/24/19 12:58	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 18:13	07/20/19 18:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1316884	1	07/24/19 21:46	07/24/19 21:46	ACG	Mt. Juliet, TN

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-128-071819 L1120206-09 GW

Collected by  
Ben Hecht  
Collected date/time  
07/18/19 14:15  
Received date/time  
07/19/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1315970	1	07/24/19 20:29	07/24/19 20:29	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314262	1	07/19/19 23:41	07/19/19 23:41	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315213	1	07/22/19 17:30	07/22/19 17:30	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1314861	1	07/20/19 15:39	07/21/19 17:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1316410	1	07/24/19 13:08	07/24/19 13:08	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317135	10	07/25/19 11:17	07/25/19 11:17	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 18:33	07/20/19 18:33	BMB	Mt. Juliet, TN

## TRIP-071819 L1120206-10 GW

Collected by  
Ben Hecht  
Collected date/time  
07/18/19 16:30  
Received date/time  
07/19/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 14:34	07/24/19 14:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1314770	1	07/20/19 12:25	07/20/19 12:25	BMB	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

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



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.96	J JO	1.05	25.0	1	07/20/2019 15:50	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 15:50	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 15:50	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 15:50	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 15:50	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 15:50	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 15:50	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 15:50	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 15:50	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 15:50	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 15:50	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 15:50	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 15:50	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 15:50	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 15:50	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 15:50	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 15:50	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 15:50	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 15:50	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 15:50	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 15:50	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 15:50	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 15:50	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 15:50	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 15:50	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 15:50	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 15:50	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 15:50	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 15:50	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 15:50	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 15:50	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 15:50	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 15:50	WG1314770
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/20/2019 15:50	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 15:50	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 15:50	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 15:50	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 15:50	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 15:50	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 15:50	WG1314770
Iodomethane	U	JO	0.377	10.0	1	07/20/2019 15:50	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 15:50	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 15:50	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 15:50	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 15:50	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 15:50	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 15:50	WG1314770
Naphthalene	U	JO	0.174	2.50	1	07/20/2019 15:50	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 15:50	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 15:50	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 15:50	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 15:50	WG1314770

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 15:50	<a href="#">WG1314770</a>
(S) Toluene-d8	101			80.0-120		07/20/2019 15:50	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	93.0			77.0-126		07/20/2019 15:50	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	98.3			70.0-130		07/20/2019 15:50	<a href="#">WG1314770</a>

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



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/23/2019 16:47	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		07/23/2019 16:47	<a href="#">WG1316070</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.98	<u>J JO</u>	1.05	25.0	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 16:10	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Dibromomethane	U		0.117	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Ethylbenzene	U		0.158	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
2-Hexanone	U		0.757	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
n-Hexane	U		0.305	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Styrene	U		0.117	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
(S) Toluene-d8	99.9			80.0-120		07/20/2019 16:10	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	93.9			77.0-126		07/20/2019 16:10	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		07/20/2019 16:10	<a href="#">WG1314770</a>

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





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	310000		2710	20000	1	07/23/2019 13:14	<a href="#">WG1315391</a>

Sample Narrative:

L1120206-03 WG1315391: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	18800		51.9	1000	1	07/19/2019 21:56	<a href="#">WG1314262</a>
Nitrate	89.0	J	22.7	100	1	07/19/2019 21:56	<a href="#">WG1314262</a>
Sulfate	29400		77.4	5000	1	07/19/2019 21:56	<a href="#">WG1314262</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	11700		102	1000	1	07/22/2019 15:59	<a href="#">WG1315213</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2400		15.0	100	1	07/21/2019 16:55	<a href="#">WG1314861</a>
Manganese	724		0.250	5.00	1	07/21/2019 16:55	<a href="#">WG1314861</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	170		31.6	100	1	07/23/2019 17:07	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		07/23/2019 17:07	<a href="#">WG1316070</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	5830		0.287	0.678	1	07/24/2019 16:28	<a href="#">WG1316411</a>
Ethane	U		0.296	1.29	1	07/24/2019 16:28	<a href="#">WG1316411</a>
Ethene	202		0.422	1.27	1	07/24/2019 16:28	<a href="#">WG1316411</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.34	J JO	1.05	25.0	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 16:31	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 16:31	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 16:31	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 16:31	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 16:31	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 16:31	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 16:31	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 16:31	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 16:31	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 16:31	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 16:31	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 16:31	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 16:31	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 16:31	WG1314770
1,1-Dichloroethene	1.30		0.188	0.500	1	07/20/2019 16:31	WG1314770
cis-1,2-Dichloroethene	286		1.87	10.0	20	07/24/2019 23:00	WG1316884
trans-1,2-Dichloroethene	2.12		0.152	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 16:31	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 16:31	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 16:31	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 16:31	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 16:31	WG1314770
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/20/2019 16:31	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 16:31	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 16:31	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 16:31	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 16:31	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 16:31	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 16:31	WG1314770
Iodomethane	U	JO	0.377	10.0	1	07/20/2019 16:31	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 16:31	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 16:31	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 16:31	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 16:31	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 16:31	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 16:31	WG1314770
Naphthalene	U	JO	0.174	2.50	1	07/20/2019 16:31	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 16:31	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 16:31	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 16:31	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 16:31	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 16:31	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 16:31	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 16:31	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 16:31	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 16:31	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 16:31	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 16:31	WG1314770
Trichloroethene	4.72		0.153	0.500	1	07/20/2019 16:31	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 16:31	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 16:31	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 16:31	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 16:31	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 16:31	WG1314770

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Vinyl chloride	425		2.36	10.0	20	07/24/2019 23:00	<a href="#">WG1316884</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 16:31	<a href="#">WG1314770</a>
<i>(S) Toluene-d8</i>	97.0			80.0-120		07/20/2019 16:31	<a href="#">WG1314770</a>
<i>(S) Toluene-d8</i>	105			80.0-120		07/24/2019 23:00	<a href="#">WG1316884</a>
<i>(S) 4-Bromofluorobenzene</i>	94.8			77.0-126		07/20/2019 16:31	<a href="#">WG1314770</a>
<i>(S) 4-Bromofluorobenzene</i>	99.4			77.0-126		07/24/2019 23:00	<a href="#">WG1316884</a>
<i>(S) 1,2-Dichloroethane-d4</i>	98.8			70.0-130		07/20/2019 16:31	<a href="#">WG1314770</a>
<i>(S) 1,2-Dichloroethane-d4</i>	107			70.0-130		07/24/2019 23:00	<a href="#">WG1316884</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2320		31.6	100	1	07/23/2019 17:28	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		07/23/2019 17:28	<a href="#">WG1316070</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Benzene	15.0		0.0896	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
n-Butylbenzene	3.05		0.143	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
sec-Butylbenzene	2.44		0.134	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 16:51	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Dibromomethane	U		0.117	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/24/2019 20:36	<a href="#">WG1316884</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Di-isopropyl ether	0.854		0.0924	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Ethylbenzene	187		0.158	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
2-Hexanone	U		0.757	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
n-Hexane	12.2		0.305	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Isopropylbenzene	17.5		0.126	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
p-Isopropyltoluene	0.698		0.138	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Naphthalene	104	<u>JO</u>	0.174	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
n-Propylbenzene	43.2		0.162	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Styrene	U		0.117	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Toluene	3.37		0.412	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	145		0.123	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	82.3		0.0739	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	11.6		0.124	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Vinyl chloride	0.242	<u>U</u>	0.118	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Xylenes, Total	131		0.316	1.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
(S) Toluene-d8	84.4			80.0-120		07/20/2019 16:51	<a href="#">WG1314770</a>
(S) Toluene-d8	103			80.0-120		07/24/2019 20:36	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	87.4			77.0-126		07/20/2019 16:51	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/24/2019 20:36	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/20/2019 16:51	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/24/2019 20:36	<a href="#">WG1316884</a>

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



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2190		31.6	100	1	07/23/2019 17:48	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	99.8			78.0-120		07/23/2019 17:48	<a href="#">WG1316070</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Benzene	15.5		0.0896	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
n-Butylbenzene	3.10		0.143	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
sec-Butylbenzene	2.39		0.134	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 17:12	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Dibromomethane	U		0.117	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Di-isopropyl ether	0.893		0.0924	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Ethylbenzene	141		1.58	5.00	10	07/24/2019 23:22	<a href="#">WG1316884</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
2-Hexanone	U		0.757	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
n-Hexane	12.6		0.305	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Isopropylbenzene	18.7		0.126	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
p-Isopropyltoluene	0.760		0.138	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Naphthalene	115	<u>JO</u>	0.174	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
n-Propylbenzene	46.2		0.162	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Styrene	U		0.117	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Toluene	3.71		0.412	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	157		0.123	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	88.3		0.0739	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	12.8		0.124	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Xylenes, Total	149		0.316	1.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
(S) Toluene-d8	85.1			80.0-120		07/20/2019 17:12	<a href="#">WG1314770</a>
(S) Toluene-d8	106			80.0-120		07/24/2019 23:22	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	87.7			77.0-126		07/20/2019 17:12	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/24/2019 23:22	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	100			70.0-130		07/20/2019 17:12	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/24/2019 23:22	<a href="#">WG1316884</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	307000		2710	20000	1	07/24/2019 16:46	<a href="#">WG1315970</a>

Sample Narrative:

L1120206-06 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	19300		51.9	1000	1	07/19/2019 22:13	<a href="#">WG1314262</a>
Nitrate	U		22.7	100	1	07/19/2019 22:13	<a href="#">WG1314262</a>
Sulfate	30000		77.4	5000	1	07/19/2019 22:13	<a href="#">WG1314262</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	9560		102	1000	1	07/22/2019 16:13	<a href="#">WG1315213</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3800		15.0	100	1	07/21/2019 16:58	<a href="#">WG1314861</a>
Manganese	750		0.250	5.00	1	07/21/2019 16:58	<a href="#">WG1314861</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	175		31.6	100	1	07/23/2019 18:09	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		07/23/2019 18:09	<a href="#">WG1316070</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	5450		0.287	0.678	1	07/24/2019 12:36	<a href="#">WG1316410</a>
Ethane	U		0.296	1.29	1	07/24/2019 12:36	<a href="#">WG1316410</a>
Ethene	191		0.422	1.27	1	07/24/2019 12:36	<a href="#">WG1316410</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.11	J JO	1.05	25.0	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 17:32	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 17:32	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 17:32	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 17:32	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 17:32	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 17:32	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 17:32	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 17:32	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 17:32	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 17:32	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 17:32	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 17:32	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 17:32	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 17:32	WG1314770
1,1-Dichloroethene	1.33		0.188	0.500	1	07/20/2019 17:32	WG1314770
cis-1,2-Dichloroethene	219		1.87	10.0	20	07/24/2019 23:44	WG1316884
trans-1,2-Dichloroethene	2.49		0.152	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 17:32	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 17:32	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 17:32	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 17:32	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 17:32	WG1314770
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/20/2019 17:32	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 17:32	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 17:32	WG1314770
Ethylbenzene	U		3.16	10.0	20	07/24/2019 23:44	WG1316884
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 17:32	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 17:32	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 17:32	WG1314770
Iodomethane	U	JO	0.377	10.0	1	07/20/2019 17:32	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 17:32	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 17:32	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 17:32	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 17:32	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 17:32	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 17:32	WG1314770
Naphthalene	5.94	J	3.48	50.0	20	07/24/2019 23:44	WG1316884
n-Propylbenzene	U		3.24	10.0	20	07/24/2019 23:44	WG1316884
Styrene	U		0.117	0.500	1	07/20/2019 17:32	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 17:32	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 17:32	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 17:32	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 17:32	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 17:32	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 17:32	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 17:32	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 17:32	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 17:32	WG1314770
Trichloroethene	4.79		0.153	0.500	1	07/20/2019 17:32	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 17:32	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 17:32	WG1314770
1,2,4-Trimethylbenzene	U		2.46	10.0	20	07/24/2019 23:44	WG1316884
1,2,3-Trimethylbenzene	U		1.48	10.0	20	07/24/2019 23:44	WG1316884
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 17:32	WG1314770

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Vinyl chloride	446		2.36	10.0	20	07/24/2019 23:44	<a href="#">WG1316884</a>
Xylenes, Total	U		6.32	30.0	20	07/24/2019 23:44	<a href="#">WG1316884</a>
(S) Toluene-d8	99.8			80.0-120		07/20/2019 17:32	<a href="#">WG1314770</a>
(S) Toluene-d8	109			80.0-120		07/24/2019 23:44	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	92.1			77.0-126		07/20/2019 17:32	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/24/2019 23:44	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/20/2019 17:32	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/24/2019 23:44	<a href="#">WG1316884</a>

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

Sample Narrative:

L1120206-06 WG1314770, WG1316884: Not all compounds reportable at lower dilution.  
 L1120206-06 WG1314770, WG1316884: Cannot be reanalyzed at lower dilution due to high levels of target analytes.



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	167000		2710	20000	1	07/24/2019 16:56	<a href="#">WG1315970</a>

Sample Narrative:

L1120206-07 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	5580		51.9	1000	1	07/19/2019 22:31	<a href="#">WG1314262</a>
Nitrate	U		22.7	100	1	07/19/2019 22:31	<a href="#">WG1314262</a>
Sulfate	1830	J	77.4	5000	1	07/19/2019 22:31	<a href="#">WG1314262</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4760		102	1000	1	07/22/2019 16:25	<a href="#">WG1315213</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	7160		15.0	100	1	07/21/2019 17:01	<a href="#">WG1314861</a>
Manganese	353		0.250	5.00	1	07/21/2019 17:01	<a href="#">WG1314861</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/23/2019 18:29	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		07/23/2019 18:29	<a href="#">WG1316070</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	290		0.287	0.678	1	07/24/2019 12:40	<a href="#">WG1316410</a>
Ethane	U		0.296	1.29	1	07/24/2019 12:40	<a href="#">WG1316410</a>
Ethene	U		0.422	1.27	1	07/24/2019 12:40	<a href="#">WG1316410</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.74	J JO	1.05	25.0	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 17:53	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 17:53	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 17:53	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 17:53	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 17:53	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 17:53	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 17:53	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 17:53	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 17:53	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 17:53	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 17:53	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 17:53	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 17:53	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 17:53	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 17:53	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/24/2019 20:58	WG1316884
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 17:53	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 17:53	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 17:53	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 17:53	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 17:53	WG1314770
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/20/2019 17:53	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 17:53	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 17:53	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 17:53	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 17:53	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 17:53	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 17:53	WG1314770
Iodomethane	U	JO	0.377	10.0	1	07/20/2019 17:53	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 17:53	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 17:53	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 17:53	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 17:53	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 17:53	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 17:53	WG1314770
Naphthalene	2.11	J	0.174	2.50	1	07/24/2019 20:58	WG1316884
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 17:53	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 17:53	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 17:53	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 17:53	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 17:53	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 17:53	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 17:53	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 17:53	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 17:53	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 17:53	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 17:53	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 17:53	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 17:53	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 17:53	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 17:53	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 17:53	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 17:53	WG1314770

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/24/2019 20:58	<a href="#">WG1316884</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 17:53	<a href="#">WG1314770</a>
<i>(S) Toluene-d8</i>	97.8			80.0-120		07/20/2019 17:53	<a href="#">WG1314770</a>
<i>(S) Toluene-d8</i>	110			80.0-120		07/24/2019 20:58	<a href="#">WG1316884</a>
<i>(S) 4-Bromofluorobenzene</i>	97.3			77.0-126		07/20/2019 17:53	<a href="#">WG1314770</a>
<i>(S) 4-Bromofluorobenzene</i>	105			77.0-126		07/24/2019 20:58	<a href="#">WG1316884</a>
<i>(S) 1,2-Dichloroethane-d4</i>	101			70.0-130		07/20/2019 17:53	<a href="#">WG1314770</a>
<i>(S) 1,2-Dichloroethane-d4</i>	106			70.0-130		07/24/2019 20:58	<a href="#">WG1316884</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	284000		2710	20000	1	07/24/2019 17:04	<a href="#">WG1315970</a>

Sample Narrative:

L1120206-08 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	26500		51.9	1000	1	07/19/2019 23:24	<a href="#">WG1314262</a>
Nitrate	U		22.7	100	1	07/19/2019 23:24	<a href="#">WG1314262</a>
Sulfate	14100		77.4	5000	1	07/19/2019 23:24	<a href="#">WG1314262</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1610	<u>B</u>	102	1000	1	07/22/2019 16:38	<a href="#">WG1315213</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1300		15.0	100	1	07/21/2019 17:21	<a href="#">WG1314861</a>
Manganese	694		0.250	5.00	1	07/21/2019 17:21	<a href="#">WG1314861</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/23/2019 18:50	<a href="#">WG1316070</a>
<sup>(S)</sup> a,a,a-Trifluorotoluene(FID)	106			78.0-120		07/23/2019 18:50	<a href="#">WG1316070</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	139		0.287	0.678	1	07/24/2019 12:58	<a href="#">WG1316410</a>
Ethane	U		0.296	1.29	1	07/24/2019 12:58	<a href="#">WG1316410</a>
Ethene	U		0.422	1.27	1	07/24/2019 12:58	<a href="#">WG1316410</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.22	<u>J JO</u>	1.05	25.0	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 18:13	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 18:13	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 18:13	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 18:13	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 18:13	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 18:13	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 18:13	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 18:13	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 18:13	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 18:13	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 18:13	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 18:13	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 18:13	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 18:13	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 18:13	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 18:13	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 18:13	WG1314770
1,1-Dichloroethene	0.609		0.188	0.500	1	07/20/2019 18:13	WG1314770
cis-1,2-Dichloroethene	1.58		0.0933	0.500	1	07/20/2019 18:13	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 18:13	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 18:13	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 18:13	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 18:13	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 18:13	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 18:13	WG1314770
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/20/2019 18:13	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 18:13	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 18:13	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 18:13	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 18:13	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 18:13	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 18:13	WG1314770
Iodomethane	U	JO	0.377	10.0	1	07/20/2019 18:13	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 18:13	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 18:13	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 18:13	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 18:13	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 18:13	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 18:13	WG1314770
Naphthalene	0.353	I	0.174	2.50	1	07/24/2019 21:46	WG1316884
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 18:13	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 18:13	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 18:13	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 18:13	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 18:13	WG1314770
Tetrachloroethene	0.264	I	0.199	0.500	1	07/20/2019 18:13	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 18:13	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 18:13	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 18:13	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 18:13	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 18:13	WG1314770
Trichloroethene	1.53		0.153	0.500	1	07/20/2019 18:13	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 18:13	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 18:13	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 18:13	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 18:13	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 18:13	WG1314770

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 18:13	<a href="#">WG1314770</a>
(S) Toluene-d8	99.6			80.0-120		07/20/2019 18:13	<a href="#">WG1314770</a>
(S) Toluene-d8	105			80.0-120		07/24/2019 21:46	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	91.4			77.0-126		07/20/2019 18:13	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/24/2019 21:46	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/20/2019 18:13	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/24/2019 21:46	<a href="#">WG1316884</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	601000		2710	20000	1	07/24/2019 20:29	<a href="#">WG1315970</a>

Sample Narrative:

L1120206-09 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	22300		51.9	1000	1	07/19/2019 23:41	<a href="#">WG1314262</a>
Nitrate	U		22.7	100	1	07/19/2019 23:41	<a href="#">WG1314262</a>
Sulfate	4340	J	77.4	5000	1	07/19/2019 23:41	<a href="#">WG1314262</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6940		102	1000	1	07/22/2019 17:30	<a href="#">WG1315213</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	12400		15.0	100	1	07/21/2019 17:24	<a href="#">WG1314861</a>
Manganese	409		0.250	5.00	1	07/21/2019 17:24	<a href="#">WG1314861</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	15500		2.87	6.78	10	07/25/2019 11:17	<a href="#">WG1317135</a>
Ethane	16.4		0.296	1.29	1	07/24/2019 13:08	<a href="#">WG1316410</a>
Ethene	68.3		0.422	1.27	1	07/24/2019 13:08	<a href="#">WG1316410</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.24	J JO	1.05	25.0	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Benzene	12.2		0.0896	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 18:33	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 18:33	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 18:33	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 18:33	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 18:33	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 18:33	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 18:33	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 18:33	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 18:33	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 18:33	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 18:33	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 18:33	WG1314770
cis-1,2-Dichloroethene	1.88		0.0933	0.500	1	07/20/2019 18:33	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 18:33	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 18:33	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 18:33	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 18:33	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 18:33	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 18:33	WG1314770
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/20/2019 18:33	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 18:33	WG1314770
Di-isopropyl ether	0.161	J	0.0924	0.500	1	07/20/2019 18:33	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 18:33	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 18:33	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 18:33	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 18:33	WG1314770
Iodomethane	U	JO	0.377	10.0	1	07/20/2019 18:33	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 18:33	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 18:33	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 18:33	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 18:33	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 18:33	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 18:33	WG1314770
Naphthalene	U	JO	0.174	2.50	1	07/20/2019 18:33	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 18:33	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 18:33	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 18:33	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 18:33	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 18:33	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 18:33	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 18:33	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 18:33	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 18:33	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 18:33	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 18:33	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 18:33	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 18:33	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 18:33	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 18:33	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 18:33	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 18:33	WG1314770
Vinyl acetate	U		0.645	5.00	1	07/20/2019 18:33	WG1314770
Vinyl chloride	108		0.118	0.500	1	07/20/2019 18:33	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 18:33	WG1314770
(S) Toluene-d8	99.6			80.0-120		07/20/2019 18:33	WG1314770
(S) 4-Bromofluorobenzene	94.9			77.0-126		07/20/2019 18:33	WG1314770
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/20/2019 18:33	WG1314770

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 14:34	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 14:34	<a href="#">WG1316734</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 12:25	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Dibromomethane	U		0.117	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Ethylbenzene	U		0.158	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
2-Hexanone	U		0.757	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
n-Hexane	U		0.305	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Styrene	U		0.117	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
(S) Toluene-d8	101			80.0-120		07/20/2019 12:25	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	92.9			77.0-126		07/20/2019 12:25	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/20/2019 12:25	<a href="#">WG1314770</a>

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



Method Blank (MB)

(MB) R3433429-1 07/23/19 10:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	U		2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5 HEADSPACE

L1120205-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1120205-05 07/23/19 12:44 • (DUP) R3433429-4 07/23/19 12:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	490000	488000	1	0.379		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE  
 DUP: Endpoint pH 4.5 HEADSPACE

Laboratory Control Sample (LCS)

(LCS) R3433429-3 07/23/19 11:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	103000	103	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5 HEADSPACE

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3434039-1 07/24/19 16:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	3140	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1120245-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1120245-01 07/24/19 17:46 • (DUP) R3434039-2 07/24/19 17:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	281000	281000	1	0.165		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

L1120245-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1120245-05 07/24/19 18:52 • (DUP) R3434039-4 07/24/19 19:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	423000	424000	1	0.260		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3434039-3 07/24/19 18:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	98200	98.2	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3432539-1 07/19/19 11:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1120147-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1120147-03 07/19/19 13:25 • (DUP) R3432539-3 07/19/19 13:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	59300	59200	1	0.185		15
Nitrate	6010	6050	1	0.730		15

L1120206-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1120206-09 07/19/19 23:41 • (DUP) R3432539-6 07/19/19 23:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	22300	22300	1	0.0291		15
Nitrate	U	0.000	1	0.000		15
Sulfate	4340	4300	1	0.914	↓	15

L1120147-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1120147-03 07/19/19 14:35 • (DUP) R3432539-8 07/20/19 07:46

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	134000	134000	5	0.0978		15

Laboratory Control Sample (LCS)

(LCS) R3432539-2 07/19/19 11:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	39900	99.8	80.0-120	
Nitrate	8000	8180	102	80.0-120	
Sulfate	40000	40400	101	80.0-120	



L1120147-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120147-03 07/19/19 13:25 • (MS) R3432539-4 07/19/19 14:00 • (MSD) R3432539-5 07/19/19 14:17

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	59300	107000	107000	96.1	96.0	1	80.0-120	E	E	0.0541	15
Nitrate	5000	6010	10900	10800	97.5	96.7	1	80.0-120	E	E	0.351	15

1 Cp

2 Tc

3 Ss

L1120206-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1120206-09 07/19/19 23:41 • (MS) R3432539-7 07/20/19 00:17

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	22300	72200	99.8	1	80.0-120	
Nitrate	5000	U	5010	100	1	80.0-120	
Sulfate	50000	4340	52300	95.9	1	80.0-120	

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3433105-1 07/22/19 11:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	231	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1120475-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1120475-03 07/22/19 20:40 • (DUP) R3433105-8 07/22/19 20:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	9040	9000	1	0.510		20

Laboratory Control Sample (LCS)

(LCS) R3433105-2 07/22/19 12:12

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	74200	98.9	85.0-115	

L1120206-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120206-08 07/22/19 16:38 • (MS) R3433105-4 07/22/19 16:59 • (MSD) R3433105-5 07/22/19 17:15

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1610	51300	51700	99.3	100	1	80.0-120			0.797	20

L1120208-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120208-04 07/22/19 19:11 • (MS) R3433105-6 07/22/19 19:29 • (MSD) R3433105-7 07/22/19 19:46

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	2010	52300	52900	101	102	1	80.0-120			1.27	20



Method Blank (MB)

(MB) R3432720-1 07/21/19 16:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	25.6	↓	15.0	100
Manganese	U		0.250	5.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432720-2 07/21/19 16:35 • (LCSD) R3432720-3 07/21/19 16:38

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	5090	4920	102	98.5	80.0-120			3.41	20
Manganese	50.0	49.9	48.7	99.8	97.4	80.0-120			2.42	20

L1120205-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120205-06 07/21/19 16:42 • (MS) R3432720-5 07/21/19 16:48 • (MSD) R3432720-6 07/21/19 16:52

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	223	5050	5220	96.6	100	1	75.0-125			3.30	20
Manganese	50.0	38.3	83.9	85.4	91.2	94.0	1	75.0-125			1.67	20



Method Blank (MB)

(MB) R3433944-2 07/23/19 11:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3433944-1 07/23/19 10:47

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5580	101	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			95.6	78.0-120	

L1120206-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120206-02 07/23/19 16:47 • (MS) R3433944-3 07/23/19 19:10 • (MSD) R3433944-4 07/23/19 19:31

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	U	3030	3340	55.1	60.7	1	10.0-155			9.54	21
(S) a,a,a-Trifluorotoluene(FID)					103	103		78.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3433855-3 07/24/19 13:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3433855-2 07/24/19 12:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5440	99.0	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			94.7	78.0-120	



Method Blank (MB)

(MB) R3433738-1 07/24/19 10:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1120208-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1120208-01 07/24/19 10:57 • (DUP) R3433738-2 07/24/19 11:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	14.5	16.8	1	14.9		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

L1120206-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1120206-07 07/24/19 12:40 • (DUP) R3433738-3 07/24/19 13:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	290	289	1	0.382		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433738-4 07/24/19 13:14 • (LCSD) R3433738-5 07/24/19 13:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	77.8	73.3	115	108	85.0-115			5.86	20
Ethane	129	122	120	94.9	92.7	85.0-115			2.45	20
Ethene	127	121	118	95.4	92.6	85.0-115			3.02	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3433893-1 07/24/19 15:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1120245-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1120245-04 07/24/19 15:24 • (DUP) R3433893-2 07/24/19 15:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	661	628	1	5.11		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

L1119782-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1119782-03 07/24/19 16:13 • (DUP) R3433893-3 07/24/19 16:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1990	2020	1	1.66		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433893-6 07/24/19 16:43 • (LCSD) R3433893-7 07/24/19 16:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	74.4	75.3	110	111	85.0-115			1.23	20
Ethane	129	122	124	94.4	95.9	85.0-115			1.61	20
Ethene	127	121	123	95.0	96.5	85.0-115			1.56	20



L1120245-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120245-01 07/24/19 15:13 • (MS) R3433893-4 07/24/19 16:35 • (MSD) R3433893-5 07/24/19 16:37

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Methane	67.8	66.5	145	125	115	86.5	1	85.0-115			14.4	20
Ethane	129	U	132	116	102	90.3	1	85.0-115			12.6	20
Ethene	127	U	131	115	103	90.4	1	85.0-115			12.8	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3434214-1 07/25/19 11:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Methane	U		0.287	0.678

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

L1120270-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1120270-03 07/25/19 11:25 • (DUP) R3434214-2 07/25/19 11:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	U	0.000	1	0.000		20

<sup>6</sup> Qc

L1120270-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1120270-13 07/25/19 12:57 • (DUP) R3434214-3 07/25/19 13:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	58.9	56.1	1	4.93		20

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434214-8 07/25/19 13:38 • (LCSD) R3434214-9 07/25/19 13:42

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Methane	67.8	73.7	70.9	109	105	85.0-115			3.89	20

L1120270-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120270-05 07/25/19 11:30 • (MS) R3434214-4 07/25/19 13:26 • (MSD) R3434214-5 07/25/19 13:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Methane	67.8	9330	9490	9560	224	338	1	85.0-115	<u>E V</u>	<u>E V</u>	0.810	20

L1120270-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120270-14 07/25/19 12:59 • (MS) R3434214-6 07/25/19 13:30 • (MSD) R3434214-7 07/25/19 13:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Methane	67.8	32200	31700	32500	0.000	564	1	85.0-115	<u>E V</u>	<u>E V</u>	2.58	20





Method Blank (MB)

(MB) R3433853-2 07/20/19 11:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3433853-2 07/20/19 11:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	102			80.0-120
(S) 4-Bromofluorobenzene	95.8			77.0-126
(S) 1,2-Dichloroethane-d4	101			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3433853-1 07/20/19 10:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	125	150	120	19.0-160	
Acrylonitrile	125	139	111	55.0-149	
Benzene	25.0	25.2	101	70.0-123	
Bromobenzene	25.0	21.3	85.0	73.0-121	
Bromodichloromethane	25.0	24.3	97.4	75.0-120	
Bromochloromethane	25.0	23.3	93.1	76.0-122	
Bromoform	25.0	26.4	106	68.0-132	
Bromomethane	25.0	23.5	93.9	10.0-160	
n-Butylbenzene	25.0	23.0	92.1	73.0-125	
sec-Butylbenzene	25.0	22.4	89.5	75.0-125	
tert-Butylbenzene	25.0	23.0	91.8	76.0-124	
Carbon disulfide	25.0	26.5	106	61.0-128	
Carbon tetrachloride	25.0	27.1	108	68.0-126	
Chlorobenzene	25.0	25.3	101	80.0-121	
Chlorodibromomethane	25.0	26.9	108	77.0-125	
Chloroethane	25.0	27.4	110	47.0-150	
Chloroform	25.0	25.2	101	73.0-120	
Chloromethane	25.0	20.5	81.8	41.0-142	
2-Chlorotoluene	25.0	21.8	87.1	76.0-123	
4-Chlorotoluene	25.0	21.5	85.9	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	20.6	82.3	58.0-134	
1,2-Dibromoethane	25.0	25.0	99.9	80.0-122	
Dibromomethane	25.0	25.7	103	80.0-120	
1,2-Dichlorobenzene	25.0	24.1	96.3	79.0-121	
1,3-Dichlorobenzene	25.0	23.7	94.9	79.0-120	
1,4-Dichlorobenzene	25.0	23.2	93.0	79.0-120	
Dichlorodifluoromethane	25.0	36.0	144	51.0-149	
1,1-Dichloroethane	25.0	25.5	102	70.0-126	
1,2-Dichloroethane	25.0	25.7	103	70.0-128	
1,1-Dichloroethene	25.0	25.4	102	71.0-124	
cis-1,2-Dichloroethene	25.0	25.4	102	73.0-120	
trans-1,2-Dichloroethene	25.0	27.4	110	73.0-120	
1,2-Dichloropropane	25.0	25.8	103	77.0-125	
1,1-Dichloropropene	25.0	27.7	111	74.0-126	
1,3-Dichloropropane	25.0	23.9	95.6	80.0-120	
cis-1,3-Dichloropropene	25.0	25.2	101	80.0-123	
trans-1,3-Dichloropropene	25.0	24.8	99.4	78.0-124	
trans-1,4-Dichloro-2-butene	25.0	19.1	76.4	33.0-144	
2,2-Dichloropropane	25.0	21.1	84.5	58.0-130	
Di-isopropyl ether	25.0	25.6	103	58.0-138	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3433853-1 07/20/19 10:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	25.0	25.6	102	79.0-123	
Hexachloro-1,3-butadiene	25.0	21.1	84.4	54.0-138	
2-Hexanone	125	122	97.6	67.0-149	
n-Hexane	25.0	24.3	97.4	57.0-133	
Iodomethane	125	92.2	73.8	33.0-147	
Isopropylbenzene	25.0	25.6	102	76.0-127	
p-Isopropyltoluene	25.0	23.8	95.2	76.0-125	
2-Butanone (MEK)	125	126	101	44.0-160	
Methylene Chloride	25.0	25.2	101	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	125	99.8	68.0-142	
Methyl tert-butyl ether	25.0	25.0	99.8	68.0-125	
Naphthalene	25.0	19.0	76.0	54.0-135	
n-Propylbenzene	25.0	23.0	92.0	77.0-124	
Styrene	25.0	26.9	108	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	25.1	100	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	22.1	88.4	65.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	21.9	87.8	69.0-132	
Tetrachloroethene	25.0	25.7	103	72.0-132	
Toluene	25.0	24.0	95.8	79.0-120	
1,2,3-Trichlorobenzene	25.0	22.7	90.7	50.0-138	
1,2,4-Trichlorobenzene	25.0	22.2	88.8	57.0-137	
1,1,1-Trichloroethane	25.0	26.9	107	73.0-124	
1,1,2-Trichloroethane	25.0	23.5	94.0	80.0-120	
Trichloroethene	25.0	24.0	95.9	78.0-124	
Trichlorofluoromethane	25.0	28.6	115	59.0-147	
1,2,3-Trichloropropane	25.0	23.2	92.7	73.0-130	
1,2,4-Trimethylbenzene	25.0	23.1	92.5	76.0-121	
1,2,3-Trimethylbenzene	25.0	27.5	110	77.0-120	
1,3,5-Trimethylbenzene	25.0	23.1	92.3	76.0-122	
Vinyl acetate	125	148	118	11.0-160	
Vinyl chloride	25.0	25.4	101	67.0-131	
Xylenes, Total	75.0	76.7	102	79.0-123	
(S) Toluene-d8			95.9	80.0-120	
(S) 4-Bromofluorobenzene			96.9	77.0-126	
(S) 1,2-Dichloroethane-d4			111	70.0-130	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3434111-2 07/24/19 18:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Ethylbenzene	U		0.158	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	105			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3434111-1 07/24/19 09:59

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
cis-1,2-Dichloroethene	25.0	25.1	100	73.0-120	
Ethylbenzene	25.0	25.1	101	79.0-123	
Naphthalene	25.0	25.1	100	54.0-135	
n-Propylbenzene	25.0	25.8	103	77.0-124	
1,2,4-Trimethylbenzene	25.0	25.5	102	76.0-121	
1,2,3-Trimethylbenzene	25.0	25.3	101	77.0-120	
Vinyl chloride	25.0	26.9	108	67.0-131	
Xylenes, Total	75.0	75.9	101	79.0-123	
(S) Toluene-d8			106	80.0-120	
(S) 4-Bromofluorobenzene			105	77.0-126	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

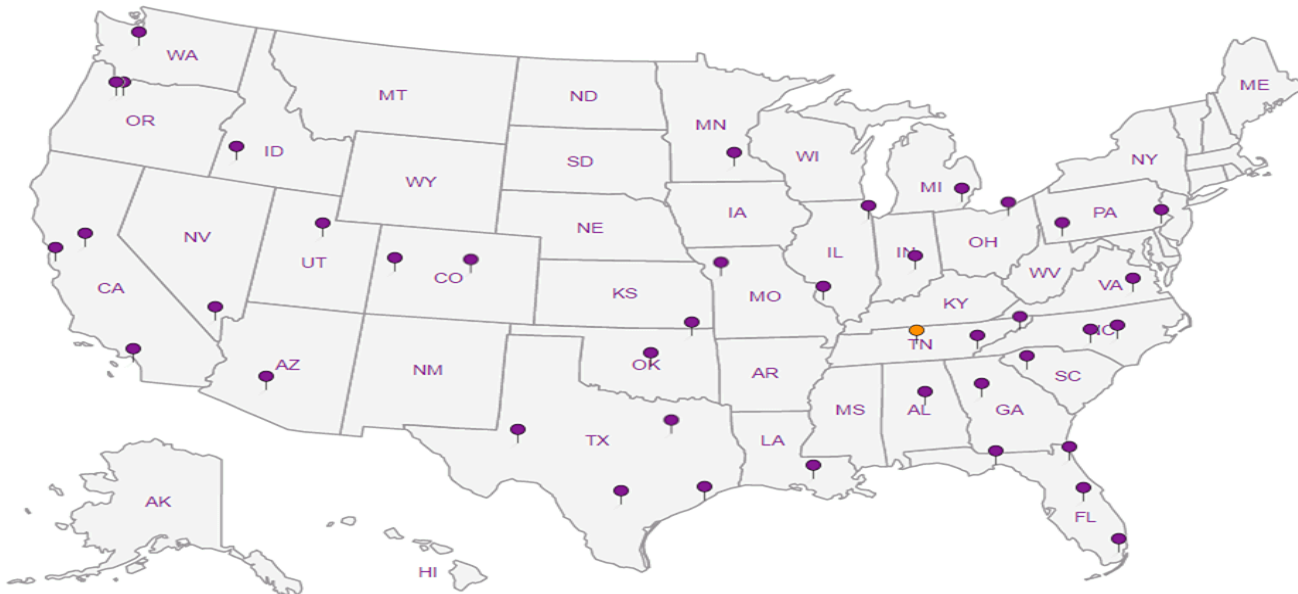
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com; *KSPRINGSTEAD@PES ENV.COM*

*KVIK@PES ENV.COM*

Project Description: *American Lines*

City/State Collected: *Seattle, WA*

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
*American Lines*

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
*Ben Hecht*

Site/Facility ID #  
*1413.001.05.601*

P.O. #

Collected by (signature):  
*Ben Hecht*

Rush? (Lab MUST Be Notified)

Same Day \_\_\_\_\_ Five Day \_\_\_\_\_  
Next Day \_\_\_\_\_ 5 Day (Rad Only) \_\_\_\_\_  
Two Day \_\_\_\_\_ 10 Day (Rad Only) \_\_\_\_\_  
Three Day \_\_\_\_\_

Quote #

Date Results Needed

*STAT*

No.  
of  
Cnts

Immediately Packed on Ice N \_\_\_\_\_ Y \_\_\_\_\_

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L# *L1120206*  
**C222**

Acctnum: PESENVSWA

Template: T152679

Prelogin: P718645

TSR: 110 - Brian Ford

PB: *7-5-19 ES*

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts	*NO3,Cl, SO4* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs 8260LLC 40mlAmb-HCl	Remarks	Sample # (lab only)
MW 126-071819	Grab	GW	90	7-18-19	0715	3									-d
MW-8-071819		GW	13.5		0935	6									-02
MW-912-071819		GW	75		0800	12	X	X	X	X	X	X	X		-03
MW-914-071819		GW	19		0820	6									-04
SCS-2-071819		GW	20		1035	6									-05
MW-147-071819			75		1045	12	X	X	X	X	X	X	X		-06
MW102-071819			120		1215	12	X	X	X	X	X	X	X		-07
MW-161-071819			125		1415	12	X	X	X	X	X	X	X		-08
MW128-071819			65		1415	9/2	X	X	X	X	X	X	X		-09
TRIP-071819					1630	1	AB								-10

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other \_\_\_\_\_

Remarks: \*Nitrate has a 48 hour holding time.

*Tier 2 QA/QC required 7/18/19*

*B.I. PES for work e-mail only copy OK*

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
\_ UPS \_ FedEx \_ Courier \_\_\_\_\_

Tracking # *Fedex 10825988 5594*

Sample Receipt Checklist	
COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
If Applicable	
VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

**RAD SCREEN: <0.5 mR/hr**

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes/No	Temp: °C	Bottles Received:	If preservation required by Login: Date/Time
<i>Ben Hecht</i>	7/18/19	1630		<input checked="" type="checkbox"/> HCL / MeOH <input type="checkbox"/> TBR			
					5.14.15.25 81		
					7/19/19 8:45		

Condition:  
NCF /  OK





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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.96	UJ JJO	1.05	25.0	1	07/20/2019 15:50	WG1314770
Acrylonitrile	U		0.873	5.00	1	07/20/2019 15:50	WG1314770
Benzene	U		0.0896	0.500	1	07/20/2019 15:50	WG1314770
Bromobenzene	U		0.133	0.500	1	07/20/2019 15:50	WG1314770
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 15:50	WG1314770
Bromochloromethane	U		0.145	0.500	1	07/20/2019 15:50	WG1314770
Bromoform	U		0.186	0.500	1	07/20/2019 15:50	WG1314770
Bromomethane	U		0.157	2.50	1	07/20/2019 15:50	WG1314770
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 15:50	WG1314770
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 15:50	WG1314770
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 15:50	WG1314770
Carbon disulfide	U		0.101	0.500	1	07/20/2019 15:50	WG1314770
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 15:50	WG1314770
Chlorobenzene	U		0.140	0.500	1	07/20/2019 15:50	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 15:50	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 15:50	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 15:50	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 15:50	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 15:50	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 15:50	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 15:50	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 15:50	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 15:50	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 15:50	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 15:50	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 15:50	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 15:50	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 15:50	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 15:50	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 15:50	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 15:50	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 15:50	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 15:50	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 15:50	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 15:50	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 15:50	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 15:50	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 15:50	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 15:50	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 15:50	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 15:50	WG1314770
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 15:50	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 15:50	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 15:50	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 15:50	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 15:50	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 15:50	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 15:50	WG1314770
Naphthalene	U	UJ JO	0.174	2.50	1	07/20/2019 15:50	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 15:50	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 15:50	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 15:50	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 15:50	WG1314770

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 15:50	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 15:50	<a href="#">WG1314770</a>
(S) Toluene-d8	101			80.0-120		07/20/2019 15:50	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	93.0			77.0-126		07/20/2019 15:50	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	98.3			70.0-130		07/20/2019 15:50	<a href="#">WG1314770</a>

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

JC 8/6/19



Collected date/time: 07/18/19 09:35

L1120206

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/23/2019 16:47	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		07/23/2019 16:47	<a href="#">WG1316070</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.98	UJ JJO	1.05	25.0	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 16:10	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Dibromomethane	U		0.117	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Ethylbenzene	U		0.158	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
2-Hexanone	U		0.757	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
n-Hexane	U		0.305	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Naphthalene	U	<b>UJ</b> <u>JO</u>	0.174	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Styrene	U		0.117	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 16:10	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 16:10	<a href="#">WG1314770</a>
(S) Toluene-d8	99.9			80.0-120		07/20/2019 16:10	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	93.9			77.0-126		07/20/2019 16:10	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		07/20/2019 16:10	<a href="#">WG1314770</a>

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

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	310000		2710	20000	1	07/23/2019 13:14	<a href="#">WG1315391</a>

Sample Narrative:

L1120206-03 WG1315391: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	18800		51.9	1000	1	07/19/2019 21:56	<a href="#">WG1314262</a>
Nitrate	89.0	J J	22.7	100	1	07/19/2019 21:56	<a href="#">WG1314262</a>
Sulfate	29400		77.4	5000	1	07/19/2019 21:56	<a href="#">WG1314262</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	11700		102	1000	1	07/22/2019 15:59	<a href="#">WG1315213</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2400	J	15.0	100	1	07/21/2019 16:55	<a href="#">WG1314861</a>
Manganese	724		0.250	5.00	1	07/21/2019 16:55	<a href="#">WG1314861</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	170	J+	31.6	100	1	07/23/2019 17:07	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		07/23/2019 17:07	<a href="#">WG1316070</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	5830		0.287	0.678	1	07/24/2019 16:28	<a href="#">WG1316411</a>
Ethane	U		0.296	1.29	1	07/24/2019 16:28	<a href="#">WG1316411</a>
Ethene	202		0.422	1.27	1	07/24/2019 16:28	<a href="#">WG1316411</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.34	J J0	1.05	25.0	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 16:31	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a> JC 8/6/19
Carbon disulfide	U		0.101	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 16:31	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 16:31	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 16:31	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 16:31	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 16:31	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 16:31	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 16:31	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 16:31	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 16:31	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 16:31	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 16:31	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 16:31	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 16:31	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 16:31	WG1314770
1,1-Dichloroethene	1.30		0.188	0.500	1	07/20/2019 16:31	WG1314770
cis-1,2-Dichloroethene	286		1.87	10.0	20	07/24/2019 23:00	WG1316884
trans-1,2-Dichloroethene	2.12		0.152	0.500	1	07/20/2019 16:31	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 16:31	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 16:31	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 16:31	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 16:31	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 16:31	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 16:31	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 16:31	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 16:31	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 16:31	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 16:31	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 16:31	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 16:31	WG1314770
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 16:31	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 16:31	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 16:31	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 16:31	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 16:31	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 16:31	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 16:31	WG1314770
Naphthalene	U	UJ JO	0.174	2.50	1	07/20/2019 16:31	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 16:31	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 16:31	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 16:31	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 16:31	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 16:31	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 16:31	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 16:31	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 16:31	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 16:31	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 16:31	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 16:31	WG1314770
Trichloroethene	4.72		0.153	0.500	1	07/20/2019 16:31	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 16:31	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 16:31	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 16:31	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 16:31	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 16:31	WG1314770

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 16:31	<a href="#">WG1314770</a>
Vinyl chloride	425		2.36	10.0	20	07/24/2019 23:00	<a href="#">WG1316884</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 16:31	<a href="#">WG1314770</a>
(S) Toluene-d8	97.0			80.0-120		07/20/2019 16:31	<a href="#">WG1314770</a>
(S) Toluene-d8	105			80.0-120		07/24/2019 23:00	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	94.8			77.0-126		07/20/2019 16:31	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	99.4			77.0-126		07/24/2019 23:00	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		07/20/2019 16:31	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/24/2019 23:00	<a href="#">WG1316884</a>

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

JC 8/6/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2320		31.6	100	1	07/23/2019 17:28	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		07/23/2019 17:28	<a href="#">WG1316070</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Benzene	15.0		0.0896	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
n-Butylbenzene	3.05		0.143	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
sec-Butylbenzene	2.44		0.134	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 16:51	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Dibromomethane	U		0.117	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/24/2019 20:36	<a href="#">WG1316884</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Di-isopropyl ether	0.854		0.0924	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Ethylbenzene	187		0.158	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
2-Hexanone	U		0.757	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
n-Hexane	12.2		0.305	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Isopropylbenzene	17.5		0.126	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
p-Isopropyltoluene	0.698		0.138	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a> JC 8/6/19
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Naphthalene	104	J JO	0.174	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
n-Propylbenzene	43.2		0.162	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Styrene	U		0.117	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Toluene	3.37		0.412	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	145		0.123	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	82.3		0.0739	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	11.6		0.124	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Vinyl chloride	0.242	J U	0.118	0.500	1	07/20/2019 16:51	<a href="#">WG1314770</a>
Xylenes, Total	131		0.316	1.50	1	07/20/2019 16:51	<a href="#">WG1314770</a>
(S) Toluene-d8	84.4			80.0-120		07/20/2019 16:51	<a href="#">WG1314770</a>
(S) Toluene-d8	103			80.0-120		07/24/2019 20:36	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	87.4			77.0-126		07/20/2019 16:51	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/24/2019 20:36	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/20/2019 16:51	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/24/2019 20:36	<a href="#">WG1316884</a>

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

JC 8/6/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2190		31.6	100	1	07/23/2019 17:48	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	99.8			78.0-120		07/23/2019 17:48	<a href="#">WG1316070</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Benzene	15.5		0.0896	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
n-Butylbenzene	3.10		0.143	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
sec-Butylbenzene	2.39		0.134	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 17:12	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Dibromomethane	U		0.117	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Di-isopropyl ether	0.893		0.0924	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Ethylbenzene	141		1.58	5.00	10	07/24/2019 23:22	<a href="#">WG1316884</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
2-Hexanone	U		0.757	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
n-Hexane	12.6		0.305	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Isopropylbenzene	18.7		0.126	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
p-Isopropyltoluene	0.760		0.138	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Naphthalene	115	J JO	0.174	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a> JC 8/12/19
n-Propylbenzene	46.2		0.162	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Styrene	U		0.117	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Toluene	3.71		0.412	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	157		0.123	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	88.3		0.0739	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	12.8		0.124	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 17:12	<a href="#">WG1314770</a>
Xylenes, Total	149		0.316	1.50	1	07/20/2019 17:12	<a href="#">WG1314770</a>
(S) Toluene-d8	85.1			80.0-120		07/20/2019 17:12	<a href="#">WG1314770</a>
(S) Toluene-d8	106			80.0-120		07/24/2019 23:22	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	87.7			77.0-126		07/20/2019 17:12	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/24/2019 23:22	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	100			70.0-130		07/20/2019 17:12	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/24/2019 23:22	<a href="#">WG1316884</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	307000		2710	20000	1	07/24/2019 16:46	<a href="#">WG1315970</a>

Sample Narrative:

L1120206-06 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	19300		51.9	1000	1	07/19/2019 22:13	<a href="#">WG1314262</a>
Nitrate	U		22.7	100	1	07/19/2019 22:13	<a href="#">WG1314262</a>
Sulfate	30000		77.4	5000	1	07/19/2019 22:13	<a href="#">WG1314262</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	9560		102	1000	1	07/22/2019 16:13	<a href="#">WG1315213</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3800	J	15.0	100	1	07/21/2019 16:58	<a href="#">WG1314861</a>
Manganese	750		0.250	5.00	1	07/21/2019 16:58	<a href="#">WG1314861</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	175	J+	31.6	100	1	07/23/2019 18:09	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		07/23/2019 18:09	<a href="#">WG1316070</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	5450		0.287	0.678	1	07/24/2019 12:36	<a href="#">WG1316410</a>
Ethane	U		0.296	1.29	1	07/24/2019 12:36	<a href="#">WG1316410</a>
Ethene	191		0.422	1.27	1	07/24/2019 12:36	<a href="#">WG1316410</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch	
Acetone	2.11	J	J JO	1.05	25.0	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 17:32	<a href="#">WG1314770</a>	
Benzene	U		0.0896	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>	
Bromobenzene	U		0.133	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>	
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>	
Bromochloromethane	U		0.145	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>	
Bromoform	U		0.186	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>	
Bromomethane	U		0.157	2.50	1	07/20/2019 17:32	<a href="#">WG1314770</a>	
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>	
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>	
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>	
Carbon disulfide	U		0.101	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>	
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 17:32	<a href="#">WG1314770</a>	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 17:32	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 17:32	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 17:32	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 17:32	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 17:32	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 17:32	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 17:32	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 17:32	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 17:32	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 17:32	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 17:32	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 17:32	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 17:32	WG1314770
1,1-Dichloroethene	1.33		0.188	0.500	1	07/20/2019 17:32	WG1314770
cis-1,2-Dichloroethene	219		1.87	10.0	20	07/24/2019 23:44	WG1316884
trans-1,2-Dichloroethene	2.49		0.152	0.500	1	07/20/2019 17:32	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 17:32	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 17:32	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 17:32	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 17:32	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 17:32	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 17:32	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 17:32	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 17:32	WG1314770
Ethylbenzene	U		3.16	10.0	20	07/24/2019 23:44	WG1316884
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 17:32	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 17:32	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 17:32	WG1314770
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 17:32	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 17:32	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 17:32	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 17:32	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 17:32	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 17:32	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 17:32	WG1314770
Naphthalene	5.94	J J	3.48	50.0	20	07/24/2019 23:44	WG1316884
n-Propylbenzene	U		3.24	10.0	20	07/24/2019 23:44	WG1316884
Styrene	U		0.117	0.500	1	07/20/2019 17:32	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 17:32	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 17:32	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 17:32	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 17:32	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 17:32	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 17:32	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 17:32	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 17:32	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 17:32	WG1314770
Trichloroethene	4.79		0.153	0.500	1	07/20/2019 17:32	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 17:32	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 17:32	WG1314770
1,2,4-Trimethylbenzene	U		2.46	10.0	20	07/24/2019 23:44	WG1316884
1,2,3-Trimethylbenzene	U		1.48	10.0	20	07/24/2019 23:44	WG1316884
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 17:32	WG1314770

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 17:32	<a href="#">WG1314770</a>
Vinyl chloride	446		2.36	10.0	20	07/24/2019 23:44	<a href="#">WG1316884</a>
Xylenes, Total	U		6.32	30.0	20	07/24/2019 23:44	<a href="#">WG1316884</a>
(S) Toluene-d8	99.8			80.0-120		07/20/2019 17:32	<a href="#">WG1314770</a>
(S) Toluene-d8	109			80.0-120		07/24/2019 23:44	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	92.1			77.0-126		07/20/2019 17:32	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/24/2019 23:44	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/20/2019 17:32	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/24/2019 23:44	<a href="#">WG1316884</a>

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

Sample Narrative:

L1120206-06 WG1314770, WG1316884: Not all compounds reportable at lower dilution.  
 L1120206-06 WG1314770, WG1316884: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	167000		2710	20000	1	07/24/2019 16:56	<a href="#">WG1315970</a>

Sample Narrative:

L1120206-07 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	5580		51.9	1000	1	07/19/2019 22:31	<a href="#">WG1314262</a>
Nitrate	U		22.7	100	1	07/19/2019 22:31	<a href="#">WG1314262</a>
Sulfate	1830	J J	77.4	5000	1	07/19/2019 22:31	<a href="#">WG1314262</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4760		102	1000	1	07/22/2019 16:25	<a href="#">WG1315213</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	7160		15.0	100	1	07/21/2019 17:01	<a href="#">WG1314861</a>
Manganese	353		0.250	5.00	1	07/21/2019 17:01	<a href="#">WG1314861</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/23/2019 18:29	<a href="#">WG1316070</a>
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		07/23/2019 18:29	<a href="#">WG1316070</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	290		0.287	0.678	1	07/24/2019 12:40	<a href="#">WG1316410</a>
Ethane	U		0.296	1.29	1	07/24/2019 12:40	<a href="#">WG1316410</a>
Ethene	U		0.422	1.27	1	07/24/2019 12:40	<a href="#">WG1316410</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.74	J JJO	1.05	25.0	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 17:53	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 17:53	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	07/20/2019 17:53	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 17:53	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 17:53	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 17:53	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 17:53	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 17:53	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 17:53	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 17:53	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 17:53	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 17:53	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 17:53	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 17:53	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 17:53	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 17:53	WG1314770
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/24/2019 20:58	WG1316884
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 17:53	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 17:53	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 17:53	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 17:53	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 17:53	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 17:53	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 17:53	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 17:53	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 17:53	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 17:53	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 17:53	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 17:53	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 17:53	WG1314770
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 17:53	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 17:53	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 17:53	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 17:53	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 17:53	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 17:53	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 17:53	WG1314770
Naphthalene	2.11	J J	0.174	2.50	1	07/24/2019 20:58	WG1316884
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 17:53	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 17:53	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 17:53	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 17:53	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 17:53	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 17:53	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 17:53	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 17:53	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 17:53	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 17:53	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 17:53	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 17:53	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 17:53	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 17:53	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 17:53	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 17:53	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 17:53	WG1314770

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

JC 8/6/19





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 17:53	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/24/2019 20:58	<a href="#">WG1316884</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 17:53	<a href="#">WG1314770</a>
(S) Toluene-d8	97.8			80.0-120		07/20/2019 17:53	<a href="#">WG1314770</a>
(S) Toluene-d8	110			80.0-120		07/24/2019 20:58	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	97.3			77.0-126		07/20/2019 17:53	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/24/2019 20:58	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		07/20/2019 17:53	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/24/2019 20:58	<a href="#">WG1316884</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	284000		2710	20000	1	07/24/2019 17:04	<a href="#">WG1315970</a>

Sample Narrative:

L1120206-08 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	26500		51.9	1000	1	07/19/2019 23:24	<a href="#">WG1314262</a>
Nitrate	U		22.7	100	1	07/19/2019 23:24	<a href="#">WG1314262</a>
Sulfate	14100		77.4	5000	1	07/19/2019 23:24	<a href="#">WG1314262</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1610	<u>B</u>	102	1000	1	07/22/2019 16:38	<a href="#">WG1315213</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1300		15.0	100	1	07/21/2019 17:21	<a href="#">WG1314861</a>
Manganese	694		0.250	5.00	1	07/21/2019 17:21	<a href="#">WG1314861</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/23/2019 18:50	<a href="#">WG1316070</a>
<sup>(S)</sup> a,a,a-Trifluorotoluene(FID)	106			78.0-120		07/23/2019 18:50	<a href="#">WG1316070</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	139		0.287	0.678	1	07/24/2019 12:58	<a href="#">WG1316410</a>
Ethane	U		0.296	1.29	1	07/24/2019 12:58	<a href="#">WG1316410</a>
Ethene	U		0.422	1.27	1	07/24/2019 12:58	<a href="#">WG1316410</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.22	<u>J</u> <u>J J0</u>	1.05	25.0	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 18:13	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>

JC 8/6/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/20/2019 18:13	WG1314770
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 18:13	WG1314770
Chloroethane	U		0.141	2.50	1	07/20/2019 18:13	WG1314770
Chloroform	U		0.0860	0.500	1	07/20/2019 18:13	WG1314770
Chloromethane	U		0.153	1.25	1	07/20/2019 18:13	WG1314770
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 18:13	WG1314770
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 18:13	WG1314770
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 18:13	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 18:13	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 18:13	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 18:13	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 18:13	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 18:13	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 18:13	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 18:13	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 18:13	WG1314770
1,1-Dichloroethene	0.609		0.188	0.500	1	07/20/2019 18:13	WG1314770
cis-1,2-Dichloroethene	1.58		0.0933	0.500	1	07/20/2019 18:13	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 18:13	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 18:13	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 18:13	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 18:13	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 18:13	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 18:13	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 18:13	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 18:13	WG1314770
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 18:13	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 18:13	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 18:13	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 18:13	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 18:13	WG1314770
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 18:13	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 18:13	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 18:13	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 18:13	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 18:13	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 18:13	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 18:13	WG1314770
Naphthalene	0.353	J U	0.174	2.50	1	07/24/2019 21:46	WG1316884
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 18:13	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 18:13	WG1314770
1,1,1-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 18:13	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 18:13	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 18:13	WG1314770
Tetrachloroethene	0.264	J U	0.199	0.500	1	07/20/2019 18:13	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 18:13	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 18:13	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 18:13	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 18:13	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 18:13	WG1314770
Trichloroethene	1.53		0.153	0.500	1	07/20/2019 18:13	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 18:13	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 18:13	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 18:13	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 18:13	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 18:13	WG1314770

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 18:13	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 18:13	<a href="#">WG1314770</a>
(S) Toluene-d8	99.6			80.0-120		07/20/2019 18:13	<a href="#">WG1314770</a>
(S) Toluene-d8	105			80.0-120		07/24/2019 21:46	<a href="#">WG1316884</a>
(S) 4-Bromofluorobenzene	91.4			77.0-126		07/20/2019 18:13	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/24/2019 21:46	<a href="#">WG1316884</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/20/2019 18:13	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/24/2019 21:46	<a href="#">WG1316884</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	601000		2710	20000	1	07/24/2019 20:29	<a href="#">WG1315970</a>

Sample Narrative:

L1120206-09 WG1315970: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	22300		51.9	1000	1	07/19/2019 23:41	<a href="#">WG1314262</a>
Nitrate	U		22.7	100	1	07/19/2019 23:41	<a href="#">WG1314262</a>
Sulfate	4340	J J	77.4	5000	1	07/19/2019 23:41	<a href="#">WG1314262</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6940		102	1000	1	07/22/2019 17:30	<a href="#">WG1315213</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	12400		15.0	100	1	07/21/2019 17:24	<a href="#">WG1314861</a>
Manganese	409		0.250	5.00	1	07/21/2019 17:24	<a href="#">WG1314861</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	15500		2.87	6.78	10	07/25/2019 11:17	<a href="#">WG1317135</a>
Ethane	16.4		0.296	1.29	1	07/24/2019 13:08	<a href="#">WG1316410</a>
Ethene	68.3		0.422	1.27	1	07/24/2019 13:08	<a href="#">WG1316410</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.24	J JJO	1.05	25.0	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Benzene	12.2		0.0896	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 18:33	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 18:33	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 18:33	<a href="#">WG1314770</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



Collected date/time: 07/18/19 14:15

L1120206

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 18:33	WG1314770
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 18:33	WG1314770
Dibromomethane	U		0.117	0.500	1	07/20/2019 18:33	WG1314770
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 18:33	WG1314770
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 18:33	WG1314770
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 18:33	WG1314770
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 18:33	WG1314770
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 18:33	WG1314770
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 18:33	WG1314770
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 18:33	WG1314770
cis-1,2-Dichloroethene	1.88		0.0933	0.500	1	07/20/2019 18:33	WG1314770
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 18:33	WG1314770
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 18:33	WG1314770
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 18:33	WG1314770
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 18:33	WG1314770
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 18:33	WG1314770
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 18:33	WG1314770
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 18:33	WG1314770
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 18:33	WG1314770
Di-isopropyl ether	0.161	J J	0.0924	0.500	1	07/20/2019 18:33	WG1314770
Ethylbenzene	U		0.158	0.500	1	07/20/2019 18:33	WG1314770
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 18:33	WG1314770
2-Hexanone	U		0.757	5.00	1	07/20/2019 18:33	WG1314770
n-Hexane	U		0.305	5.00	1	07/20/2019 18:33	WG1314770
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 18:33	WG1314770
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 18:33	WG1314770
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 18:33	WG1314770
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 18:33	WG1314770
Methylene Chloride	U		1.07	2.50	1	07/20/2019 18:33	WG1314770
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 18:33	WG1314770
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 18:33	WG1314770
Naphthalene	U	UJ JO	0.174	2.50	1	07/20/2019 18:33	WG1314770
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 18:33	WG1314770
Styrene	U		0.117	0.500	1	07/20/2019 18:33	WG1314770
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 18:33	WG1314770
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 18:33	WG1314770
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 18:33	WG1314770
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 18:33	WG1314770
Toluene	U		0.412	0.500	1	07/20/2019 18:33	WG1314770
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 18:33	WG1314770
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 18:33	WG1314770
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 18:33	WG1314770
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 18:33	WG1314770
Trichloroethene	U		0.153	0.500	1	07/20/2019 18:33	WG1314770
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 18:33	WG1314770
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 18:33	WG1314770
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 18:33	WG1314770
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 18:33	WG1314770
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 18:33	WG1314770
Vinyl acetate	U		0.645	5.00	1	07/20/2019 18:33	WG1314770
Vinyl chloride	108		0.118	0.500	1	07/20/2019 18:33	WG1314770
Xylenes, Total	U		0.316	1.50	1	07/20/2019 18:33	WG1314770
(S) Toluene-d8	99.6			80.0-120		07/20/2019 18:33	WG1314770
(S) 4-Bromofluorobenzene	94.9			77.0-126		07/20/2019 18:33	WG1314770
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/20/2019 18:33	WG1314770

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

JC 8/6/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 14:34	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 14:34	<a href="#">WG1316734</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Acrylonitrile	U		0.873	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Benzene	U		0.0896	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Bromobenzene	U		0.133	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Bromodichloromethane	U		0.0800	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Bromochloromethane	U		0.145	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Bromoform	U		0.186	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Bromomethane	U		0.157	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
n-Butylbenzene	U		0.143	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
sec-Butylbenzene	U		0.134	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
tert-Butylbenzene	U		0.183	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Carbon disulfide	U		0.101	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Carbon tetrachloride	U		0.159	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Chlorobenzene	U		0.140	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Chlorodibromomethane	U		0.128	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Chloroethane	U		0.141	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Chloroform	U		0.0860	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Chloromethane	U		0.153	1.25	1	07/20/2019 12:25	<a href="#">WG1314770</a>
2-Chlorotoluene	U		0.111	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Dibromomethane	U		0.117	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Ethylbenzene	U		0.158	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
2-Hexanone	U		0.757	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
n-Hexane	U		0.305	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Iodomethane	U	UJ JO	0.377	10.0	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Isopropylbenzene	U		0.126	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>

JC 8/6/19



Collected date/time: 07/18/19 16:30

L1120206

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Naphthalene	U	UJ JO	0.174	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
n-Propylbenzene	U		0.162	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Styrene	U		0.117	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Tetrachloroethene	U		0.199	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Toluene	U		0.412	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Trichloroethene	U		0.153	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Vinyl acetate	U		0.645	5.00	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Vinyl chloride	U		0.118	0.500	1	07/20/2019 12:25	<a href="#">WG1314770</a>
Xylenes, Total	U		0.316	1.50	1	07/20/2019 12:25	<a href="#">WG1314770</a>
(S) Toluene-d8	101			80.0-120		07/20/2019 12:25	<a href="#">WG1314770</a>
(S) 4-Bromofluorobenzene	92.9			77.0-126		07/20/2019 12:25	<a href="#">WG1314770</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/20/2019 12:25	<a href="#">WG1314770</a>

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

JC 8/6/19



July 30, 2019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## PES Environmental, Inc.- WA

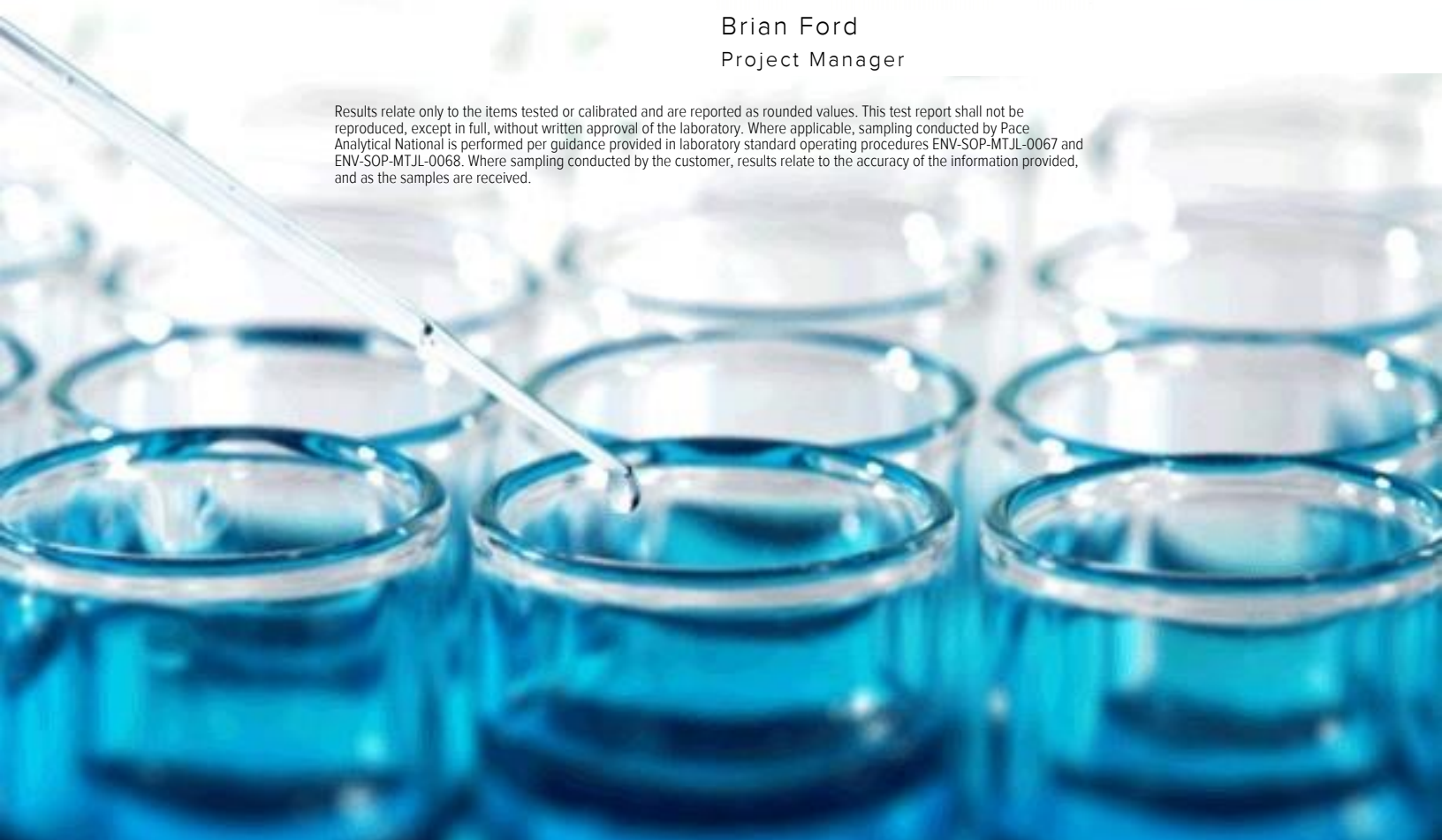
Sample Delivery Group: L1120698  
Samples Received: 07/20/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:










*Brian Ford*

Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





<b>Cp: Cover Page</b>	<b>1</b>	
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	
<b>Cn: Case Narrative</b>	<b>6</b>	
<b>Sr: Sample Results</b>	<b>7</b>	
MW-125-071819 L1120698-01	7	
MW-158A-071919 L1120698-02	9	
MW-121-071919 L1120698-03	12	
MW-138-071919 L1120698-04	14	
MW-146-071919 L1120698-05	17	
MW-119-071919 L1120698-06	20	
MW-143-071919 L1120698-07	22	
MW-106-071919 L1120698-08	25	
MW-913-071919 L1120698-09	28	
EQ-071919 L1120698-10	31	
TRIPBLANK-071919 L1120698-11	34	
<b>Qc: Quality Control Summary</b>	<b>36</b>	
Wet Chemistry by Method 2320 B-2011	36	
Wet Chemistry by Method 9056A	37	
Wet Chemistry by Method 9060A	39	
Metals (ICPMS) by Method 6020B	40	
Volatile Organic Compounds (GC) by Method NWTPHGX	41	
Volatile Organic Compounds (GC) by Method RSK175	42	
Volatile Organic Compounds (GC/MS) by Method 8260C	43	
<b>Gl: Glossary of Terms</b>	<b>49</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>50</b>	
<b>Sc: Sample Chain of Custody</b>	<b>51</b>	

# SAMPLE SUMMARY



## MW-125-071819 L1120698-01 GW

Collected by Ben Hecht  
 Collected date/time 07/18/19 16:55  
 Received date/time 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 15:46	07/24/19 15:46	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1315893	1	07/23/19 14:54	07/23/19 14:54	BMB	Mt. Juliet, TN

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

## MW-158A-071919 L1120698-02 GW

Collected by Ben Hecht  
 Collected date/time 07/19/19 07:55  
 Received date/time 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317440	1	07/25/19 23:04	07/25/19 23:04	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314733	1	07/20/19 19:39	07/20/19 19:39	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315948	1	07/23/19 17:40	07/23/19 17:40	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1315585	1	07/22/19 22:32	07/23/19 10:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 16:10	07/24/19 16:10	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317137	1	07/25/19 16:57	07/25/19 16:57	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1315893	1	07/23/19 15:16	07/23/19 15:16	BMB	Mt. Juliet, TN

## MW-121-071919 L1120698-03 GW

Collected by Ben Hecht  
 Collected date/time 07/19/19 08:35  
 Received date/time 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 16:34	07/24/19 16:34	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1315893	1	07/23/19 15:37	07/23/19 15:37	BMB	Mt. Juliet, TN

## MW-138-071919 L1120698-04 GW

Collected by Ben Hecht  
 Collected date/time 07/19/19 10:05  
 Received date/time 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317440	1	07/25/19 23:11	07/25/19 23:11	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314733	1	07/20/19 19:53	07/20/19 19:53	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315948	1	07/23/19 17:54	07/23/19 17:54	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1315585	1	07/22/19 22:32	07/23/19 10:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 16:58	07/24/19 16:58	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317137	1	07/25/19 16:59	07/25/19 16:59	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1315893	1	07/23/19 15:58	07/23/19 15:58	BMB	Mt. Juliet, TN

## MW-146-071919 L1120698-05 GW

Collected by Ben Hecht  
 Collected date/time 07/19/19 10:25  
 Received date/time 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317440	1	07/25/19 23:18	07/25/19 23:18	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314733	1	07/20/19 20:08	07/20/19 20:08	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315948	1	07/23/19 18:21	07/23/19 18:21	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1315585	1	07/22/19 22:32	07/23/19 10:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 17:22	07/24/19 17:22	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317137	1	07/25/19 17:01	07/25/19 17:01	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1315893	1	07/23/19 16:20	07/23/19 16:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1319424	20	07/29/19 15:09	07/29/19 15:09	ADM	Mt. Juliet, TN

# SAMPLE SUMMARY

## MW-119-071919 L1120698-06 GW

Collected by Ben Hecht  
Collected date/time 07/19/19 10:25  
Received date/time 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1315893	1	07/23/19 16:41	07/23/19 16:41	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1318890	1	07/28/19 17:09	07/28/19 17:09	ADM	Mt. Juliet, TN

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

## MW-143-071919 L1120698-07 GW

Collected by Ben Hecht  
Collected date/time 07/19/19 13:20  
Received date/time 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317440	1	07/25/19 23:25	07/25/19 23:25	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314733	1	07/20/19 20:22	07/20/19 20:22	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315948	1	07/23/19 18:35	07/23/19 18:35	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1315585	1	07/22/19 22:32	07/23/19 10:17	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 17:46	07/24/19 17:46	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317137	1	07/25/19 17:09	07/25/19 17:09	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1315893	1	07/23/19 17:02	07/23/19 17:02	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1318890	1	07/28/19 17:29	07/28/19 17:29	ADM	Mt. Juliet, TN

## MW-106-071919 L1120698-08 GW

Collected by Ben Hecht  
Collected date/time 07/19/19 13:35  
Received date/time 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317440	1	07/25/19 23:32	07/25/19 23:32	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314733	1	07/20/19 20:51	07/20/19 20:51	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315948	1	07/23/19 20:18	07/23/19 20:18	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1315585	1	07/22/19 22:32	07/23/19 10:21	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 18:10	07/24/19 18:10	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317137	1	07/25/19 17:15	07/25/19 17:15	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1315893	1	07/23/19 17:23	07/23/19 17:23	BMB	Mt. Juliet, TN

## MW-913-071919 L1120698-09 GW

Collected by Ben Hecht  
Collected date/time 07/19/19 12:00  
Received date/time 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317440	1	07/25/19 23:48	07/25/19 23:48	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314733	1	07/20/19 21:49	07/20/19 21:49	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315948	1	07/23/19 20:31	07/23/19 20:31	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1315585	1	07/22/19 22:32	07/23/19 10:24	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 18:34	07/24/19 18:34	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317137	1	07/25/19 17:17	07/25/19 17:17	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1315893	1	07/23/19 17:45	07/23/19 17:45	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1318890	20	07/28/19 17:49	07/28/19 17:49	ADM	Mt. Juliet, TN

## EQ-071919 L1120698-10 GW

Collected by Ben Hecht  
Collected date/time 07/19/19 15:00  
Received date/time 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317440	1	07/25/19 21:00	07/25/19 21:00	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1314733	1	07/20/19 22:03	07/20/19 22:03	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315948	1	07/23/19 20:45	07/23/19 20:45	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1315585	1	07/22/19 22:32	07/23/19 10:45	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 18:58	07/24/19 18:58	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317137	1	07/25/19 17:20	07/25/19 17:20	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1315893	1	07/23/19 18:06	07/23/19 18:06	BMB	Mt. Juliet, TN

# SAMPLE SUMMARY



## EQ-071919 L1120698-10 GW

Collected by: Ben Hecht  
 Collected date/time: 07/19/19 15:00  
 Received date/time: 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1318890	1	07/28/19 18:08	07/28/19 18:08	ADM	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

## TRIPBLANK-071919 L1120698-11 GW

Collected by: Ben Hecht  
 Collected date/time: 07/19/19 00:00  
 Received date/time: 07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1316734	1	07/24/19 14:58	07/24/19 14:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1315893	1	07/23/19 14:33	07/23/19 14:33	BMB	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

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



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 15:46	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 15:46	<a href="#">WG1316734</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.89	<u>J</u>	1.05	25.0	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Chlorobenzene	U		0.140	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Chloromethane	U	<u>JO</u>	0.153	1.25	1	07/23/2019 14:54	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
n-Hexane	U	<u>JO</u>	0.305	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Styrene	U	<u>JO</u>	0.117	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Trichloroethene	U		0.153	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
(S) Toluene-d8	102			80.0-120		07/23/2019 14:54	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	97.5			77.0-126		07/23/2019 14:54	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	93.8			70.0-130		07/23/2019 14:54	<a href="#">WG1315893</a>

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





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	330000		2710	20000	1	07/25/2019 23:04	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-02 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	26900		51.9	1000	1	07/20/2019 19:39	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 19:39	<a href="#">WG1314733</a>
Sulfate	19800		77.4	5000	1	07/20/2019 19:39	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4640		102	1000	1	07/23/2019 17:40	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	69200		15.0	100	1	07/23/2019 10:08	<a href="#">WG1315585</a>
Manganese	1370		0.250	5.00	1	07/23/2019 10:08	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 16:10	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 16:10	<a href="#">WG1316734</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	222		0.287	0.678	1	07/25/2019 16:57	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 16:57	<a href="#">WG1317137</a>
Ethene	5.86		0.422	1.27	1	07/25/2019 16:57	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.79	J	1.05	25.0	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Bromomethane	U	JO	0.157	2.50	1	07/23/2019 15:16	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Carbon disulfide	0.437	J	0.101	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/19/19 07:55

L1120698

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Chloromethane	U	<u>JO</u>	0.153	1.25	1	07/23/2019 15:16	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	0.290	<u>J</u>	0.0933	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 15:16	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/23/2019 15:16	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 15:16	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 15:16	<a href="#">WG1315893</a>
n-Hexane	U	<u>JO</u>	0.305	5.00	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Methylene Chloride	U		1.07	2.50	1	07/23/2019 15:16	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 15:16	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Styrene	U	<u>JO</u>	0.117	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Trichloroethene	0.177	<u>J</u>	0.153	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Vinyl chloride	1.24		0.118	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 15:16	<a href="#">WG1315893</a>
<i>(S) Toluene-d8</i>	95.3			80.0-120		07/23/2019 15:16	<a href="#">WG1315893</a>
<i>(S) 4-Bromofluorobenzene</i>	88.9			77.0-126		07/23/2019 15:16	<a href="#">WG1315893</a>
<i>(S) 1,2-Dichloroethane-d4</i>	94.9			70.0-130		07/23/2019 15:16	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 16:34	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 16:34	<a href="#">WG1316734</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.70	<u>J</u>	1.05	25.0	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Chlorobenzene	U		0.140	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Chloromethane	U	<u>JO</u>	0.153	1.25	1	07/23/2019 15:37	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	0.133	<u>J</u>	0.130	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	1.01		0.0933	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
n-Hexane	U	<u>JO</u>	0.305	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Styrene	U	<u>JO</u>	0.117	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Trichloroethene	U		0.153	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Vinyl chloride	5.04		0.118	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
(S) Toluene-d8	105			80.0-120		07/23/2019 15:37	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	109			77.0-126		07/23/2019 15:37	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	99.4			70.0-130		07/23/2019 15:37	<a href="#">WG1315893</a>

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



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	133000		2710	20000	1	07/25/2019 23:11	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-04 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	14900		51.9	1000	1	07/20/2019 19:53	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 19:53	<a href="#">WG1314733</a>
Sulfate	53400		77.4	5000	1	07/20/2019 19:53	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1400	<u>B</u>	102	1000	1	07/23/2019 17:54	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	11700		15.0	100	1	07/23/2019 10:11	<a href="#">WG1315585</a>
Manganese	560		0.250	5.00	1	07/23/2019 10:11	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 16:58	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		07/24/2019 16:58	<a href="#">WG1316734</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	74.2		0.287	0.678	1	07/25/2019 16:59	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 16:59	<a href="#">WG1317137</a>
Ethene	U		0.422	1.27	1	07/25/2019 16:59	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.82	<u>J</u>	1.05	25.0	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	07/23/2019 15:58	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/19/19 10:05

L1120698

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Chloromethane	U	<u>JO</u>	0.153	1.25	1	07/23/2019 15:58	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 15:58	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/23/2019 15:58	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 15:58	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 15:58	<a href="#">WG1315893</a>
n-Hexane	U	<u>JO</u>	0.305	5.00	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Methylene Chloride	U		1.07	2.50	1	07/23/2019 15:58	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 15:58	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Styrene	U	<u>JO</u>	0.117	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Trichloroethene	U		0.153	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	<u>J0</u>	0.645	5.00	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 15:58	<a href="#">WG1315893</a>
<i>(S) Toluene-d8</i>	125	<u>J1</u>		80.0-120		07/23/2019 15:58	<a href="#">WG1315893</a>
<i>(S) 4-Bromofluorobenzene</i>	122			77.0-126		07/23/2019 15:58	<a href="#">WG1315893</a>
<i>(S) 1,2-Dichloroethane-d4</i>	96.9			70.0-130		07/23/2019 15:58	<a href="#">WG1315893</a>

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





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	310000		2710	20000	1	07/25/2019 23:18	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-05 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	17200		51.9	1000	1	07/20/2019 20:08	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 20:08	<a href="#">WG1314733</a>
Sulfate	23900		77.4	5000	1	07/20/2019 20:08	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3780		102	1000	1	07/23/2019 18:21	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2870		15.0	100	1	07/23/2019 10:14	<a href="#">WG1315585</a>
Manganese	800		0.250	5.00	1	07/23/2019 10:14	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	46.3	J	31.6	100	1	07/24/2019 17:22	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		07/24/2019 17:22	<a href="#">WG1316734</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	6490		0.287	0.678	1	07/25/2019 17:01	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 17:01	<a href="#">WG1317137</a>
Ethene	463		0.422	1.27	1	07/25/2019 17:01	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Bromomethane	U	JO	0.157	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/19/19 10:25

L1120698

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Chloromethane	U	<u>JO</u>	0.153	1.25	1	07/23/2019 16:20	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1-Dichloroethene	1.15		0.188	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	257		1.87	10.0	20	07/29/2019 15:09	<a href="#">WG1319424</a>
trans-1,2-Dichloroethene	3.29		0.152	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
n-Hexane	U	<u>JO</u>	0.305	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Methylene Chloride	U		1.07	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Styrene	U	<u>JO</u>	0.117	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Tetrachloroethene	3.08		0.199	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Trichloroethene	14.4		0.153	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Vinyl chloride	580		2.36	10.0	20	07/29/2019 15:09	<a href="#">WG1319424</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
<i>(S) Toluene-d8</i>	109			80.0-120		07/23/2019 16:20	<a href="#">WG1315893</a>
<i>(S) Toluene-d8</i>	105			80.0-120		07/29/2019 15:09	<a href="#">WG1319424</a>
<i>(S) 4-Bromofluorobenzene</i>	88.7			77.0-126		07/23/2019 16:20	<a href="#">WG1315893</a>
<i>(S) 4-Bromofluorobenzene</i>	96.6			77.0-126		07/29/2019 15:09	<a href="#">WG1319424</a>
<i>(S) 1,2-Dichloroethane-d4</i>	93.3			70.0-130		07/23/2019 16:20	<a href="#">WG1315893</a>
<i>(S) 1,2-Dichloroethane-d4</i>	117			70.0-130		07/29/2019 15:09	<a href="#">WG1319424</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	5.73	<u>J</u>	1.05	25.0	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Chlorobenzene	U		0.140	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Chloromethane	U	<u>JO</u>	0.153	1.25	1	07/23/2019 16:41	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	0.340	<u>J</u>	0.0933	0.500	1	07/28/2019 17:09	<a href="#">WG1318890</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
n-Hexane	U	<u>JO</u>	0.305	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Methylene Chloride	U		1.07	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Styrene	U	<u>JO</u>	0.117	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Tetrachloroethene	0.303	J	0.199	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Trichloroethene	U		0.153	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Vinyl acetate	U	JO	0.645	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/28/2019 17:09	<a href="#">WG1318890</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
(S) Toluene-d8	128	J1		80.0-120		07/23/2019 16:41	<a href="#">WG1315893</a>
(S) Toluene-d8	110			80.0-120		07/28/2019 17:09	<a href="#">WG1318890</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/23/2019 16:41	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	98.4			77.0-126		07/28/2019 17:09	<a href="#">WG1318890</a>
(S) 1,2-Dichloroethane-d4	96.2			70.0-130		07/23/2019 16:41	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/28/2019 17:09	<a href="#">WG1318890</a>

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



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	403000		2710	20000	1	07/25/2019 23:25	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-07 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	58200		51.9	1000	1	07/20/2019 20:22	<a href="#">WG1314733</a>
Nitrate	140		22.7	100	1	07/20/2019 20:22	<a href="#">WG1314733</a>
Sulfate	6910		77.4	5000	1	07/20/2019 20:22	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	12700		102	1000	1	07/23/2019 18:35	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2070		15.0	100	1	07/23/2019 10:17	<a href="#">WG1315585</a>
Manganese	398		0.250	5.00	1	07/23/2019 10:17	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 17:46	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 17:46	<a href="#">WG1316734</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4790		0.287	0.678	1	07/25/2019 17:09	<a href="#">WG1317137</a>
Ethane	96.5		0.296	1.29	1	07/25/2019 17:09	<a href="#">WG1317137</a>
Ethene	14.4		0.422	1.27	1	07/25/2019 17:09	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.80	J	1.05	25.0	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Bromomethane	U	JO	0.157	2.50	1	07/23/2019 17:02	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 17:02	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 17:02	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 17:02	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 17:02	WG1315893
Chloromethane	U	JO	0.153	1.25	1	07/23/2019 17:02	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 17:02	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 17:02	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 17:02	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 17:02	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 17:02	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 17:02	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 17:02	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 17:02	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 17:02	WG1315893
cis-1,2-Dichloroethene	0.309	J	0.0933	0.500	1	07/28/2019 17:29	WG1318890
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 17:02	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 17:02	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 17:02	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 17:02	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 17:02	WG1315893
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	07/23/2019 17:02	WG1315893
2,2-Dichloropropane	U	JO	0.0929	0.500	1	07/23/2019 17:02	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 17:02	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 17:02	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 17:02	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 17:02	WG1315893
n-Hexane	U	JO	0.305	5.00	1	07/23/2019 17:02	WG1315893
Iodomethane	U	JO	0.377	10.0	1	07/23/2019 17:02	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 17:02	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 17:02	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 17:02	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 17:02	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 17:02	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 17:02	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 17:02	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 17:02	WG1315893
Styrene	U	JO	0.117	0.500	1	07/23/2019 17:02	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 17:02	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 17:02	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 17:02	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 17:02	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 17:02	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 17:02	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 17:02	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 17:02	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 17:02	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 17:02	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 17:02	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 17:02	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 17:02	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 17:02	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 17:02	WG1315893

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/28/2019 17:29	<a href="#">WG1318890</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 17:02	<a href="#">WG1315893</a>
(S) Toluene-d8	103			80.0-120		07/23/2019 17:02	<a href="#">WG1315893</a>
(S) Toluene-d8	106			80.0-120		07/28/2019 17:29	<a href="#">WG1318890</a>
(S) 4-Bromofluorobenzene	86.0			77.0-126		07/23/2019 17:02	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	99.0			77.0-126		07/28/2019 17:29	<a href="#">WG1318890</a>
(S) 1,2-Dichloroethane-d4	99.7			70.0-130		07/23/2019 17:02	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	116			70.0-130		07/28/2019 17:29	<a href="#">WG1318890</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	266000		2710	20000	1	07/25/2019 23:32	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-08 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	24400		51.9	1000	1	07/20/2019 20:51	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 20:51	<a href="#">WG1314733</a>
Sulfate	15000		77.4	5000	1	07/20/2019 20:51	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2230		102	1000	1	07/23/2019 20:18	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	13700		15.0	100	1	07/23/2019 10:21	<a href="#">WG1315585</a>
Manganese	972		0.250	5.00	1	07/23/2019 10:21	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 18:10	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 18:10	<a href="#">WG1316734</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	39.5		0.287	0.678	1	07/25/2019 17:15	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 17:15	<a href="#">WG1317137</a>
Ethene	U		0.422	1.27	1	07/25/2019 17:15	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.16	J	1.05	25.0	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Bromomethane	U	JO	0.157	2.50	1	07/23/2019 17:23	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/19/19 13:35

L1120698

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Chloromethane	U	<u>JO</u>	0.153	1.25	1	07/23/2019 17:23	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 17:23	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/23/2019 17:23	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 17:23	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 17:23	<a href="#">WG1315893</a>
n-Hexane	U	<u>JO</u>	0.305	5.00	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Methylene Chloride	U		1.07	2.50	1	07/23/2019 17:23	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 17:23	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Styrene	U	<u>JO</u>	0.117	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Trichloroethene	U		0.153	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 17:23	<a href="#">WG1315893</a>
(S) Toluene-d8	120			80.0-120		07/23/2019 17:23	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	95.7			77.0-126		07/23/2019 17:23	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		07/23/2019 17:23	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	307000		2710	20000	1	07/25/2019 23:48	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-09 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	17200		51.9	1000	1	07/20/2019 21:49	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 21:49	<a href="#">WG1314733</a>
Sulfate	24200		77.4	5000	1	07/20/2019 21:49	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3670		102	1000	1	07/23/2019 20:31	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2950		15.0	100	1	07/23/2019 10:24	<a href="#">WG1315585</a>
Manganese	817		0.250	5.00	1	07/23/2019 10:24	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	262		31.6	100	1	07/24/2019 18:34	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		07/24/2019 18:34	<a href="#">WG1316734</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	5480		0.287	0.678	1	07/25/2019 17:17	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 17:17	<a href="#">WG1317137</a>
Ethene	387		0.422	1.27	1	07/25/2019 17:17	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Bromomethane	U	JO	0.157	2.50	1	07/23/2019 17:45	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Chloromethane	U	<u>JO</u>	0.153	1.25	1	07/23/2019 17:45	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,1-Dichloroethene	1.37		0.188	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	371		1.87	10.0	20	07/28/2019 17:49	<a href="#">WG1318890</a>
trans-1,2-Dichloroethene	3.50		0.152	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 17:45	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/23/2019 17:45	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 17:45	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 17:45	<a href="#">WG1315893</a>
n-Hexane	U	<u>JO</u>	0.305	5.00	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Methylene Chloride	U		1.07	2.50	1	07/23/2019 17:45	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 17:45	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Styrene	U	<u>JO</u>	0.117	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Tetrachloroethene	2.80		0.199	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Trichloroethene	15.9		0.153	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Vinyl chloride	842		2.36	10.0	20	07/28/2019 17:49	<a href="#">WG1318890</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 17:45	<a href="#">WG1315893</a>
(S) Toluene-d8	105			80.0-120		07/23/2019 17:45	<a href="#">WG1315893</a>
(S) Toluene-d8	104			80.0-120		07/28/2019 17:49	<a href="#">WG1318890</a>
(S) 4-Bromofluorobenzene	106			77.0-126		07/23/2019 17:45	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	95.8			77.0-126		07/28/2019 17:49	<a href="#">WG1318890</a>
(S) 1,2-Dichloroethane-d4	94.0			70.0-130		07/23/2019 17:45	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		07/28/2019 17:49	<a href="#">WG1318890</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	4460	<u>B</u> <u>J</u>	2710	20000	1	07/25/2019 21:00	<a href="#">WG1317440</a>

## Sample Narrative:

L1120698-10 WG1317440: Endpoint pH 4.5 headspace

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	195	<u>J</u>	51.9	1000	1	07/20/2019 22:03	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 22:03	<a href="#">WG1314733</a>
Sulfate	U		77.4	5000	1	07/20/2019 22:03	<a href="#">WG1314733</a>

## Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	234	<u>B</u> <u>J</u>	102	1000	1	07/23/2019 20:45	<a href="#">WG1315948</a>

## Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	31.4	<u>J</u>	15.0	100	1	07/23/2019 10:45	<a href="#">WG1315585</a>
Manganese	1.38	<u>J</u>	0.250	5.00	1	07/23/2019 10:45	<a href="#">WG1315585</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

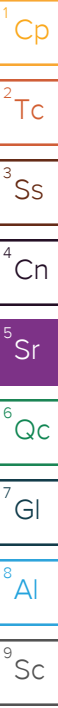
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 18:58	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		07/24/2019 18:58	<a href="#">WG1316734</a>

## Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	218		0.287	0.678	1	07/25/2019 17:20	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 17:20	<a href="#">WG1317137</a>
Ethene	14.1		0.422	1.27	1	07/25/2019 17:20	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.98	<u>J</u>	1.05	25.0	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	07/23/2019 18:06	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>





Collected date/time: 07/19/19 15:00

L1120698

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Chloroform	0.295	<u>J</u>	0.0860	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Chloromethane	U	<u>JO</u>	0.153	1.25	1	07/23/2019 18:06	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/28/2019 18:08	<a href="#">WG1318890</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 18:06	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/23/2019 18:06	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 18:06	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 18:06	<a href="#">WG1315893</a>
n-Hexane	U	<u>JO</u>	0.305	5.00	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Methylene Chloride	U		1.07	2.50	1	07/23/2019 18:06	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 18:06	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Styrene	U	<u>JO</u>	0.117	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Trichloroethene	U		0.153	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 07/19/19 15:00

L1120698

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/28/2019 18:08	<a href="#">WG1318890</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 18:06	<a href="#">WG1315893</a>
(S) Toluene-d8	106			80.0-120		07/23/2019 18:06	<a href="#">WG1315893</a>
(S) Toluene-d8	108			80.0-120		07/28/2019 18:08	<a href="#">WG1318890</a>
(S) 4-Bromofluorobenzene	79.6			77.0-126		07/23/2019 18:06	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	98.4			77.0-126		07/28/2019 18:08	<a href="#">WG1318890</a>
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		07/23/2019 18:06	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/28/2019 18:08	<a href="#">WG1318890</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 14:58	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 14:58	<a href="#">WG1316734</a>

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Chlorobenzene	U		0.140	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Chloromethane	U	<u>JO</u>	0.153	1.25	1	07/23/2019 14:33	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
n-Hexane	U	<u>JO</u>	0.305	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>



Collected date/time: 07/19/19 00:00

L1120698

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Styrene	U	<u>JO</u>	0.117	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Trichloroethene	U		0.153	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
(S) Toluene-d8	104			80.0-120		07/23/2019 14:33	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	106			77.0-126		07/23/2019 14:33	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		07/23/2019 14:33	<a href="#">WG1315893</a>

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



Method Blank (MB)

(MB) R3434474-1 07/25/19 20:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	2810	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1120670-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1120670-07 07/25/19 21:15 • (DUP) R3434474-2 07/25/19 21:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	259000	260000	1	0.533		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1122061-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1122061-01 07/25/19 23:55 • (DUP) R3434474-5 07/26/19 00:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	64900	64100	1	1.18		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3434474-3 07/25/19 22:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	100000	100	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3432718-1 07/20/19 09:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	88.4	J	77.4	5000

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1120682-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1120682-04 07/20/19 16:17 • (DUP) R3432718-3 07/20/19 16:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	40800	40600	1	0.485		15
Nitrate	960	946	1	1.41		15
Sulfate	13400	13300	1	0.271		15

L1120698-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1120698-07 07/20/19 20:22 • (DUP) R3432718-6 07/20/19 20:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	58200	58100	1	0.211		15
Nitrate	140	131	1	6.35		15
Sulfate	6910	6870	1	0.587		15

Laboratory Control Sample (LCS)

(LCS) R3432718-2 07/20/19 09:39

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	39900	99.8	80.0-120	
Nitrate	8000	8400	105	80.0-120	
Sulfate	40000	41100	103	80.0-120	



L1120686-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120686-01 07/20/19 16:46 • (MS) R3432718-4 07/20/19 17:00 • (MSD) R3432718-5 07/20/19 17:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	5360	56500	56200	102	102	1	80.0-120			0.483	15
Nitrate	5000	267	5490	5460	104	104	1	80.0-120			0.502	15
Sulfate	50000	ND	55000	55000	102	102	1	80.0-120			0.0749	15

L1120698-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1120698-08 07/20/19 20:51 • (MS) R3432718-7 07/20/19 21:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	24400	74900	101	1	80.0-120	
Nitrate	5000	U	5200	104	1	80.0-120	
Sulfate	50000	15000	65800	102	1	80.0-120	

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



Method Blank (MB)

(MB) R3433613-1 07/23/19 16:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	190	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1120698-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1120698-04 07/23/19 17:54 • (DUP) R3433613-3 07/23/19 18:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1400	1320	1	5.81		20

L1121124-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1121124-03 07/23/19 21:25 • (DUP) R3433613-6 07/23/19 21:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	7910	7670	1	3.08		20

Laboratory Control Sample (LCS)

(LCS) R3433613-2 07/23/19 17:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	74300	99.1	85.0-115	

L1120698-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120698-07 07/23/19 18:35 • (MS) R3433613-4 07/23/19 18:51 • (MSD) R3433613-5 07/23/19 19:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	12700	63800	63100	102	101	1	80.0-120			1.07	20

L1121210-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1121210-05 07/23/19 23:55 • (MS) R3433613-7 07/24/19 00:12 • (MSD) R3433613-8 07/24/19 00:29

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	14900	66600	64500	103	99.2	1	80.0-120			3.22	20



Method Blank (MB)

(MB) R3433190-1 07/23/19 09:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433190-2 07/23/19 09:05 • (LCSD) R3433190-3 07/23/19 09:08

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	5320	5130	106	103	80.0-120			3.65	20
Manganese	50.0	50.1	50.9	100	102	80.0-120			1.53	20

5 Sr

6 Qc

L1120670-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120670-12 07/23/19 09:11 • (MS) R3433190-5 07/23/19 09:18 • (MSD) R3433190-6 07/23/19 09:21

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	22.3	5130	5120	102	102	1	75.0-125			0.220	20
Manganese	50.0	1.03	50.2	51.2	98.4	100	1	75.0-125			1.88	20

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3433855-3 07/24/19 13:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3433855-2 07/24/19 12:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5440	99.0	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			94.7	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3434376-1 07/25/19 16:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1120670-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1120670-14 07/25/19 16:44 • (DUP) R3434376-2 07/25/19 17:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	0.000	1	0.000		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434376-3 07/25/19 17:23 • (LCSD) R3434376-4 07/25/19 17:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	73.1	74.6	108	110	85.0-115			1.93	20
Ethane	129	117	115	90.5	89.2	85.0-115			1.48	20
Ethene	127	116	113	91.0	89.1	85.0-115			2.04	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3433905-2 07/23/19 10:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3433905-2 07/23/19 10:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	105			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	95.0			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3433905-1 07/23/19 09:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	125	133	107	19.0-160	
Acrylonitrile	125	118	94.1	55.0-149	
Benzene	25.0	22.4	89.8	70.0-123	
Bromobenzene	25.0	22.5	90.1	73.0-121	
Bromodichloromethane	25.0	23.8	95.3	75.0-120	
Bromochloromethane	25.0	27.9	112	76.0-122	
Bromoform	25.0	23.6	94.5	68.0-132	
Bromomethane	25.0	14.7	58.9	10.0-160	
n-Butylbenzene	25.0	21.2	84.7	73.0-125	
sec-Butylbenzene	25.0	21.1	84.5	75.0-125	
tert-Butylbenzene	25.0	20.1	80.4	76.0-124	
Carbon disulfide	25.0	22.1	88.4	61.0-128	
Carbon tetrachloride	25.0	23.2	92.7	68.0-126	
Chlorobenzene	25.0	22.0	88.0	80.0-121	
Chlorodibromomethane	25.0	22.9	91.6	77.0-125	
Chloroethane	25.0	24.4	97.4	47.0-150	
Chloroform	25.0	23.4	93.5	73.0-120	
Chloromethane	25.0	18.1	72.3	41.0-142	
2-Chlorotoluene	25.0	21.9	87.8	76.0-123	
4-Chlorotoluene	25.0	23.7	94.7	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	22.3	89.3	58.0-134	
1,2-Dibromoethane	25.0	22.9	91.5	80.0-122	
Dibromomethane	25.0	25.2	101	80.0-120	
1,2-Dichlorobenzene	25.0	24.4	97.7	79.0-121	
1,3-Dichlorobenzene	25.0	24.6	98.5	79.0-120	
1,4-Dichlorobenzene	25.0	21.3	85.1	79.0-120	
Dichlorodifluoromethane	25.0	29.4	118	51.0-149	
1,1-Dichloroethane	25.0	22.6	90.4	70.0-126	
1,2-Dichloroethane	25.0	23.4	93.5	70.0-128	
1,1-Dichloroethene	25.0	22.0	88.1	71.0-124	
cis-1,2-Dichloroethene	25.0	22.8	91.2	73.0-120	
trans-1,2-Dichloroethene	25.0	24.6	98.5	73.0-120	
1,2-Dichloropropane	25.0	24.7	98.8	77.0-125	
1,1-Dichloropropene	25.0	23.8	95.3	74.0-126	
1,3-Dichloropropane	25.0	22.7	91.0	80.0-120	
cis-1,3-Dichloropropene	25.0	25.2	101	80.0-123	
trans-1,3-Dichloropropene	25.0	23.2	92.9	78.0-124	
trans-1,4-Dichloro-2-butene	25.0	17.5	69.9	33.0-144	
2,2-Dichloropropane	25.0	19.1	76.3	58.0-130	
Di-isopropyl ether	25.0	22.4	89.5	58.0-138	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3433905-1 07/23/19 09:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	25.0	21.5	86.0	79.0-123	
Hexachloro-1,3-butadiene	25.0	21.6	86.3	54.0-138	
2-Hexanone	125	111	88.8	67.0-149	
n-Hexane	25.0	19.2	76.8	57.0-133	
Iodomethane	125	83.3	66.6	33.0-147	
Isopropylbenzene	25.0	21.6	86.5	76.0-127	
p-Isopropyltoluene	25.0	21.5	86.2	76.0-125	
2-Butanone (MEK)	125	114	91.1	44.0-160	
Methylene Chloride	25.0	23.8	95.1	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	113	90.1	68.0-142	
Methyl tert-butyl ether	25.0	24.6	98.4	68.0-125	
Naphthalene	25.0	22.9	91.4	54.0-135	
n-Propylbenzene	25.0	23.3	93.3	77.0-124	
Styrene	25.0	19.8	79.3	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	21.8	87.0	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	21.9	87.7	65.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	23.4	93.6	69.0-132	
Tetrachloroethene	25.0	22.0	87.9	72.0-132	
Toluene	25.0	21.9	87.6	79.0-120	
1,2,3-Trichlorobenzene	25.0	24.6	98.4	50.0-138	
1,2,4-Trichlorobenzene	25.0	24.3	97.3	57.0-137	
1,1,1-Trichloroethane	25.0	23.5	94.2	73.0-124	
1,1,2-Trichloroethane	25.0	20.9	83.6	80.0-120	
Trichloroethene	25.0	24.8	99.1	78.0-124	
Trichlorofluoromethane	25.0	25.1	101	59.0-147	
1,2,3-Trichloropropane	25.0	23.5	94.1	73.0-130	
1,2,4-Trimethylbenzene	25.0	21.1	84.3	76.0-121	
1,2,3-Trimethylbenzene	25.0	21.5	86.0	77.0-120	
1,3,5-Trimethylbenzene	25.0	22.3	89.0	76.0-122	
Vinyl acetate	125	86.4	69.2	11.0-160	
Vinyl chloride	25.0	22.8	91.3	67.0-131	
Xylenes, Total	75.0	63.8	85.1	79.0-123	
(S) Toluene-d8			91.7	80.0-120	
(S) 4-Bromofluorobenzene			98.6	77.0-126	
(S) 1,2-Dichloroethane-d4			99.4	70.0-130	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3435312-4 07/28/19 16:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Vinyl chloride	U		0.118	0.500
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	97.9			77.0-126
(S) 1,2-Dichloroethane-d4	113			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435312-1 07/28/19 14:52 • (LCSD) R3435312-2 07/28/19 15:12

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	25.0	23.5	23.6	94.0	94.5	73.0-120			0.487	20
Vinyl chloride	25.0	28.3	28.9	113	116	67.0-131			2.22	20
(S) Toluene-d8				106	108	80.0-120				
(S) 4-Bromofluorobenzene				98.3	98.5	77.0-126				
(S) 1,2-Dichloroethane-d4				115	114	70.0-130				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3435403-4 07/29/19 13:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Vinyl chloride	U		0.118	0.500
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	96.4			77.0-126
(S) 1,2-Dichloroethane-d4	114			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435403-1 07/29/19 11:58 • (LCSD) R3435403-2 07/29/19 12:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	25.0	22.8	22.3	91.2	89.1	73.0-120			2.37	20
Vinyl chloride	25.0	26.4	26.2	105	105	67.0-131			0.606	20
(S) Toluene-d8				105	104	80.0-120				
(S) 4-Bromofluorobenzene				98.0	98.3	77.0-126				
(S) 1,2-Dichloroethane-d4				115	115	70.0-130				

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

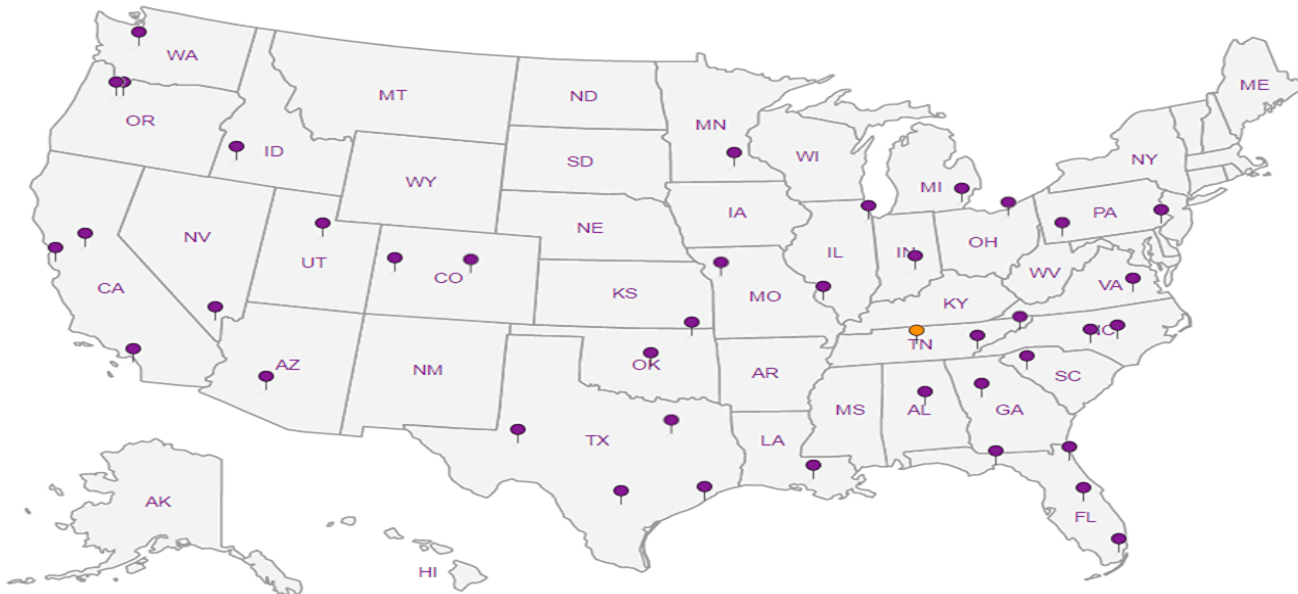
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc. - WA

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Email To: boneal@pesenv.com;  
bhaldean@pesenv.com;

KVIK@PES ENV. COM  
K SPRINGSTEAD@PES ENV. COM

Report to:  
Brian O'Neal/Bill Haldeman

Project Description: *American Linn*

City/State Collected: *Seattle, WA*

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
*1413.001.05.601*

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
*Ben Hecht*

Site/Facility ID #  
*American Linn*

P.O. #

Collected by (signature):  
*Ben Hecht*

Rush? (Lab MUST Be Notified)

Quote #

Immediately Packed on Ice N  Y

Same Day  Five Day   
Next Day  5 Day (Rad Only)   
Two Day  10 Day (Rad Only)   
Three Day

Date Results Needed

*STAT*

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3, Cl, SO4* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGx 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs 8260LLC 40mlAmb-HCl
MW125-071819	Grab	GW	24	7/19/19	1655	6							
MW-158A-071919		GW	95	7/19/19	0755	12	X	X	X	X	X	X	X
MW121-071919		GW	20		0835	6	X	X	X	X	X	X	X
MW-138-071919		GW	110		1005	12	X	X	X	X	X	X	X
MW-146-071919		GW	45		1025	12	X	X	X	X	X	X	X
MW119-071919		GW	30		1025	3	X	X	X	X	X	X	X
MW-143-071919		GW	75		1320	12	X	X	X	X	X	X	X
MW106-071919		GW	135		1335	12	X	X	X	X	X	X	X
MW-913-071919		GW	45		1200	12	X	X	X	X	X	X	X
EQ-071919		GW	-		1500	12	X	X	X	X	X	X	X

Analysis / Container / Preservative

Pres Chk

*L2 L2*

Chain of Custody Page \_\_\_ of \_\_\_



L# *L1120698*  
**1093**  
Acctnum: PESENVSWA  
Template: T152679  
Preglin: P718645  
TSR: 110 - Brian Ford  
PB: 7-5-19 ES  
Shipped Via: **FedEX Ground**

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks: \*Nitrate has a 48 hour holding time.

+ TRIP BLANK, analyze for NWTPHGx and VOC  
Tier QA/QC - Bill PES - Email OK

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier

Tracking # *1082 5988 5675*

Sample Receipt Checklist  
COC Seal Present/Intact:  NP  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VOA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N  
**RAD SCREEN: <0.5 mP/HR**

Relinquished by: (Signature) <i>Ben Hecht</i>	Date: <i>7-19-19</i>	Time: <i>1700</i>	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> MeOH <input type="checkbox"/> TBR	Bottles Received: <i>99</i>	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date: <i>7/20/19</i>	Time: <i>8:45</i>	Hold:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>Bill PES</i>	Date:	Time:	Condition: NCF <input checked="" type="checkbox"/> OK



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 15:46	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 15:46	<a href="#">WG1316734</a>

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.89	J J	1.05	25.0	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Bromomethane	U	UJ JO	0.157	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Chlorobenzene	U		0.140	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Chloromethane	U	UJ JO	0.153	1.25	1	07/23/2019 14:54	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	UJ JO	0.0929	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
n-Hexane	U	UJ JO	0.305	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Iodomethane	U	UJ JO	0.377	10.0	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>

IC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Styrene	U	UJ JO	0.117	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Trichloroethene	U		0.153	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Vinyl acetate	U	UJ JO	0.645	5.00	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/23/2019 14:54	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 14:54	<a href="#">WG1315893</a>
(S) Toluene-d8	102			80.0-120		07/23/2019 14:54	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	97.5			77.0-126		07/23/2019 14:54	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	93.8			70.0-130		07/23/2019 14:54	<a href="#">WG1315893</a>

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

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	330000		2710	20000	1	07/25/2019 23:04	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-02 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	26900		51.9	1000	1	07/20/2019 19:39	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 19:39	<a href="#">WG1314733</a>
Sulfate	19800		77.4	5000	1	07/20/2019 19:39	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4640		102	1000	1	07/23/2019 17:40	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	69200		15.0	100	1	07/23/2019 10:08	<a href="#">WG1315585</a>
Manganese	1370		0.250	5.00	1	07/23/2019 10:08	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 16:10	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 16:10	<a href="#">WG1316734</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	222		0.287	0.678	1	07/25/2019 16:57	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 16:57	<a href="#">WG1317137</a>
Ethene	5.86		0.422	1.27	1	07/25/2019 16:57	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.79	U J	1.05	25.0	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Bromomethane	U	UJ JO	0.157	2.50	1	07/23/2019 15:16	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Carbon disulfide	0.437	J J	0.101	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>

JC 8/6/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	07/23/2019 15:16	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 15:16	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 15:16	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 15:16	WG1315893
Chloromethane	U	UJ JO	0.153	1.25	1	07/23/2019 15:16	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 15:16	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 15:16	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 15:16	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 15:16	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 15:16	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 15:16	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 15:16	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 15:16	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 15:16	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 15:16	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 15:16	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 15:16	WG1315893
cis-1,2-Dichloroethene	0.290	J U	0.0933	0.500	1	07/23/2019 15:16	WG1315893
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 15:16	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 15:16	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 15:16	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 15:16	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 15:16	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 15:16	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/23/2019 15:16	WG1315893
2,2-Dichloropropane	U	UJ JO	0.0929	0.500	1	07/23/2019 15:16	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 15:16	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 15:16	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 15:16	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 15:16	WG1315893
n-Hexane	U	UJ JO	0.305	5.00	1	07/23/2019 15:16	WG1315893
Iodomethane	U	UJ JO	0.377	10.0	1	07/23/2019 15:16	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 15:16	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 15:16	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 15:16	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 15:16	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 15:16	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 15:16	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 15:16	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 15:16	WG1315893
Styrene	U	UJ JO	0.117	0.500	1	07/23/2019 15:16	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 15:16	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 15:16	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 15:16	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 15:16	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 15:16	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 15:16	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 15:16	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 15:16	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 15:16	WG1315893
Trichloroethene	0.177	J U	0.153	0.500	1	07/23/2019 15:16	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 15:16	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 15:16	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 15:16	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 15:16	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 15:16	WG1315893

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ JO	0.645	5.00	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Vinyl chloride	1.24		0.118	0.500	1	07/23/2019 15:16	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 15:16	<a href="#">WG1315893</a>
(S) Toluene-d8	95.3			80.0-120		07/23/2019 15:16	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	88.9			77.0-126		07/23/2019 15:16	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		07/23/2019 15:16	<a href="#">WG1315893</a>

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

JC 8/6/19





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 16:34	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 16:34	<a href="#">WG1316734</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.70	J J	1.05	25.0	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Bromomethane	U	UJ JO	0.157	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Chlorobenzene	U		0.140	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Chloromethane	U	UJ JO	0.153	1.25	1	07/23/2019 15:37	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	0.133	J J	0.130	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	1.01		0.0933	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	UJ JO	0.0929	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a> JC 8/6/19
n-Hexane	U	UJ JO	0.305	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Iodomethane	U	UJ JO	0.377	10.0	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Styrene	U	UJ JO	0.117	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Trichloroethene	U		0.153	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Vinyl acetate	U	UJ JO	0.645	5.00	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Vinyl chloride	5.04		0.118	0.500	1	07/23/2019 15:37	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 15:37	<a href="#">WG1315893</a>
(S) Toluene-d8	105			80.0-120		07/23/2019 15:37	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	109			77.0-126		07/23/2019 15:37	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	99.4			70.0-130		07/23/2019 15:37	<a href="#">WG1315893</a>

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

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	133000		2710	20000	1	07/25/2019 23:11	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-04 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	14900		51.9	1000	1	07/20/2019 19:53	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 19:53	<a href="#">WG1314733</a>
Sulfate	53400		77.4	5000	1	07/20/2019 19:53	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1400	<del>B</del>	102	1000	1	07/23/2019 17:54	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	11700		15.0	100	1	07/23/2019 10:11	<a href="#">WG1315585</a>
Manganese	560		0.250	5.00	1	07/23/2019 10:11	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 16:58	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		07/24/2019 16:58	<a href="#">WG1316734</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	74.2		0.287	0.678	1	07/25/2019 16:59	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 16:59	<a href="#">WG1317137</a>
Ethene	U		0.422	1.27	1	07/25/2019 16:59	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.82	J J	1.05	25.0	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Bromomethane	U	UJ JO	0.157	2.50	1	07/23/2019 15:58	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>

JC 8/6/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	07/23/2019 15:58	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 15:58	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 15:58	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 15:58	WG1315893
Chloromethane	U	UJ JO	0.153	1.25	1	07/23/2019 15:58	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 15:58	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 15:58	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 15:58	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 15:58	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 15:58	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 15:58	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 15:58	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 15:58	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 15:58	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 15:58	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 15:58	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 15:58	WG1315893
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 15:58	WG1315893
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 15:58	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 15:58	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 15:58	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 15:58	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 15:58	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 15:58	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/23/2019 15:58	WG1315893
2,2-Dichloropropane	U	UJ JO	0.0929	0.500	1	07/23/2019 15:58	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 15:58	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 15:58	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 15:58	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 15:58	WG1315893
n-Hexane	U	UJ JO	0.305	5.00	1	07/23/2019 15:58	WG1315893
Iodomethane	U	UJ JO	0.377	10.0	1	07/23/2019 15:58	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 15:58	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 15:58	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 15:58	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 15:58	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 15:58	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 15:58	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 15:58	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 15:58	WG1315893
Styrene	U	UJ JO	0.117	0.500	1	07/23/2019 15:58	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 15:58	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 15:58	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 15:58	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 15:58	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 15:58	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 15:58	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 15:58	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 15:58	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 15:58	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 15:58	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 15:58	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 15:58	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 15:58	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 15:58	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 15:58	WG1315893

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ JO	0.645	5.00	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/23/2019 15:58	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 15:58	<a href="#">WG1315893</a>
(S) Toluene-d8	125	J1		80.0-120		07/23/2019 15:58	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	122			77.0-126		07/23/2019 15:58	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		07/23/2019 15:58	<a href="#">WG1315893</a>

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

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	310000		2710	20000	1	07/25/2019 23:18	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-05 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	17200		51.9	1000	1	07/20/2019 20:08	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 20:08	<a href="#">WG1314733</a>
Sulfate	23900		77.4	5000	1	07/20/2019 20:08	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3780		102	1000	1	07/23/2019 18:21	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2870		15.0	100	1	07/23/2019 10:14	<a href="#">WG1315585</a>
Manganese	800		0.250	5.00	1	07/23/2019 10:14	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	46.3	J J	31.6	100	1	07/24/2019 17:22	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		07/24/2019 17:22	<a href="#">WG1316734</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	6490		0.287	0.678	1	07/25/2019 17:01	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 17:01	<a href="#">WG1317137</a>
Ethene	463		0.422	1.27	1	07/25/2019 17:01	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Bromomethane	U	UJ JO	0.157	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Chloromethane	U	UJ JO	0.153	1.25	1	07/23/2019 16:20	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1-Dichloroethene	1.15		0.188	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	257	J	1.87	10.0	20	07/29/2019 15:09	<a href="#">WG1319424</a>
trans-1,2-Dichloroethene	3.29		0.152	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	UJ JO	0.0929	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
n-Hexane	U	UJ JO	0.305	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Iodomethane	U	UJ JO	0.377	10.0	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Methylene Chloride	U		1.07	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Styrene	U	UJ JO	0.117	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Tetrachloroethene	3.08		0.199	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Trichloroethene	14.4		0.153	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 16:20	<a href="#">WG1315893</a>

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ JO	0.645	5.00	1	07/23/2019 16:20	<a href="#">WG1315893</a>
Vinyl chloride	580	J	2.36	10.0	20	07/29/2019 15:09	<a href="#">WG1319424</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 16:20	<a href="#">WG1315893</a>
(S) Toluene-d8	109			80.0-120		07/23/2019 16:20	<a href="#">WG1315893</a>
(S) Toluene-d8	105			80.0-120		07/29/2019 15:09	<a href="#">WG1319424</a>
(S) 4-Bromofluorobenzene	88.7			77.0-126		07/23/2019 16:20	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	96.6			77.0-126		07/29/2019 15:09	<a href="#">WG1319424</a>
(S) 1,2-Dichloroethane-d4	93.3			70.0-130		07/23/2019 16:20	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	117			70.0-130		07/29/2019 15:09	<a href="#">WG1319424</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	5.73	J J	1.05	25.0	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Bromomethane	U	UJ JO	0.157	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Chlorobenzene	U		0.140	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Chloromethane	U	UJ JO	0.153	1.25	1	07/23/2019 16:41	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	0.340	J J	0.0933	0.500	1	07/28/2019 17:09	<a href="#">WG1318890</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	UJ JO	0.0929	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
n-Hexane	U	UJ JO	0.305	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Iodomethane	U	UJ JO	0.377	10.0	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Methylene Chloride	U		1.07	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Styrene	U	UJ JO	0.117	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Tetrachloroethene	0.303	J J	0.199	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Trichloroethene	U		0.153	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Vinyl acetate	U	UJ JO	0.645	5.00	1	07/23/2019 16:41	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/28/2019 17:09	<a href="#">WG1318890</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 16:41	<a href="#">WG1315893</a>
(S) Toluene-d8	128	J1		80.0-120		07/23/2019 16:41	<a href="#">WG1315893</a>
(S) Toluene-d8	110			80.0-120		07/28/2019 17:09	<a href="#">WG1318890</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/23/2019 16:41	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	98.4			77.0-126		07/28/2019 17:09	<a href="#">WG1318890</a>
(S) 1,2-Dichloroethane-d4	96.2			70.0-130		07/23/2019 16:41	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/28/2019 17:09	<a href="#">WG1318890</a>

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

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	403000		2710	20000	1	07/25/2019 23:25	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-07 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	58200		51.9	1000	1	07/20/2019 20:22	<a href="#">WG1314733</a>
Nitrate	140		22.7	100	1	07/20/2019 20:22	<a href="#">WG1314733</a>
Sulfate	6910		77.4	5000	1	07/20/2019 20:22	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	12700		102	1000	1	07/23/2019 18:35	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2070		15.0	100	1	07/23/2019 10:17	<a href="#">WG1315585</a>
Manganese	398		0.250	5.00	1	07/23/2019 10:17	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 17:46	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 17:46	<a href="#">WG1316734</a>

JC 8/6/19

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	4790		0.287	0.678	1	07/25/2019 17:09	<a href="#">WG1317137</a>
Ethane	96.5		0.296	1.29	1	07/25/2019 17:09	<a href="#">WG1317137</a>
Ethene	14.4		0.422	1.27	1	07/25/2019 17:09	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.80	J	1.05	25.0	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Bromomethane	U	UJ	0.157	2.50	1	07/23/2019 17:02	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 17:02	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	07/23/2019 17:02	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 17:02	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 17:02	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 17:02	WG1315893
Chloromethane	U	UJ JO	0.153	1.25	1	07/23/2019 17:02	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 17:02	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 17:02	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 17:02	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 17:02	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 17:02	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 17:02	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 17:02	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 17:02	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 17:02	WG1315893
cis-1,2-Dichloroethene	0.309	J J	0.0933	0.500	1	07/28/2019 17:29	WG1318890
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 17:02	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 17:02	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 17:02	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 17:02	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 17:02	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 17:02	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/23/2019 17:02	WG1315893
2,2-Dichloropropane	U	UJ JO	0.0929	0.500	1	07/23/2019 17:02	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 17:02	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 17:02	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 17:02	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 17:02	WG1315893
n-Hexane	U	UJ JO	0.305	5.00	1	07/23/2019 17:02	WG1315893
Iodomethane	U	UJ JO	0.377	10.0	1	07/23/2019 17:02	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 17:02	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 17:02	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 17:02	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 17:02	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 17:02	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 17:02	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 17:02	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 17:02	WG1315893
Styrene	U	UJ JO	0.117	0.500	1	07/23/2019 17:02	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 17:02	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 17:02	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 17:02	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 17:02	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 17:02	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 17:02	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 17:02	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 17:02	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 17:02	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 17:02	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 17:02	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 17:02	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 17:02	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 17:02	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 17:02	WG1315893

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ JO	0.645	5.00	1	07/23/2019 17:02	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/28/2019 17:29	<a href="#">WG1318890</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 17:02	<a href="#">WG1315893</a>
(S) Toluene-d8	103			80.0-120		07/23/2019 17:02	<a href="#">WG1315893</a>
(S) Toluene-d8	106			80.0-120		07/28/2019 17:29	<a href="#">WG1318890</a>
(S) 4-Bromofluorobenzene	86.0			77.0-126		07/23/2019 17:02	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	99.0			77.0-126		07/28/2019 17:29	<a href="#">WG1318890</a>
(S) 1,2-Dichloroethane-d4	99.7			70.0-130		07/23/2019 17:02	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	116			70.0-130		07/28/2019 17:29	<a href="#">WG1318890</a>

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

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	266000		2710	20000	1	07/25/2019 23:32	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-08 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	24400		51.9	1000	1	07/20/2019 20:51	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 20:51	<a href="#">WG1314733</a>
Sulfate	15000		77.4	5000	1	07/20/2019 20:51	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2230		102	1000	1	07/23/2019 20:18	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	13700		15.0	100	1	07/23/2019 10:21	<a href="#">WG1315585</a>
Manganese	972		0.250	5.00	1	07/23/2019 10:21	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 18:10	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 18:10	<a href="#">WG1316734</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	39.5		0.287	0.678	1	07/25/2019 17:15	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 17:15	<a href="#">WG1317137</a>
Ethene	U		0.422	1.27	1	07/25/2019 17:15	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.16	J J	1.05	25.0	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a> JC 8/6/19
Bromoform	U		0.186	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Bromomethane	U	UJ JO	0.157	2.50	1	07/23/2019 17:23	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	07/23/2019 17:23	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 17:23	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 17:23	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 17:23	WG1315893
Chloromethane	U	UJ JO	0.153	1.25	1	07/23/2019 17:23	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 17:23	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 17:23	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 17:23	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 17:23	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 17:23	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 17:23	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 17:23	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 17:23	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 17:23	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 17:23	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 17:23	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 17:23	WG1315893
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 17:23	WG1315893
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 17:23	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 17:23	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 17:23	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 17:23	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 17:23	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 17:23	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/23/2019 17:23	WG1315893
2,2-Dichloropropane	U	UJ JO	0.0929	0.500	1	07/23/2019 17:23	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 17:23	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 17:23	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 17:23	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 17:23	WG1315893
n-Hexane	U	UJ JO	0.305	5.00	1	07/23/2019 17:23	WG1315893
Iodomethane	U	UJ JO	0.377	10.0	1	07/23/2019 17:23	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 17:23	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 17:23	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 17:23	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 17:23	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 17:23	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 17:23	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 17:23	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 17:23	WG1315893
Styrene	U	UJ JO	0.117	0.500	1	07/23/2019 17:23	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 17:23	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 17:23	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 17:23	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 17:23	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 17:23	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 17:23	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 17:23	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 17:23	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 17:23	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 17:23	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 17:23	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 17:23	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 17:23	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 17:23	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 17:23	WG1315893

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ JO	0.645	5.00	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/23/2019 17:23	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 17:23	<a href="#">WG1315893</a>
(S) Toluene-d8	120			80.0-120		07/23/2019 17:23	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	95.7			77.0-126		07/23/2019 17:23	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		07/23/2019 17:23	<a href="#">WG1315893</a>

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

JC 8/6/19





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	307000		2710	20000	1	07/25/2019 23:48	<a href="#">WG1317440</a>

Sample Narrative:

L1120698-09 WG1317440: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	17200		51.9	1000	1	07/20/2019 21:49	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 21:49	<a href="#">WG1314733</a>
Sulfate	24200		77.4	5000	1	07/20/2019 21:49	<a href="#">WG1314733</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3670		102	1000	1	07/23/2019 20:31	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2950		15.0	100	1	07/23/2019 10:24	<a href="#">WG1315585</a>
Manganese	817		0.250	5.00	1	07/23/2019 10:24	<a href="#">WG1315585</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	262	J+	31.6	100	1	07/24/2019 18:34	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		07/24/2019 18:34	<a href="#">WG1316734</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	5480		0.287	0.678	1	07/25/2019 17:17	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 17:17	<a href="#">WG1317137</a>
Ethene	387		0.422	1.27	1	07/25/2019 17:17	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Bromomethane	U	UJ JO	0.157	2.50	1	07/23/2019 17:45	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 17:45	<a href="#">WG1315893</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 17:45	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 17:45	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 17:45	WG1315893
Chloroform	U		0.0860	0.500	1	07/23/2019 17:45	WG1315893
Chloromethane	U	UJ JO	0.153	1.25	1	07/23/2019 17:45	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 17:45	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 17:45	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 17:45	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 17:45	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 17:45	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 17:45	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 17:45	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 17:45	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 17:45	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 17:45	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 17:45	WG1315893
1,1-Dichloroethene	1.37		0.188	0.500	1	07/23/2019 17:45	WG1315893
cis-1,2-Dichloroethene	371	J	1.87	10.0	20	07/28/2019 17:49	WG1318890
trans-1,2-Dichloroethene	3.50		0.152	0.500	1	07/23/2019 17:45	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 17:45	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 17:45	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 17:45	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 17:45	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 17:45	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/23/2019 17:45	WG1315893
2,2-Dichloropropane	U	UJ JO	0.0929	0.500	1	07/23/2019 17:45	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 17:45	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 17:45	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 17:45	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 17:45	WG1315893
n-Hexane	U	UJ JO	0.305	5.00	1	07/23/2019 17:45	WG1315893
Iodomethane	U	UJ JO	0.377	10.0	1	07/23/2019 17:45	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 17:45	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 17:45	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 17:45	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 17:45	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 17:45	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 17:45	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 17:45	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 17:45	WG1315893
Styrene	U	UJ JO	0.117	0.500	1	07/23/2019 17:45	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 17:45	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 17:45	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 17:45	WG1315893
Tetrachloroethene	2.80		0.199	0.500	1	07/23/2019 17:45	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 17:45	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 17:45	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 17:45	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 17:45	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 17:45	WG1315893
Trichloroethene	15.9		0.153	0.500	1	07/23/2019 17:45	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 17:45	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 17:45	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 17:45	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 17:45	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 17:45	WG1315893

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ JO	0.645	5.00	1	07/23/2019 17:45	<a href="#">WG1315893</a>
Vinyl chloride	842	J	2.36	10.0	20	07/28/2019 17:49	<a href="#">WG1318890</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 17:45	<a href="#">WG1315893</a>
(S) Toluene-d8	105			80.0-120		07/23/2019 17:45	<a href="#">WG1315893</a>
(S) Toluene-d8	104			80.0-120		07/28/2019 17:49	<a href="#">WG1318890</a>
(S) 4-Bromofluorobenzene	106			77.0-126		07/23/2019 17:45	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	95.8			77.0-126		07/28/2019 17:49	<a href="#">WG1318890</a>
(S) 1,2-Dichloroethane-d4	94.0			70.0-130		07/23/2019 17:45	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		07/28/2019 17:49	<a href="#">WG1318890</a>

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

JC 8/6/19



## Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	4460	<u>B</u> <u>J</u>	2710	20000	1	07/25/2019 21:00	<a href="#">WG1317440</a>

## Sample Narrative:

L1120698-10 WG1317440: Endpoint pH 4.5 headspace

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	195	<u>J</u>	51.9	1000	1	07/20/2019 22:03	<a href="#">WG1314733</a>
Nitrate	U		22.7	100	1	07/20/2019 22:03	<a href="#">WG1314733</a>
Sulfate	U		77.4	5000	1	07/20/2019 22:03	<a href="#">WG1314733</a>

## Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	234	<u>B</u> <u>J</u>	102	1000	1	07/23/2019 20:45	<a href="#">WG1315948</a>

## Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	31.4	<u>J</u>	15.0	100	1	07/23/2019 10:45	<a href="#">WG1315585</a>
Manganese	1.38	<u>J</u>	0.250	5.00	1	07/23/2019 10:45	<a href="#">WG1315585</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 18:58	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		07/24/2019 18:58	<a href="#">WG1316734</a>

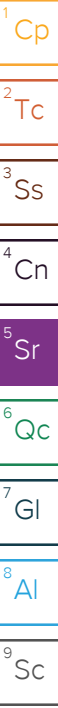
## Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	218		0.287	0.678	1	07/25/2019 17:20	<a href="#">WG1317137</a>
Ethane	U		0.296	1.29	1	07/25/2019 17:20	<a href="#">WG1317137</a>
Ethene	14.1		0.422	1.27	1	07/25/2019 17:20	<a href="#">WG1317137</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.98	<u>J</u>	1.05	25.0	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Bromomethane	U	<u>UJ</u> <u>JO</u>	0.157	2.50	1	07/23/2019 18:06	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 18:06	<a href="#">WG1315893</a>

JC 8/6/19





Collected date/time: 07/19/19 15:00

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/23/2019 18:06	WG1315893
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 18:06	WG1315893
Chloroethane	U		0.141	2.50	1	07/23/2019 18:06	WG1315893
Chloroform	0.295	J	0.0860	0.500	1	07/23/2019 18:06	WG1315893
Chloromethane	U	UJ JO	0.153	1.25	1	07/23/2019 18:06	WG1315893
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 18:06	WG1315893
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 18:06	WG1315893
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 18:06	WG1315893
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 18:06	WG1315893
Dibromomethane	U		0.117	0.500	1	07/23/2019 18:06	WG1315893
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 18:06	WG1315893
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 18:06	WG1315893
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 18:06	WG1315893
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 18:06	WG1315893
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 18:06	WG1315893
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 18:06	WG1315893
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 18:06	WG1315893
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/28/2019 18:08	WG1318890
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 18:06	WG1315893
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 18:06	WG1315893
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 18:06	WG1315893
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 18:06	WG1315893
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 18:06	WG1315893
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 18:06	WG1315893
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	07/23/2019 18:06	WG1315893
2,2-Dichloropropane	U	UJ JO	0.0929	0.500	1	07/23/2019 18:06	WG1315893
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 18:06	WG1315893
Ethylbenzene	U		0.158	0.500	1	07/23/2019 18:06	WG1315893
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 18:06	WG1315893
2-Hexanone	U		0.757	5.00	1	07/23/2019 18:06	WG1315893
n-Hexane	U	UJ JO	0.305	5.00	1	07/23/2019 18:06	WG1315893
Iodomethane	U	UJ JO	0.377	10.0	1	07/23/2019 18:06	WG1315893
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 18:06	WG1315893
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 18:06	WG1315893
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 18:06	WG1315893
Methylene Chloride	U		1.07	2.50	1	07/23/2019 18:06	WG1315893
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 18:06	WG1315893
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 18:06	WG1315893
Naphthalene	U		0.174	2.50	1	07/23/2019 18:06	WG1315893
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 18:06	WG1315893
Styrene	U	UJ JO	0.117	0.500	1	07/23/2019 18:06	WG1315893
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 18:06	WG1315893
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 18:06	WG1315893
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 18:06	WG1315893
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 18:06	WG1315893
Toluene	U		0.412	0.500	1	07/23/2019 18:06	WG1315893
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 18:06	WG1315893
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 18:06	WG1315893
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 18:06	WG1315893
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 18:06	WG1315893
Trichloroethene	U		0.153	0.500	1	07/23/2019 18:06	WG1315893
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 18:06	WG1315893
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 18:06	WG1315893
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 18:06	WG1315893
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 18:06	WG1315893
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 18:06	WG1315893

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ JO	0.645	5.00	1	07/23/2019 18:06	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/28/2019 18:08	<a href="#">WG1318890</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 18:06	<a href="#">WG1315893</a>
(S) Toluene-d8	106			80.0-120		07/23/2019 18:06	<a href="#">WG1315893</a>
(S) Toluene-d8	108			80.0-120		07/28/2019 18:08	<a href="#">WG1318890</a>
(S) 4-Bromofluorobenzene	79.6			77.0-126		07/23/2019 18:06	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	98.4			77.0-126		07/28/2019 18:08	<a href="#">WG1318890</a>
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		07/23/2019 18:06	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/28/2019 18:08	<a href="#">WG1318890</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



Collected date/time: 07/19/19 00:00

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/24/2019 14:58	<a href="#">WG1316734</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/24/2019 14:58	<a href="#">WG1316734</a>

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Acrylonitrile	U		0.873	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Benzene	U		0.0896	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Bromobenzene	U		0.133	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Bromodichloromethane	U		0.0800	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Bromochloromethane	U		0.145	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Bromoform	U		0.186	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
n-Butylbenzene	U		0.143	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
sec-Butylbenzene	U		0.134	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
tert-Butylbenzene	U		0.183	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Carbon disulfide	U		0.101	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Carbon tetrachloride	U		0.159	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Chlorobenzene	U		0.140	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Chlorodibromomethane	U		0.128	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Chloroethane	U		0.141	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Chloroform	U		0.0860	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Chloromethane	U	<u>JO</u>	0.153	1.25	1	07/23/2019 14:33	<a href="#">WG1315893</a>
2-Chlorotoluene	U		0.111	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Dibromomethane	U		0.117	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Ethylbenzene	U		0.158	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
2-Hexanone	U		0.757	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
n-Hexane	U	<u>JO</u>	0.305	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Iodomethane	U	<u>JO</u>	0.377	10.0	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Isopropylbenzene	U		0.126	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Naphthalene	U		0.174	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
n-Propylbenzene	U		0.162	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Styrene	U	<u>JO</u>	0.117	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Tetrachloroethene	U		0.199	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Toluene	U		0.412	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Trichloroethene	U		0.153	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Vinyl chloride	U		0.118	0.500	1	07/23/2019 14:33	<a href="#">WG1315893</a>
Xylenes, Total	U		0.316	1.50	1	07/23/2019 14:33	<a href="#">WG1315893</a>
(S) Toluene-d8	104			80.0-120		07/23/2019 14:33	<a href="#">WG1315893</a>
(S) 4-Bromofluorobenzene	106			77.0-126		07/23/2019 14:33	<a href="#">WG1315893</a>
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		07/23/2019 14:33	<a href="#">WG1315893</a>

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

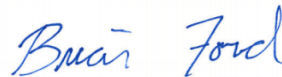
JC 8/6/19



## PES Environmental, Inc.- WA

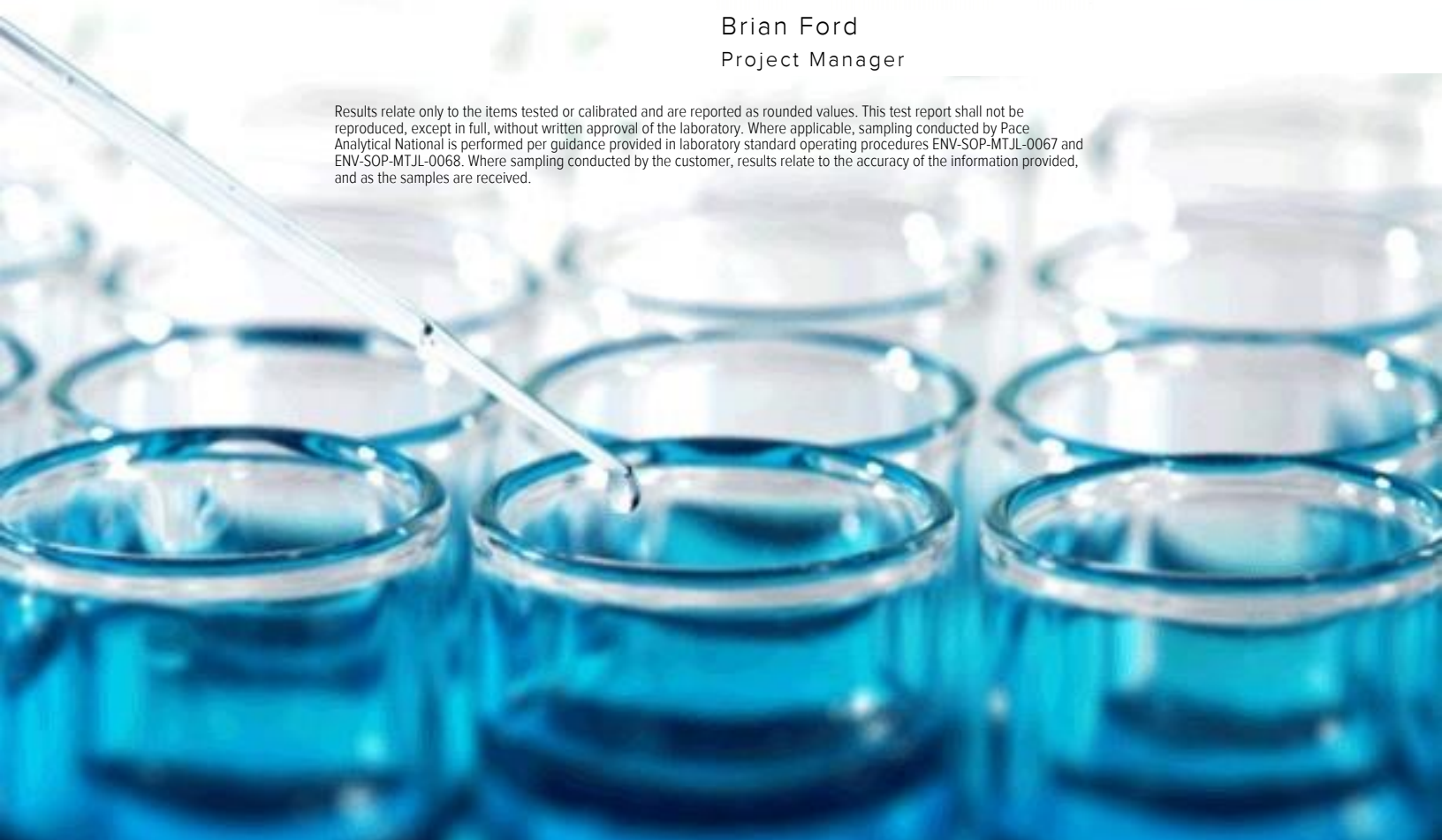
Sample Delivery Group: L1121210  
Samples Received: 07/23/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

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<b>Cp: Cover Page</b>	<b>1</b>
<b>Tc: Table of Contents</b>	<b>2</b>
<b>Ss: Sample Summary</b>	<b>3</b>
<b>Cn: Case Narrative</b>	<b>5</b>
<b>Sr: Sample Results</b>	<b>6</b>
MW-159-072219 L1121210-01	6
MW-104-072219 L1121210-02	8
MW-148-072219 L1121210-03	11
MW-153-072219 L1121210-04	14
MW-157-072219 L1121210-05	17
MW-156-072219 L1121210-06	20
MW-107-072219 L1121210-07	23
TRIP-072219 L1121210-08	26
<b>Qc: Quality Control Summary</b>	<b>28</b>
Wet Chemistry by Method 2320 B-2011	28
Wet Chemistry by Method 9056A	29
Wet Chemistry by Method 9060A	31
Metals (ICPMS) by Method 6020B	33
Volatile Organic Compounds (GC) by Method NWTPHGX	34
Volatile Organic Compounds (GC) by Method RSK175	36
Volatile Organic Compounds (GC/MS) by Method 8260C	38
<b>Gl: Glossary of Terms</b>	<b>52</b>
<b>Al: Accreditations &amp; Locations</b>	<b>53</b>
<b>Sc: Sample Chain of Custody</b>	<b>54</b>

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

# SAMPLE SUMMARY

## MW-159-072219 L1121210-01 GW

Collected by  
Ben Hecht  
Collected date/time  
07/21/19 16:50  
Received date/time  
07/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1317068	1	07/25/19 06:38	07/25/19 06:38	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317007	1	07/25/19 00:48	07/25/19 00:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1320771	1	07/31/19 17:23	07/31/19 17:23	BMB	Mt. Juliet, TN

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

## MW-104-072219 L1121210-02 GW

Collected by  
Ben Hecht  
Collected date/time  
07/22/19 06:20  
Received date/time  
07/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317446	1	07/26/19 16:02	07/26/19 16:02	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1315944	1	07/23/19 16:59	07/23/19 16:59	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315948	2	07/23/19 22:07	07/23/19 22:07	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1316057	1	07/23/19 15:42	07/23/19 21:17	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1317068	1	07/25/19 07:02	07/25/19 07:02	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317907	1	07/26/19 11:22	07/26/19 11:22	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317007	1	07/25/19 01:10	07/25/19 01:10	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1320771	1	07/31/19 17:43	07/31/19 17:43	BMB	Mt. Juliet, TN

## MW-148-072219 L1121210-03 GW

Collected by  
Ben Hecht  
Collected date/time  
07/22/19 10:05  
Received date/time  
07/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317446	1	07/26/19 16:11	07/26/19 16:11	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1315944	1	07/23/19 18:04	07/23/19 18:04	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1315944	5	07/24/19 08:21	07/24/19 08:21	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315948	1	07/23/19 23:22	07/23/19 23:22	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1316057	1	07/23/19 15:42	07/23/19 21:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1317068	1	07/25/19 07:26	07/25/19 07:26	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317907	1	07/26/19 11:27	07/26/19 11:27	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317370	1	07/26/19 21:29	07/26/19 21:29	JHH	Mt. Juliet, TN

## MW-153-072219 L1121210-04 GW

Collected by  
Ben Hecht  
Collected date/time  
07/22/19 11:40  
Received date/time  
07/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317446	1	07/26/19 16:19	07/26/19 16:19	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1315944	1	07/23/19 18:21	07/23/19 18:21	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315948	1	07/23/19 23:38	07/23/19 23:38	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1316057	1	07/23/19 15:42	07/23/19 20:29	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1317068	1	07/25/19 07:50	07/25/19 07:50	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317907	1	07/26/19 11:29	07/26/19 11:29	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317389	1	07/25/19 12:38	07/25/19 12:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1319848	1	07/30/19 14:04	07/30/19 14:04	BMB	Mt. Juliet, TN

## MW-157-072219 L1121210-05 GW

Collected by  
Ben Hecht  
Collected date/time  
07/22/19 12:30  
Received date/time  
07/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317446	1	07/26/19 16:35	07/26/19 16:35	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1315944	1	07/23/19 18:37	07/23/19 18:37	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1315948	1	07/23/19 23:55	07/23/19 23:55	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1316057	1	07/23/19 15:42	07/23/19 21:26	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1316057	5	07/23/19 15:42	07/23/19 21:51	LD	Mt. Juliet, TN

# SAMPLE SUMMARY



## MW-157-072219 L1121210-05 GW

Collected by  
Ben Hecht  
Collected date/time  
07/22/19 12:30  
Received date/time  
07/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1317068	1	07/25/19 08:13	07/25/19 08:13	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317907	1	07/26/19 11:32	07/26/19 11:32	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317389	1	07/25/19 13:26	07/25/19 13:26	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1319848	100	07/30/19 14:26	07/30/19 14:26	BMB	Mt. Juliet, TN

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## MW-156-072219 L1121210-06 GW

Collected by  
Ben Hecht  
Collected date/time  
07/22/19 14:20  
Received date/time  
07/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317446	1	07/26/19 16:42	07/26/19 16:42	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1315944	1	07/23/19 19:27	07/23/19 19:27	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1315944	5	07/24/19 08:57	07/24/19 08:57	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1316685	1	07/25/19 00:00	07/25/19 00:00	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1316057	1	07/23/19 15:42	07/23/19 21:30	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1316057	10	07/23/19 15:42	07/23/19 21:56	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1317068	1	07/25/19 08:37	07/25/19 08:37	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317907	1	07/26/19 11:40	07/26/19 11:40	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317389	1	07/25/19 14:13	07/25/19 14:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1319848	50	07/30/19 18:58	07/30/19 18:58	BMB	Mt. Juliet, TN

## MW-107-072219 L1121210-07 GW

Collected by  
Ben Hecht  
Collected date/time  
07/22/19 14:50  
Received date/time  
07/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317446	1	07/26/19 16:49	07/26/19 16:49	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1315944	1	07/23/19 19:43	07/23/19 19:43	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1316685	1	07/25/19 00:15	07/25/19 00:15	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1316057	1	07/23/19 15:42	07/23/19 21:35	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1317068	1	07/25/19 09:01	07/25/19 09:01	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317907	1	07/26/19 11:44	07/26/19 11:44	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317908	10	07/26/19 14:42	07/26/19 14:42	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317389	1	07/25/19 14:36	07/25/19 14:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1319848	10	07/30/19 15:10	07/30/19 15:10	BMB	Mt. Juliet, TN

## TRIP-072219 L1121210-08 GW

Collected by  
Ben Hecht  
Collected date/time  
07/22/19 15:00  
Received date/time  
07/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1317381	1	07/25/19 13:13	07/25/19 13:13	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317007	1	07/25/19 00:05	07/25/19 00:05	ACG	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

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



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 06:38	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		07/25/2019 06:38	<a href="#">WG1317068</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.13	J	1.05	25.0	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Benzene	U		0.0896	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Bromoform	U		0.186	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Chlorobenzene	U		0.140	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Chloroethane	U		0.141	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Chloroform	U		0.0860	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Chloromethane	U		0.153	1.25	1	07/25/2019 00:48	<a href="#">WG1317007</a>
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Dibromomethane	U		0.117	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
cis-1,2-Dichloroethene	0.918		0.0933	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Ethylbenzene	U		0.158	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
2-Hexanone	U		0.757	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
n-Hexane	U		0.305	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Iodomethane	U		0.377	10.0	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Naphthalene	U		0.174	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Styrene	U		0.117	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Tetrachloroethene	U		0.199	0.500	1	07/31/2019 17:23	<a href="#">WG1320771</a>
Toluene	U		0.412	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Trichloroethene	U		0.153	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Vinyl acetate	U		0.645	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Vinyl chloride	0.691		0.118	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
(S) Toluene-d8	110			80.0-120		07/25/2019 00:48	<a href="#">WG1317007</a>
(S) Toluene-d8	97.7			80.0-120		07/31/2019 17:23	<a href="#">WG1320771</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/25/2019 00:48	<a href="#">WG1317007</a>
(S) 4-Bromofluorobenzene	95.4			77.0-126		07/31/2019 17:23	<a href="#">WG1320771</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/25/2019 00:48	<a href="#">WG1317007</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/31/2019 17:23	<a href="#">WG1320771</a>

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



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	201000		2710	20000	1	07/26/2019 16:02	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-02 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	17000		51.9	1000	1	07/23/2019 16:59	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 16:59	<a href="#">WG1315944</a>
Sulfate	7400		77.4	5000	1	07/23/2019 16:59	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7110		204	2000	2	07/23/2019 22:07	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3000		15.0	100	1	07/23/2019 21:17	<a href="#">WG1316057</a>
Manganese	164		0.250	5.00	1	07/23/2019 21:17	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	50.4	J	31.6	100	1	07/25/2019 07:02	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/25/2019 07:02	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	375		0.287	0.678	1	07/26/2019 11:22	<a href="#">WG1317907</a>
Ethane	2.94		0.296	1.29	1	07/26/2019 11:22	<a href="#">WG1317907</a>
Ethene	28.6		0.422	1.27	1	07/26/2019 11:22	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	4.88	J	1.05	25.0	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Benzene	U		0.0896	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Bromoform	U		0.186	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 01:10	<a href="#">WG1317007</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 01:10	WG1317007
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 01:10	WG1317007
Chloroethane	U		0.141	2.50	1	07/25/2019 01:10	WG1317007
Chloroform	U		0.0860	0.500	1	07/25/2019 01:10	WG1317007
Chloromethane	U		0.153	1.25	1	07/25/2019 01:10	WG1317007
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 01:10	WG1317007
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 01:10	WG1317007
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 01:10	WG1317007
Dibromomethane	U		0.117	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 01:10	WG1317007
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 01:10	WG1317007
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 01:10	WG1317007
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 01:10	WG1317007
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 01:10	WG1317007
1,1-Dichloroethene	5.38		0.188	0.500	1	07/25/2019 01:10	WG1317007
cis-1,2-Dichloroethene	160		0.0933	0.500	1	07/25/2019 01:10	WG1317007
trans-1,2-Dichloroethene	2.10		0.152	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 01:10	WG1317007
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 01:10	WG1317007
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 01:10	WG1317007
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 01:10	WG1317007
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 01:10	WG1317007
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 01:10	WG1317007
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 01:10	WG1317007
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 01:10	WG1317007
Ethylbenzene	U		0.158	0.500	1	07/25/2019 01:10	WG1317007
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 01:10	WG1317007
2-Hexanone	U		0.757	5.00	1	07/25/2019 01:10	WG1317007
n-Hexane	U		0.305	5.00	1	07/25/2019 01:10	WG1317007
Iodomethane	U		0.377	10.0	1	07/25/2019 01:10	WG1317007
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 01:10	WG1317007
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 01:10	WG1317007
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 01:10	WG1317007
Methylene Chloride	U		1.07	2.50	1	07/25/2019 01:10	WG1317007
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 01:10	WG1317007
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 01:10	WG1317007
Naphthalene	U		0.174	2.50	1	07/25/2019 01:10	WG1317007
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 01:10	WG1317007
Styrene	U		0.117	0.500	1	07/25/2019 01:10	WG1317007
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 01:10	WG1317007
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 01:10	WG1317007
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 01:10	WG1317007
Tetrachloroethene	0.282	U	0.199	0.500	1	07/31/2019 17:43	WG1320771
Toluene	U		0.412	0.500	1	07/25/2019 01:10	WG1317007
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 01:10	WG1317007
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 01:10	WG1317007
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 01:10	WG1317007
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 01:10	WG1317007
Trichloroethene	28.3		0.153	0.500	1	07/25/2019 01:10	WG1317007
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 01:10	WG1317007
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 01:10	WG1317007
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 01:10	WG1317007
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 01:10	WG1317007
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 01:10	WG1317007

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Vinyl chloride	57.1		0.118	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 01:10	<a href="#">WG1317007</a>
(S) Toluene-d8	106			80.0-120		07/25/2019 01:10	<a href="#">WG1317007</a>
(S) Toluene-d8	100			80.0-120		07/31/2019 17:43	<a href="#">WG1320771</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/25/2019 01:10	<a href="#">WG1317007</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/31/2019 17:43	<a href="#">WG1320771</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/25/2019 01:10	<a href="#">WG1317007</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/31/2019 17:43	<a href="#">WG1320771</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	160000		2710	20000	1	07/26/2019 16:11	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-03 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	17000		51.9	1000	1	07/23/2019 18:04	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 18:04	<a href="#">WG1315944</a>
Sulfate	173000		387	25000	5	07/24/2019 08:21	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3510		102	1000	1	07/23/2019 23:22	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	5440		15.0	100	1	07/23/2019 21:21	<a href="#">WG1316057</a>
Manganese	534		0.250	5.00	1	07/23/2019 21:21	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 07:26	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		07/25/2019 07:26	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	1940		0.287	0.678	1	07/26/2019 11:27	<a href="#">WG1317907</a>
Ethane	U		0.296	1.29	1	07/26/2019 11:27	<a href="#">WG1317907</a>
Ethene	4.66		0.422	1.27	1	07/26/2019 11:27	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.48	J	1.05	25.0	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Acrylonitrile	U		0.873	5.00	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Benzene	U		0.0896	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Bromobenzene	U		0.133	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Bromodichloromethane	U		0.0800	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Bromochloromethane	U		0.145	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Bromoform	U		0.186	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Bromomethane	U		0.157	2.50	1	07/26/2019 21:29	<a href="#">WG1317370</a>
n-Butylbenzene	U		0.143	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
sec-Butylbenzene	U		0.134	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
tert-Butylbenzene	U		0.183	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Carbon disulfide	U		0.101	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Carbon tetrachloride	U		0.159	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/22/19 10:05

L1121210

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Chlorodibromomethane	U		0.128	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Chloroethane	U		0.141	2.50	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Chloroform	U		0.0860	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Chloromethane	U		0.153	1.25	1	07/26/2019 21:29	<a href="#">WG1317370</a>
2-Chlorotoluene	U		0.111	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Dibromomethane	U		0.117	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/26/2019 21:29	<a href="#">WG1317370</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/26/2019 21:29	<a href="#">WG1317370</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Ethylbenzene	U		0.158	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/26/2019 21:29	<a href="#">WG1317370</a>
2-Hexanone	U		0.757	5.00	1	07/26/2019 21:29	<a href="#">WG1317370</a>
n-Hexane	U		0.305	5.00	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Iodomethane	U		0.377	10.0	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Isopropylbenzene	U		0.126	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Methylene Chloride	U		1.07	2.50	1	07/26/2019 21:29	<a href="#">WG1317370</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Naphthalene	U		0.174	2.50	1	07/26/2019 21:29	<a href="#">WG1317370</a>
n-Propylbenzene	U		0.162	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Styrene	U		0.117	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Tetrachloroethene	0.415	<u>B</u> <u>J</u>	0.199	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Toluene	U		0.412	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Trichloroethene	U		0.153	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Vinyl chloride	0.253	↓	0.118	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Xylenes, Total	U		0.316	1.50	1	07/26/2019 21:29	<a href="#">WG1317370</a>
(S) Toluene-d8	107			80.0-120		07/26/2019 21:29	<a href="#">WG1317370</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/26/2019 21:29	<a href="#">WG1317370</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/26/2019 21:29	<a href="#">WG1317370</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	160000		2710	20000	1	07/26/2019 16:19	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-04 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	8310		51.9	1000	1	07/23/2019 18:21	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 18:21	<a href="#">WG1315944</a>
Sulfate	6780		77.4	5000	1	07/23/2019 18:21	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1840	<u>B</u>	102	1000	1	07/23/2019 23:38	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1670		15.0	100	1	07/23/2019 20:29	<a href="#">WG1316057</a>
Manganese	325		0.250	5.00	1	07/23/2019 20:29	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 07:50	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/25/2019 07:50	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	27.0		0.287	0.678	1	07/26/2019 11:29	<a href="#">WG1317907</a>
Ethane	U		0.296	1.29	1	07/26/2019 11:29	<a href="#">WG1317907</a>
Ethene	U		0.422	1.27	1	07/26/2019 11:29	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	1.98	<u>J</u>	1.05	25.0	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Benzene	0.177	<u>J</u>	0.0896	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 12:38	<a href="#">WG1317389</a>
n-Butylbenzene	0.162	<u>J</u>	0.143	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
sec-Butylbenzene	0.159	<u>J</u>	0.134	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Carbon disulfide	0.250	<u>J</u>	0.101	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/22/19 11:40

L1121210

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 12:38	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 12:38	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 12:38	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 12:38	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 12:38	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 12:38	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 12:38	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 12:38	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 12:38	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 12:38	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 12:38	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 12:38	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 12:38	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 12:38	WG1317389
cis-1,2-Dichloroethene	0.384	U	0.0933	0.500	1	07/25/2019 12:38	WG1317389
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 12:38	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 12:38	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 12:38	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 12:38	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 12:38	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 12:38	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 12:38	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 12:38	WG1317389
Ethylbenzene	0.227	U	0.158	0.500	1	07/25/2019 12:38	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 12:38	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 12:38	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 12:38	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 12:38	WG1317389
Isopropylbenzene	0.134	U	0.126	0.500	1	07/25/2019 12:38	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 12:38	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 12:38	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 12:38	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 12:38	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 12:38	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 12:38	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 12:38	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 12:38	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 12:38	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 12:38	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 12:38	WG1317389
Tetrachloroethene	U		0.199	0.500	1	07/30/2019 14:04	WG1319848
Toluene	0.716		0.412	0.500	1	07/25/2019 12:38	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 12:38	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 12:38	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 12:38	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 12:38	WG1317389
Trichloroethene	0.190	U	0.153	0.500	1	07/25/2019 12:38	WG1317389
Trichlorofluoromethane	U	U	0.130	2.50	1	07/25/2019 12:38	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 12:38	WG1317389
1,2,4-Trimethylbenzene	0.225	U	0.123	0.500	1	07/25/2019 12:38	WG1317389
1,2,3-Trimethylbenzene	0.139	U	0.0739	0.500	1	07/25/2019 12:38	WG1317389
1,3,5-Trimethylbenzene	0.141	U	0.124	0.500	1	07/25/2019 12:38	WG1317389

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Vinyl chloride	0.235	↓	0.118	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Xylenes, Total	0.819	↓	0.316	1.50	1	07/25/2019 12:38	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/25/2019 12:38	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/30/2019 14:04	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/25/2019 12:38	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/30/2019 14:04	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/25/2019 12:38	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/30/2019 14:04	<a href="#">WG1319848</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	464000		2710	20000	1	07/26/2019 16:35	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-05 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	43700		51.9	1000	1	07/23/2019 18:37	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 18:37	<a href="#">WG1315944</a>
Sulfate	46700		77.4	5000	1	07/23/2019 18:37	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	14900		102	1000	1	07/23/2019 23:55	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	11400		15.0	100	1	07/23/2019 21:26	<a href="#">WG1316057</a>
Manganese	1730		1.25	25.0	5	07/23/2019 21:51	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	3880		31.6	100	1	07/25/2019 08:13	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/25/2019 08:13	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	5090		0.287	0.678	1	07/26/2019 11:32	<a href="#">WG1317907</a>
Ethane	45.8		0.296	1.29	1	07/26/2019 11:32	<a href="#">WG1317907</a>
Ethene	56.2		0.422	1.27	1	07/26/2019 11:32	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.65	J	1.05	25.0	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Benzene	0.327	J	0.0896	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 13:26	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/22/19 12:30

L1121210

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Chloroethane	U		0.141	2.50	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Chloroform	U		0.0860	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Chloromethane	U		0.153	1.25	1	07/25/2019 13:26	<a href="#">WG1317389</a>
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Dibromomethane	U		0.117	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,1-Dichloroethene	17.5		0.188	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
cis-1,2-Dichloroethene	4530		9.33	50.0	100	07/30/2019 14:26	<a href="#">WG1319848</a>
trans-1,2-Dichloroethene	18.4		0.152	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 13:26	<a href="#">WG1317389</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 13:26	<a href="#">WG1317389</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Ethylbenzene	U		0.158	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 13:26	<a href="#">WG1317389</a>
2-Hexanone	U		0.757	5.00	1	07/25/2019 13:26	<a href="#">WG1317389</a>
n-Hexane	U		0.305	5.00	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Iodomethane	U		0.377	10.0	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Methylene Chloride	U		1.07	2.50	1	07/25/2019 13:26	<a href="#">WG1317389</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Naphthalene	U		0.174	2.50	1	07/25/2019 13:26	<a href="#">WG1317389</a>
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Styrene	U		0.117	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Tetrachloroethene	U		19.9	50.0	100	07/30/2019 14:26	<a href="#">WG1319848</a>
Toluene	U		0.412	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Trichloroethene	27.6		0.153	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Vinyl chloride	666		11.8	50.0	100	07/30/2019 14:26	<a href="#">WG1319848</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 13:26	<a href="#">WG1317389</a>
<i>(S) Toluene-d8</i>	108			80.0-120		07/25/2019 13:26	<a href="#">WG1317389</a>
<i>(S) Toluene-d8</i>	105			80.0-120		07/30/2019 14:26	<a href="#">WG1319848</a>
<i>(S) 4-Bromofluorobenzene</i>	104			77.0-126		07/25/2019 13:26	<a href="#">WG1317389</a>
<i>(S) 4-Bromofluorobenzene</i>	99.3			77.0-126		07/30/2019 14:26	<a href="#">WG1319848</a>
<i>(S) 1,2-Dichloroethane-d4</i>	104			70.0-130		07/25/2019 13:26	<a href="#">WG1317389</a>
<i>(S) 1,2-Dichloroethane-d4</i>	106			70.0-130		07/30/2019 14:26	<a href="#">WG1319848</a>

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

Sample Narrative:

L1121210-05 WG1317389, WG1319848: Not all compounds reportable at lower dilution.  
 L1121210-05 WG1317389, WG1319848: Cannot be reanalyzed at lower dilution due to high levels of target analytes.



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	606000		2710	20000	1	07/26/2019 16:42	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-06 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	45500		51.9	1000	1	07/23/2019 19:27	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 19:27	<a href="#">WG1315944</a>
Sulfate	181000		387	25000	5	07/24/2019 08:57	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	42000		102	1000	1	07/25/2019 00:00	<a href="#">WG1316685</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	19900		15.0	100	1	07/23/2019 21:30	<a href="#">WG1316057</a>
Manganese	8680		2.50	50.0	10	07/23/2019 21:56	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3100		31.6	100	1	07/25/2019 08:37	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		07/25/2019 08:37	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	2340		0.287	0.678	1	07/26/2019 11:40	<a href="#">WG1317907</a>
Ethane	50.0		0.296	1.29	1	07/26/2019 11:40	<a href="#">WG1317907</a>
Ethene	U		0.422	1.27	1	07/26/2019 11:40	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	4.94	J	1.05	25.0	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Benzene	0.492	J	0.0896	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 14:13	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 14:13	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 14:13	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 14:13	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 14:13	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 14:13	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 14:13	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 14:13	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 14:13	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 14:13	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 14:13	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 14:13	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 14:13	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 14:13	WG1317389
1,1-Dichloroethene	13.2		0.188	0.500	1	07/25/2019 14:13	WG1317389
cis-1,2-Dichloroethene	2310		4.66	25.0	50	07/30/2019 18:58	WG1319848
trans-1,2-Dichloroethene	14.5		0.152	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 14:13	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 14:13	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 14:13	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 14:13	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 14:13	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 14:13	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 14:13	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 14:13	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 14:13	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 14:13	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 14:13	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 14:13	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 14:13	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 14:13	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 14:13	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 14:13	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 14:13	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 14:13	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 14:13	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 14:13	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 14:13	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 14:13	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 14:13	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 14:13	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 14:13	WG1317389
Tetrachloroethene	232		9.95	25.0	50	07/30/2019 18:58	WG1319848
Toluene	U		0.412	0.500	1	07/25/2019 14:13	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 14:13	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 14:13	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 14:13	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 14:13	WG1317389
Trichloroethene	1270		7.65	25.0	50	07/30/2019 18:58	WG1319848
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/25/2019 14:13	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 14:13	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 14:13	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 14:13	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 14:13	WG1317389

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Vinyl chloride	82.0		0.118	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 14:13	<a href="#">WG1317389</a>
(S) Toluene-d8	108			80.0-120		07/25/2019 14:13	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/30/2019 18:58	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/25/2019 14:13	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/30/2019 18:58	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/25/2019 14:13	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/30/2019 18:58	<a href="#">WG1319848</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	527000		2710	20000	1	07/26/2019 16:49	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-07 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	40300		51.9	1000	1	07/23/2019 19:43	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 19:43	<a href="#">WG1315944</a>
Sulfate	30300		77.4	5000	1	07/23/2019 19:43	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	18900		102	1000	1	07/25/2019 00:15	<a href="#">WG1316685</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	3080		15.0	100	1	07/23/2019 21:35	<a href="#">WG1316057</a>
Manganese	1040		0.250	5.00	1	07/23/2019 21:35	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	210		31.6	100	1	07/25/2019 09:01	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/25/2019 09:01	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	16400		2.87	6.78	10	07/26/2019 14:42	<a href="#">WG1317908</a>
Ethane	133		0.296	1.29	1	07/26/2019 11:44	<a href="#">WG1317907</a>
Ethene	81.5		0.422	1.27	1	07/26/2019 11:44	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.28	J	1.05	25.0	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Benzene	0.188	J	0.0896	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 14:36	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 14:36	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 14:36	WG1317389
Chloroethane	3.61		0.141	2.50	1	07/25/2019 14:36	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 14:36	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 14:36	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 14:36	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 14:36	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 14:36	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 14:36	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 14:36	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 14:36	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 14:36	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 14:36	WG1317389
1,1-Dichloroethene	0.825		0.188	0.500	1	07/25/2019 14:36	WG1317389
cis-1,2-Dichloroethene	290		0.933	5.00	10	07/30/2019 15:10	WG1319848
trans-1,2-Dichloroethene	7.08		0.152	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 14:36	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 14:36	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 14:36	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 14:36	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 14:36	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 14:36	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 14:36	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 14:36	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 14:36	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 14:36	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 14:36	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 14:36	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 14:36	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 14:36	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 14:36	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 14:36	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 14:36	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 14:36	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 14:36	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 14:36	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 14:36	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 14:36	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 14:36	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 14:36	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 14:36	WG1317389
Tetrachloroethene	U		1.99	5.00	10	07/30/2019 15:10	WG1319848
Toluene	0.758		0.412	0.500	1	07/25/2019 14:36	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 14:36	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 14:36	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 14:36	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 14:36	WG1317389
Trichloroethene	2.62	U	1.53	5.00	10	07/30/2019 15:10	WG1319848
Trichlorofluoromethane	U	U	0.130	2.50	1	07/25/2019 14:36	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 14:36	WG1317389
1,2,4-Trimethylbenzene	0.144	U	0.123	0.500	1	07/25/2019 14:36	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 14:36	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 14:36	WG1317389

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Vinyl chloride	307		1.18	5.00	10	07/30/2019 15:10	<a href="#">WG1319848</a>
Xylenes, Total	0.609	<u>J</u>	0.316	1.50	1	07/25/2019 14:36	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/25/2019 14:36	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/30/2019 15:10	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/25/2019 14:36	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/30/2019 15:10	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/25/2019 14:36	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/30/2019 15:10	<a href="#">WG1319848</a>

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

Sample Narrative:

L1121210-07 WG1317389, WG1319848: Not all compounds reportable at lower dilution.  
 L1121210-07 WG1317389, WG1319848: Cannot be reanalyzed at lower dilution due to high levels of target analytes.



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 13:13	<a href="#">WG1317381</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/25/2019 13:13	<a href="#">WG1317381</a>

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Benzene	U		0.0896	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Bromoform	U		0.186	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Chlorobenzene	U		0.140	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Chloroethane	U		0.141	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Chloroform	U		0.0860	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Chloromethane	U		0.153	1.25	1	07/25/2019 00:05	<a href="#">WG1317007</a>
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Dibromomethane	U		0.117	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Ethylbenzene	U		0.158	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
2-Hexanone	U		0.757	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
n-Hexane	U		0.305	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Iodomethane	U		0.377	10.0	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Naphthalene	U		0.174	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Styrene	U		0.117	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Tetrachloroethene	1.07	<u>B</u>	0.199	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Toluene	U		0.412	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Trichloroethene	U		0.153	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Vinyl acetate	U		0.645	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Vinyl chloride	U		0.118	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
(S) Toluene-d8	106			80.0-120		07/25/2019 00:05	<a href="#">WG1317007</a>
(S) 4-Bromofluorobenzene	98.4			77.0-126		07/25/2019 00:05	<a href="#">WG1317007</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/25/2019 00:05	<a href="#">WG1317007</a>

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

Sample Narrative:

L1121210-08 WG1317007: PCE detection likely from instrument contamination/carryover, no sample remaining for re-analysis.



Method Blank (MB)

(MB) R3434841-1 07/26/19 14:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	2860	J	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1121183-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1121183-01 07/26/19 15:41 • (DUP) R3434841-2 07/26/19 15:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	144000	149000	1	2.92		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1121537-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1121537-01 07/26/19 18:09 • (DUP) R3434841-4 07/26/19 18:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	533000	534000	1	0.236		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3434841-3 07/26/19 16:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	101000	101	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3433627-1 07/23/19 08:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	277	↓	51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L1121210-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1121210-02 07/23/19 16:59 • (DUP) R3433627-3 07/23/19 17:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	17000	16400	1	3.40		15
Nitrate	U	0.000	1	0.000		15
Sulfate	7400	7120	1	3.85		15

L1121210-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1121210-07 07/23/19 19:43 • (DUP) R3433627-6 07/23/19 19:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	40300	39900	1	0.931		15
Nitrate	U	0.000	1	0.000		15
Sulfate	30300	30400	1	0.390		15

Laboratory Control Sample (LCS)

(LCS) R3433627-2 07/23/19 08:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	39400	98.5	80.0-120	
Nitrate	8000	8060	101	80.0-120	
Sulfate	40000	39000	97.5	80.0-120	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



L1121210-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1121210-02 07/23/19 16:59 • (MS) R3433627-4 07/23/19 17:32 • (MSD) R3433627-5 07/23/19 17:48

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	17000	67900	68000	102	102	1	80.0-120			0.0881	15
Nitrate	5000	U	5010	5020	100	100	1	80.0-120			0.0279	15
Sulfate	50000	7400	58900	59000	103	103	1	80.0-120			0.142	15

L1121210-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1121210-07 07/23/19 19:43 • (MS) R3433627-7 07/23/19 20:16

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	40300	89100	97.6	1	80.0-120	
Nitrate	5000	U	4530	90.6	1	80.0-120	
Sulfate	50000	30300	79700	98.9	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3433613-1 07/23/19 16:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	190	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1120698-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1120698-04 07/23/19 17:54 • (DUP) R3433613-3 07/23/19 18:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1400	1320	1	5.81		20

L1121124-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1121124-03 07/23/19 21:25 • (DUP) R3433613-6 07/23/19 21:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	7910	7670	1	3.08		20

Laboratory Control Sample (LCS)

(LCS) R3433613-2 07/23/19 17:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	74300	99.1	85.0-115	

L1120698-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120698-07 07/23/19 18:35 • (MS) R3433613-4 07/23/19 18:51 • (MSD) R3433613-5 07/23/19 19:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	12700	63800	63100	102	101	1	80.0-120			1.07	20

L1121210-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1121210-05 07/23/19 23:55 • (MS) R3433613-7 07/24/19 00:12 • (MSD) R3433613-8 07/24/19 00:29

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	14900	66600	64500	103	99.2	1	80.0-120			3.22	20



Method Blank (MB)

(MB) R3434105-1 07/24/19 22:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	363	↓	102	1000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1121236-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1121236-02 07/25/19 02:27 • (DUP) R3434105-5 07/25/19 02:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1030000	1010000	20	2.06		20

L1121548-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1121548-05 07/25/19 07:23 • (DUP) R3434105-8 07/25/19 07:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	884	758	1	15.3	↓	20

Laboratory Control Sample (LCS)

(LCS) R3434105-2 07/24/19 22:59

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	74500	99.3	85.0-115	

L1121210-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1121210-07 07/25/19 00:15 • (MS) R3434105-3 07/25/19 00:35 • (MSD) R3434105-4 07/25/19 00:55

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	18900	68500	68900	99.2	99.9	1	80.0-120			0.480	20

L1121236-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1121236-06 07/25/19 03:35 • (MS) R3434105-6 07/25/19 03:54 • (MSD) R3434105-7 07/25/19 04:11

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1820	51500	52500	99.3	101	1	80.0-120			1.87	20





Method Blank (MB)

(MB) R3433496-1 07/23/19 20:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433496-2 07/23/19 20:20 • (LCSD) R3433496-3 07/23/19 20:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	5190	5390	104	108	80.0-120			3.70	20
Manganese	50.0	51.4	51.2	103	102	80.0-120			0.379	20

<sup>5</sup> Sr

<sup>6</sup> Qc

L1121210-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1121210-04 07/23/19 20:29 • (MS) R3433496-5 07/23/19 20:39 • (MSD) R3433496-6 07/23/19 20:43

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	1670	6670	7270	100	112	1	75.0-125			8.55	20
Manganese	50.0	325	365	375	81.2	100	1	75.0-125			2.58	20

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3434118-3 07/24/19 23:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3434118-2 07/24/19 22:15

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5030	91.4	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			93.2	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3435238-3 07/25/19 11:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3435238-2 07/25/19 10:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	4980	90.5	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			90.7	78.0-120	

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3434651-1 07/26/19 10:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1121638-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1121638-01 07/26/19 11:03 • (DUP) R3434651-2 07/26/19 11:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1121358-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1121358-06 07/26/19 12:40 • (DUP) R3434651-3 07/26/19 13:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434651-4 07/26/19 13:04 • (LCSD) R3434651-5 07/26/19 13:07

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	72.5	72.0	107	106	85.0-115			0.736	20
Ethane	129	118	121	91.7	93.7	85.0-115			2.15	20
Ethene	127	118	120	92.8	94.3	85.0-115			1.55	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3434735-1 07/26/19 13:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Methane	U		0.287	0.678

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

L1121816-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1121816-21 07/26/19 13:30 • (DUP) R3434735-2 07/26/19 14:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	U	0.000	1	0.000		20

<sup>5</sup> Sr

<sup>6</sup> Qc

L1121975-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1121975-08 07/26/19 14:27 • (DUP) R3434735-3 07/26/19 14:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	410	423	1	3.14		20

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434735-4 07/26/19 14:50 • (LCSD) R3434735-5 07/26/19 14:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Methane	67.8	73.6	73.9	108	109	85.0-115			0.402	20



Method Blank (MB)

(MB) R3434112-2 07/24/19 18:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

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



Method Blank (MB)

(MB) R3434112-2 07/24/19 18:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	0.226	U	0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	2.04		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	105			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3434112-1 07/24/19 09:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	125	135	108	19.0-160	
Acrylonitrile	125	140	112	55.0-149	
Benzene	25.0	25.0	99.9	70.0-123	
Bromobenzene	25.0	23.5	94.1	73.0-121	
Bromodichloromethane	25.0	26.7	107	75.0-120	
Bromochloromethane	25.0	26.5	106	76.0-122	
Bromoform	25.0	24.5	97.9	68.0-132	
Bromomethane	25.0	26.2	105	10.0-160	
n-Butylbenzene	25.0	27.5	110	73.0-125	
sec-Butylbenzene	25.0	26.9	108	75.0-125	
tert-Butylbenzene	25.0	26.8	107	76.0-124	
Carbon disulfide	25.0	25.8	103	61.0-128	
Carbon tetrachloride	25.0	29.1	116	68.0-126	
Chlorobenzene	25.0	25.5	102	80.0-121	
Chlorodibromomethane	25.0	27.5	110	77.0-125	
Chloroethane	25.0	25.6	102	47.0-150	
Chloroform	25.0	24.9	99.6	73.0-120	
Chloromethane	25.0	23.7	94.8	41.0-142	
2-Chlorotoluene	25.0	24.7	98.9	76.0-123	
4-Chlorotoluene	25.0	25.0	99.9	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	24.5	97.9	58.0-134	
1,2-Dibromoethane	25.0	27.4	110	80.0-122	
Dibromomethane	25.0	26.8	107	80.0-120	
1,2-Dichlorobenzene	25.0	25.1	100	79.0-121	
1,3-Dichlorobenzene	25.0	25.2	101	79.0-120	
1,4-Dichlorobenzene	25.0	25.0	100	79.0-120	
Dichlorodifluoromethane	25.0	25.7	103	51.0-149	
1,1-Dichloroethane	25.0	25.7	103	70.0-126	
1,2-Dichloroethane	25.0	26.3	105	70.0-128	
1,1-Dichloroethene	25.0	26.4	105	71.0-124	
cis-1,2-Dichloroethene	25.0	25.1	100	73.0-120	
trans-1,2-Dichloroethene	25.0	25.4	102	73.0-120	
1,2-Dichloropropane	25.0	25.9	104	77.0-125	
1,1-Dichloropropene	25.0	26.1	104	74.0-126	
1,3-Dichloropropane	25.0	26.0	104	80.0-120	
cis-1,3-Dichloropropene	25.0	26.7	107	80.0-123	
trans-1,3-Dichloropropene	25.0	26.6	106	78.0-124	
trans-1,4-Dichloro-2-butene	25.0	21.5	86.1	33.0-144	
2,2-Dichloropropane	25.0	27.3	109	58.0-130	
Di-isopropyl ether	25.0	25.9	104	58.0-138	

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





Laboratory Control Sample (LCS)

(LCS) R3434112-1 07/24/19 09:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	25.0	25.1	101	79.0-123	
Hexachloro-1,3-butadiene	25.0	27.6	110	54.0-138	
2-Hexanone	125	135	108	67.0-149	
n-Hexane	25.0	29.1	116	57.0-133	
Iodomethane	125	125	99.9	33.0-147	
Isopropylbenzene	25.0	26.8	107	76.0-127	
p-Isopropyltoluene	25.0	27.3	109	76.0-125	
2-Butanone (MEK)	125	134	107	44.0-160	
Methylene Chloride	25.0	25.5	102	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	127	102	68.0-142	
Methyl tert-butyl ether	25.0	26.5	106	68.0-125	
Naphthalene	25.0	25.1	100	54.0-135	
n-Propylbenzene	25.0	25.8	103	77.0-124	
Styrene	25.0	27.1	108	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	27.4	110	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	26.1	104	65.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	24.4	97.5	69.0-132	
Tetrachloroethene	25.0	29.8	119	72.0-132	
Toluene	25.0	24.8	99.1	79.0-120	
1,2,3-Trichlorobenzene	25.0	25.3	101	50.0-138	
1,2,4-Trichlorobenzene	25.0	26.4	106	57.0-137	
1,1,1-Trichloroethane	25.0	26.9	108	73.0-124	
1,1,2-Trichloroethane	25.0	26.5	106	80.0-120	
Trichloroethene	25.0	24.2	96.8	78.0-124	
Trichlorofluoromethane	25.0	21.6	86.3	59.0-147	
1,2,3-Trichloropropane	25.0	25.8	103	73.0-130	
1,2,4-Trimethylbenzene	25.0	25.5	102	76.0-121	
1,2,3-Trimethylbenzene	25.0	25.3	101	77.0-120	
1,3,5-Trimethylbenzene	25.0	24.5	98.2	76.0-122	
Vinyl acetate	125	147	118	11.0-160	
Vinyl chloride	25.0	26.9	108	67.0-131	
Xylenes, Total	75.0	75.9	101	79.0-123	
(S) Toluene-d8			106	80.0-120	
(S) 4-Bromofluorobenzene			105	77.0-126	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

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



Method Blank (MB)

(MB) R3435237-3 07/26/19 11:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

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



Method Blank (MB)

(MB) R3435237-3 07/26/19 11:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	0.488	U	0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	111			80.0-120
(S) 4-Bromofluorobenzene	107			77.0-126
(S) 1,2-Dichloroethane-d4	106			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435237-1 07/26/19 10:06 • (LCSD) R3435237-2 07/26/19 10:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	133	134	106	107	19.0-160			0.695	27
Acrylonitrile	125	142	141	113	113	55.0-149			0.668	20
Benzene	25.0	24.7	24.7	98.7	98.7	70.0-123			0.0200	20
Bromobenzene	25.0	24.1	24.2	96.5	96.6	73.0-121			0.181	20
Bromodichloromethane	25.0	26.9	26.4	107	106	75.0-120			1.67	20
Bromochloromethane	25.0	26.5	26.3	106	105	76.0-122			0.633	20
Bromoform	25.0	24.6	24.8	98.2	99.4	68.0-132			1.13	20
Bromomethane	25.0	26.1	25.4	104	101	10.0-160			2.79	25
n-Butylbenzene	25.0	27.5	28.4	110	114	73.0-125			3.26	20
sec-Butylbenzene	25.0	27.3	27.5	109	110	75.0-125			0.705	20
tert-Butylbenzene	25.0	26.8	26.9	107	107	76.0-124			0.329	20
Carbon disulfide	25.0	26.1	25.7	104	103	61.0-128			1.73	20
Carbon tetrachloride	25.0	29.8	30.5	119	122	68.0-126			2.16	20
Chlorobenzene	25.0	25.5	25.5	102	102	80.0-121			0.220	20
Chlorodibromomethane	25.0	27.4	26.9	110	107	77.0-125			2.05	20
Chloroethane	25.0	25.4	24.8	101	99.0	47.0-150			2.40	20
Chloroform	25.0	25.2	25.2	101	101	73.0-120			0.101	20
Chloromethane	25.0	24.5	24.0	98.0	96.1	41.0-142			1.98	20
2-Chlorotoluene	25.0	25.1	25.4	100	102	76.0-123			1.43	20
4-Chlorotoluene	25.0	25.8	25.2	103	101	75.0-122			2.14	20
1,2-Dibromo-3-Chloropropane	25.0	23.9	24.4	95.7	97.5	58.0-134			1.93	20
1,2-Dibromoethane	25.0	26.6	26.7	106	107	80.0-122			0.271	20
Dibromomethane	25.0	27.0	26.6	108	106	80.0-120			1.63	20
1,2-Dichlorobenzene	25.0	24.7	25.4	98.9	102	79.0-121			2.57	20
1,3-Dichlorobenzene	25.0	25.3	25.5	101	102	79.0-120			0.997	20
1,4-Dichlorobenzene	25.0	24.7	24.8	98.8	99.2	79.0-120			0.394	20
Dichlorodifluoromethane	25.0	29.6	30.4	118	122	51.0-149			2.81	20
1,1-Dichloroethane	25.0	26.3	26.0	105	104	70.0-126			1.30	20
1,2-Dichloroethane	25.0	25.7	25.6	103	102	70.0-128			0.539	20
1,1-Dichloroethene	25.0	27.3	26.8	109	107	71.0-124			1.49	20
cis-1,2-Dichloroethene	25.0	25.3	25.4	101	102	73.0-120			0.542	20
trans-1,2-Dichloroethene	25.0	26.1	25.6	104	102	73.0-120			1.94	20
1,2-Dichloropropane	25.0	25.3	25.8	101	103	77.0-125			1.98	20
1,1-Dichloropropene	25.0	26.5	26.1	106	104	74.0-126			1.64	20
1,3-Dichloropropane	25.0	25.6	25.7	103	103	80.0-120			0.452	20
cis-1,3-Dichloropropene	25.0	27.6	27.2	110	109	80.0-123			1.51	20
trans-1,3-Dichloropropene	25.0	26.6	26.8	106	107	78.0-124			0.795	20
trans-1,4-Dichloro-2-butene	25.0	23.2	23.8	92.7	95.2	33.0-144			2.61	20
2,2-Dichloropropane	25.0	26.4	27.1	105	109	58.0-130			2.88	20
Di-isopropyl ether	25.0	26.0	25.9	104	103	58.0-138			0.354	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435237-1 07/26/19 10:06 • (LCSD) R3435237-2 07/26/19 10:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	25.0	25.3	24.5	101	98.0	79.0-123			3.06	20
Hexachloro-1,3-butadiene	25.0	25.8	27.1	103	109	54.0-138			5.20	20
2-Hexanone	125	134	136	108	109	67.0-149			1.49	20
n-Hexane	25.0	30.9	28.7	124	115	57.0-133			7.52	20
Iodomethane	125	126	125	101	99.9	33.0-147			1.33	26
Isopropylbenzene	25.0	26.5	26.2	106	105	76.0-127			0.894	20
p-Isopropyltoluene	25.0	27.2	27.9	109	112	76.0-125			2.39	20
2-Butanone (MEK)	125	134	135	107	108	44.0-160			0.891	20
Methylene Chloride	25.0	25.9	25.5	104	102	67.0-120			1.52	20
4-Methyl-2-pentanone (MIBK)	125	127	127	101	102	68.0-142			0.568	20
Methyl tert-butyl ether	25.0	26.1	26.5	104	106	68.0-125			1.63	20
Naphthalene	25.0	24.1	26.1	96.3	105	54.0-135			8.26	20
n-Propylbenzene	25.0	26.2	26.4	105	106	77.0-124			0.683	20
Styrene	25.0	26.9	26.1	107	104	73.0-130			2.80	20
1,1,1,2-Tetrachloroethane	25.0	27.4	26.8	110	107	75.0-125			1.99	20
1,1,2,2-Tetrachloroethane	25.0	27.1	27.0	108	108	65.0-130			0.240	20
1,1,2-Trichlorotrifluoroethane	25.0	25.7	25.1	103	100	69.0-132			2.16	20
Tetrachloroethene	25.0	27.1	26.6	108	106	72.0-132			1.82	20
Toluene	25.0	24.3	24.4	97.3	97.6	79.0-120			0.272	20
1,2,3-Trichlorobenzene	25.0	23.6	25.6	94.5	102	50.0-138			7.91	20
1,2,4-Trichlorobenzene	25.0	25.1	26.5	100	106	57.0-137			5.23	20
1,1,1-Trichloroethane	25.0	27.3	26.8	109	107	73.0-124			1.83	20
1,1,2-Trichloroethane	25.0	26.2	26.1	105	104	80.0-120			0.379	20
Trichloroethene	25.0	25.1	24.7	100	98.7	78.0-124			1.48	20
Trichlorofluoromethane	25.0	21.1	21.4	84.2	85.6	59.0-147			1.64	20
1,2,3-Trichloropropane	25.0	26.2	26.1	105	104	73.0-130			0.483	20
1,2,4-Trimethylbenzene	25.0	25.4	25.8	102	103	76.0-121			1.47	20
1,2,3-Trimethylbenzene	25.0	24.8	25.4	99.1	102	77.0-120			2.65	20
1,3,5-Trimethylbenzene	25.0	24.8	25.1	99.3	101	76.0-122			1.31	20
Vinyl acetate	125	147	146	117	116	11.0-160			0.669	20
Vinyl chloride	25.0	28.4	27.5	113	110	67.0-131			3.22	20
Xylenes, Total	75.0	74.3	74.5	99.1	99.3	79.0-123			0.269	20
(S) Toluene-d8				106	106	80.0-120				
(S) 4-Bromofluorobenzene				105	103	77.0-126				
(S) 1,2-Dichloroethane-d4				106	108	70.0-130				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3435471-2 07/25/19 10:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3435471-2 07/25/19 10:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	104			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3435471-1 07/25/19 09:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	125	135	108	19.0-160	
Acrylonitrile	125	141	113	55.0-149	
Benzene	25.0	24.9	99.6	70.0-123	
Bromobenzene	25.0	24.1	96.2	73.0-121	
Bromodichloromethane	25.0	26.1	105	75.0-120	
Bromochloromethane	25.0	26.5	106	76.0-122	
Bromoform	25.0	24.2	96.8	68.0-132	
Bromomethane	25.0	26.5	106	10.0-160	
n-Butylbenzene	25.0	28.1	112	73.0-125	
sec-Butylbenzene	25.0	27.0	108	75.0-125	
tert-Butylbenzene	25.0	27.1	108	76.0-124	
Carbon disulfide	25.0	25.7	103	61.0-128	
Carbon tetrachloride	25.0	29.5	118	68.0-126	
Chlorobenzene	25.0	25.5	102	80.0-121	
Chlorodibromomethane	25.0	27.3	109	77.0-125	
Chloroethane	25.0	25.9	103	47.0-150	
Chloroform	25.0	24.7	98.9	73.0-120	
Chloromethane	25.0	23.3	93.2	41.0-142	
2-Chlorotoluene	25.0	25.4	101	76.0-123	
4-Chlorotoluene	25.0	25.4	101	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	25.5	102	58.0-134	
1,2-Dibromoethane	25.0	26.5	106	80.0-122	
Dibromomethane	25.0	26.6	107	80.0-120	
1,2-Dichlorobenzene	25.0	25.4	101	79.0-121	
1,3-Dichlorobenzene	25.0	25.4	102	79.0-120	
1,4-Dichlorobenzene	25.0	24.9	99.4	79.0-120	
Dichlorodifluoromethane	25.0	25.3	101	51.0-149	
1,1-Dichloroethane	25.0	26.2	105	70.0-126	
1,2-Dichloroethane	25.0	25.7	103	70.0-128	
1,1-Dichloroethene	25.0	26.2	105	71.0-124	
cis-1,2-Dichloroethene	25.0	25.1	100	73.0-120	
trans-1,2-Dichloroethene	25.0	25.9	103	73.0-120	
1,2-Dichloropropane	25.0	25.7	103	77.0-125	
1,1-Dichloropropene	25.0	26.3	105	74.0-126	
1,3-Dichloropropane	25.0	25.9	104	80.0-120	
cis-1,3-Dichloropropene	25.0	27.0	108	80.0-123	
trans-1,3-Dichloropropene	25.0	26.3	105	78.0-124	
trans-1,4-Dichloro-2-butene	25.0	21.3	85.0	33.0-144	
2,2-Dichloropropane	25.0	27.5	110	58.0-130	
Di-isopropyl ether	25.0	25.8	103	58.0-138	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Laboratory Control Sample (LCS)

(LCS) R3435471-1 07/25/19 09:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	25.0	25.1	100	79.0-123	
Hexachloro-1,3-butadiene	25.0	27.9	112	54.0-138	
2-Hexanone	125	135	108	67.0-149	
n-Hexane	25.0	30.0	120	57.0-133	
Iodomethane	125	125	99.9	33.0-147	
Isopropylbenzene	25.0	26.6	106	76.0-127	
p-Isopropyltoluene	25.0	27.9	112	76.0-125	
2-Butanone (MEK)	125	131	105	44.0-160	
Methylene Chloride	25.0	26.5	106	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	125	100	68.0-142	
Methyl tert-butyl ether	25.0	26.3	105	68.0-125	
Naphthalene	25.0	25.9	103	54.0-135	
n-Propylbenzene	25.0	26.4	105	77.0-124	
Styrene	25.0	26.8	107	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	27.1	108	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	27.1	108	65.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	25.0	100	69.0-132	
Toluene	25.0	24.4	97.6	79.0-120	
1,2,3-Trichlorobenzene	25.0	25.8	103	50.0-138	
1,2,4-Trichlorobenzene	25.0	26.7	107	57.0-137	
1,1,1-Trichloroethane	25.0	26.9	108	73.0-124	
1,1,2-Trichloroethane	25.0	25.8	103	80.0-120	
Trichloroethene	25.0	23.8	95.1	78.0-124	
Trichlorofluoromethane	25.0	21.5	86.0	59.0-147	
1,2,3-Trichloropropane	25.0	25.8	103	73.0-130	
1,2,4-Trimethylbenzene	25.0	25.7	103	76.0-121	
1,2,3-Trimethylbenzene	25.0	25.6	102	77.0-120	
1,3,5-Trimethylbenzene	25.0	24.9	99.6	76.0-122	
Vinyl acetate	125	149	119	11.0-160	
Vinyl chloride	25.0	27.0	108	67.0-131	
Xylenes, Total	75.0	74.9	99.9	79.0-123	
(S) Toluene-d8			105	80.0-120	
(S) 4-Bromofluorobenzene			104	77.0-126	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3435761-3 07/30/19 10:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
Vinyl chloride	U		0.118	0.500
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	103			77.0-126
(S) 1,2-Dichloroethane-d4	107			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435761-1 07/30/19 09:25 • (LCSD) R3435761-2 07/30/19 09:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	25.0	25.1	26.3	100	105	73.0-120			4.61	20
Tetrachloroethene	25.0	27.3	28.6	109	114	72.0-132			4.40	20
Trichloroethene	25.0	25.4	25.7	102	103	78.0-124			1.25	20
Vinyl chloride	25.0	28.5	29.1	114	117	67.0-131			2.07	20
(S) Toluene-d8				108	105	80.0-120				
(S) 4-Bromofluorobenzene				104	105	77.0-126				
(S) 1,2-Dichloroethane-d4				106	108	70.0-130				

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3436162-2 07/31/19 16:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Tetrachloroethene	U		0.199	0.500
(S) Toluene-d8	92.2			80.0-120
(S) 4-Bromofluorobenzene	99.0			77.0-126
(S) 1,2-Dichloroethane-d4	110			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3436162-1 07/31/19 14:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Tetrachloroethene	25.0	23.3	93.1	72.0-132	
(S) Toluene-d8			93.4	80.0-120	
(S) 4-Bromofluorobenzene			101	77.0-126	
(S) 1,2-Dichloroethane-d4			111	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

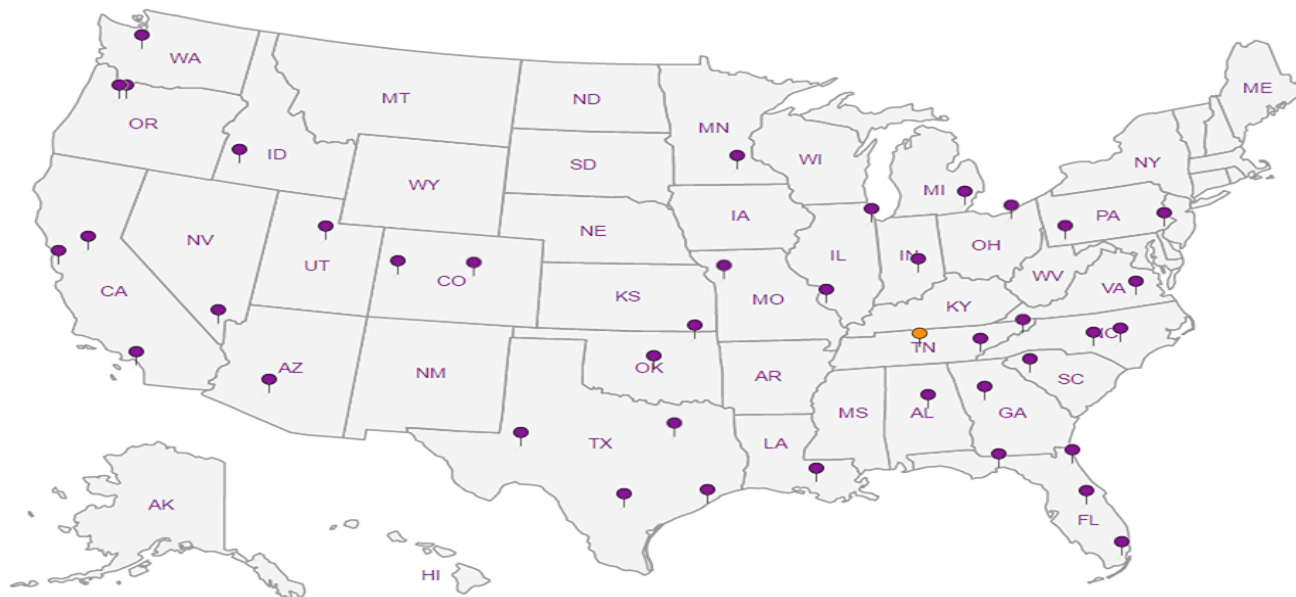
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
baldeman@pesenv.com;

IKVIK@PESENV.COM  
KSPRINGSTEAD@PESENV.COM

Project Description: *American Linen*

City/State Collected: *Seattle, WA*

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
*1413.001-05.601*

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
*Ben Hecht*

Site/Facility ID #  
*American Linen*

P.O. #

Collected by (signature):  
*[Signature]*

Rush? (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Date Results Needed  
*5 TAT*

Immediately Packed on Ice N  Y

No. of  
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,CI, SO4* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs 8260LLC 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-159-072219	Grab	GW	26	7-21-19	1650	6									-01
MW104-072219		GW	114	7-22-19	06:20	12									02
MW-148-072219		GW	75		10:05	12									03
MW-153-072219		GW	125		11:40	12									04
MW-157-072219		GW	75		12:30	12									05
MW-156-072219		GW	45		14:20	12									06
MW107-072219		GW	40		14:50	12									07
TRIP-072219	-	GW	-	7-22-19	1500	1									08
		GW													
		GW													

L# *1121210*  
**E156**  
Acctnum: PESENVSWA  
Template: T152679  
Prelogin: P718645  
TSR: 110 - Brian Ford  
PB: 7-5-19 85  
Shipped Via: FedEx Ground

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks: \*Nitrate has a 48 hour holding time.

*Tier QA/QC, bill PES, Email OKay*

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier

Tracking # *108259885609*

Sample Receipt Checklist  
 COC Seal Present/Intact:  NP  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

**RAD SCREEN: <0.5 mR/hr**

Relinquished by: (Signature) *[Signature]* Date: *7-22-19* Time: *1630*

Relinquished by: (Signature) Date: Time:

Relinquished by: (Signature) Date: Time:

Received by: (Signature) Trip Blank Received: Yes/No  HCL/MeOH TBR

Received by: (Signature) Temp: *A3DF °C* Bottles Received: *78*

Received for lab by: (Signature) Date: *7/23/19* Time: *0845*

If preservation required by Login: Date/Time

Hold: Condition: NCF  OK



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 06:38	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		07/25/2019 06:38	<a href="#">WG1317068</a>

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.13	J J	1.05	25.0	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Benzene	U		0.0896	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Bromoform	U		0.186	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Chlorobenzene	U		0.140	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Chloroethane	U		0.141	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Chloroform	U		0.0860	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Chloromethane	U		0.153	1.25	1	07/25/2019 00:48	<a href="#">WG1317007</a>
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Dibromomethane	U		0.117	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
cis-1,2-Dichloroethene	0.918		0.0933	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Ethylbenzene	U		0.158	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
2-Hexanone	U		0.757	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
n-Hexane	U		0.305	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Iodomethane	U		0.377	10.0	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Naphthalene	U		0.174	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Styrene	U		0.117	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Tetrachloroethene	U		0.199	0.500	1	07/31/2019 17:23	<a href="#">WG1320771</a>
Toluene	U		0.412	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Trichloroethene	U		0.153	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Vinyl acetate	U		0.645	5.00	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Vinyl chloride	0.691		0.118	0.500	1	07/25/2019 00:48	<a href="#">WG1317007</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 00:48	<a href="#">WG1317007</a>
(S) Toluene-d8	110			80.0-120		07/25/2019 00:48	<a href="#">WG1317007</a>
(S) Toluene-d8	97.7			80.0-120		07/31/2019 17:23	<a href="#">WG1320771</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/25/2019 00:48	<a href="#">WG1317007</a>
(S) 4-Bromofluorobenzene	95.4			77.0-126		07/31/2019 17:23	<a href="#">WG1320771</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/25/2019 00:48	<a href="#">WG1317007</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/31/2019 17:23	<a href="#">WG1320771</a>

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

JC 8/6/19





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	201000		2710	20000	1	07/26/2019 16:02	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-02 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	17000		51.9	1000	1	07/23/2019 16:59	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 16:59	<a href="#">WG1315944</a>
Sulfate	7400		77.4	5000	1	07/23/2019 16:59	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7110		204	2000	2	07/23/2019 22:07	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3000		15.0	100	1	07/23/2019 21:17	<a href="#">WG1316057</a>
Manganese	164		0.250	5.00	1	07/23/2019 21:17	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	50.4	J	31.6	100	1	07/25/2019 07:02	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/25/2019 07:02	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	375		0.287	0.678	1	07/26/2019 11:22	<a href="#">WG1317907</a>
Ethane	2.94		0.296	1.29	1	07/26/2019 11:22	<a href="#">WG1317907</a>
Ethene	28.6		0.422	1.27	1	07/26/2019 11:22	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	4.88	J	1.05	25.0	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Benzene	U		0.0896	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Bromoform	U		0.186	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 01:10	<a href="#">WG1317007</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>

JC 8/6/19

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



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 01:10	WG1317007
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 01:10	WG1317007
Chloroethane	U		0.141	2.50	1	07/25/2019 01:10	WG1317007
Chloroform	U		0.0860	0.500	1	07/25/2019 01:10	WG1317007
Chloromethane	U		0.153	1.25	1	07/25/2019 01:10	WG1317007
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 01:10	WG1317007
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 01:10	WG1317007
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 01:10	WG1317007
Dibromomethane	U		0.117	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 01:10	WG1317007
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 01:10	WG1317007
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 01:10	WG1317007
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 01:10	WG1317007
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 01:10	WG1317007
1,1-Dichloroethene	5.38		0.188	0.500	1	07/25/2019 01:10	WG1317007
cis-1,2-Dichloroethene	160		0.0933	0.500	1	07/25/2019 01:10	WG1317007
trans-1,2-Dichloroethene	2.10		0.152	0.500	1	07/25/2019 01:10	WG1317007
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 01:10	WG1317007
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 01:10	WG1317007
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 01:10	WG1317007
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 01:10	WG1317007
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 01:10	WG1317007
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 01:10	WG1317007
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 01:10	WG1317007
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 01:10	WG1317007
Ethylbenzene	U		0.158	0.500	1	07/25/2019 01:10	WG1317007
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 01:10	WG1317007
2-Hexanone	U		0.757	5.00	1	07/25/2019 01:10	WG1317007
n-Hexane	U		0.305	5.00	1	07/25/2019 01:10	WG1317007
Iodomethane	U		0.377	10.0	1	07/25/2019 01:10	WG1317007
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 01:10	WG1317007
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 01:10	WG1317007
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 01:10	WG1317007
Methylene Chloride	U		1.07	2.50	1	07/25/2019 01:10	WG1317007
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 01:10	WG1317007
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 01:10	WG1317007
Naphthalene	U		0.174	2.50	1	07/25/2019 01:10	WG1317007
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 01:10	WG1317007
Styrene	U		0.117	0.500	1	07/25/2019 01:10	WG1317007
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 01:10	WG1317007
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 01:10	WG1317007
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 01:10	WG1317007
Tetrachloroethene	0.282	J U	0.199	0.500	1	07/31/2019 17:43	WG1320771
Toluene	U		0.412	0.500	1	07/25/2019 01:10	WG1317007
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 01:10	WG1317007
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 01:10	WG1317007
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 01:10	WG1317007
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 01:10	WG1317007
Trichloroethene	28.3		0.153	0.500	1	07/25/2019 01:10	WG1317007
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 01:10	WG1317007
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 01:10	WG1317007
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 01:10	WG1317007
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 01:10	WG1317007
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 01:10	WG1317007

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Vinyl chloride	57.1		0.118	0.500	1	07/25/2019 01:10	<a href="#">WG1317007</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 01:10	<a href="#">WG1317007</a>
(S) Toluene-d8	106			80.0-120		07/25/2019 01:10	<a href="#">WG1317007</a>
(S) Toluene-d8	100			80.0-120		07/31/2019 17:43	<a href="#">WG1320771</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/25/2019 01:10	<a href="#">WG1317007</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/31/2019 17:43	<a href="#">WG1320771</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/25/2019 01:10	<a href="#">WG1317007</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/31/2019 17:43	<a href="#">WG1320771</a>

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

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	160000		2710	20000	1	07/26/2019 16:11	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-03 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	17000		51.9	1000	1	07/23/2019 18:04	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 18:04	<a href="#">WG1315944</a>
Sulfate	173000		387	25000	5	07/24/2019 08:21	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3510		102	1000	1	07/23/2019 23:22	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5440		15.0	100	1	07/23/2019 21:21	<a href="#">WG1316057</a>
Manganese	534		0.250	5.00	1	07/23/2019 21:21	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 07:26	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		07/25/2019 07:26	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1940		0.287	0.678	1	07/26/2019 11:27	<a href="#">WG1317907</a>
Ethane	U		0.296	1.29	1	07/26/2019 11:27	<a href="#">WG1317907</a>
Ethene	4.66		0.422	1.27	1	07/26/2019 11:27	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.48	J	1.05	25.0	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Acrylonitrile	U		0.873	5.00	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Benzene	U		0.0896	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Bromobenzene	U		0.133	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Bromodichloromethane	U		0.0800	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Bromochloromethane	U		0.145	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Bromoform	U		0.186	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Bromomethane	U		0.157	2.50	1	07/26/2019 21:29	<a href="#">WG1317370</a>
n-Butylbenzene	U		0.143	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
sec-Butylbenzene	U		0.134	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
tert-Butylbenzene	U		0.183	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Carbon disulfide	U		0.101	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Carbon tetrachloride	U		0.159	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>

JC 8/6/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/26/2019 21:29	WG1317370
Chlorodibromomethane	U		0.128	0.500	1	07/26/2019 21:29	WG1317370
Chloroethane	U		0.141	2.50	1	07/26/2019 21:29	WG1317370
Chloroform	U		0.0860	0.500	1	07/26/2019 21:29	WG1317370
Chloromethane	U		0.153	1.25	1	07/26/2019 21:29	WG1317370
2-Chlorotoluene	U		0.111	0.500	1	07/26/2019 21:29	WG1317370
4-Chlorotoluene	U		0.0972	0.500	1	07/26/2019 21:29	WG1317370
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/26/2019 21:29	WG1317370
1,2-Dibromoethane	U		0.193	0.500	1	07/26/2019 21:29	WG1317370
Dibromomethane	U		0.117	0.500	1	07/26/2019 21:29	WG1317370
1,2-Dichlorobenzene	U		0.101	0.500	1	07/26/2019 21:29	WG1317370
1,3-Dichlorobenzene	U		0.130	0.500	1	07/26/2019 21:29	WG1317370
1,4-Dichlorobenzene	U		0.121	0.500	1	07/26/2019 21:29	WG1317370
Dichlorodifluoromethane	U		0.127	2.50	1	07/26/2019 21:29	WG1317370
1,1-Dichloroethane	U		0.114	0.500	1	07/26/2019 21:29	WG1317370
1,2-Dichloroethane	U		0.108	0.500	1	07/26/2019 21:29	WG1317370
1,1-Dichloroethene	U		0.188	0.500	1	07/26/2019 21:29	WG1317370
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/26/2019 21:29	WG1317370
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/26/2019 21:29	WG1317370
1,2-Dichloropropane	U		0.190	0.500	1	07/26/2019 21:29	WG1317370
1,1-Dichloropropene	U		0.128	0.500	1	07/26/2019 21:29	WG1317370
1,3-Dichloropropane	U		0.147	1.00	1	07/26/2019 21:29	WG1317370
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/26/2019 21:29	WG1317370
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/26/2019 21:29	WG1317370
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/26/2019 21:29	WG1317370
2,2-Dichloropropane	U		0.0929	0.500	1	07/26/2019 21:29	WG1317370
Di-isopropyl ether	U		0.0924	0.500	1	07/26/2019 21:29	WG1317370
Ethylbenzene	U		0.158	0.500	1	07/26/2019 21:29	WG1317370
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/26/2019 21:29	WG1317370
2-Hexanone	U		0.757	5.00	1	07/26/2019 21:29	WG1317370
n-Hexane	U		0.305	5.00	1	07/26/2019 21:29	WG1317370
Iodomethane	U		0.377	10.0	1	07/26/2019 21:29	WG1317370
Isopropylbenzene	U		0.126	0.500	1	07/26/2019 21:29	WG1317370
p-Isopropyltoluene	U		0.138	0.500	1	07/26/2019 21:29	WG1317370
2-Butanone (MEK)	U		1.28	5.00	1	07/26/2019 21:29	WG1317370
Methylene Chloride	U		1.07	2.50	1	07/26/2019 21:29	WG1317370
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/26/2019 21:29	WG1317370
Methyl tert-butyl ether	U		0.102	0.500	1	07/26/2019 21:29	WG1317370
Naphthalene	U		0.174	2.50	1	07/26/2019 21:29	WG1317370
n-Propylbenzene	U		0.162	0.500	1	07/26/2019 21:29	WG1317370
Styrene	U		0.117	0.500	1	07/26/2019 21:29	WG1317370
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/26/2019 21:29	WG1317370
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/26/2019 21:29	WG1317370
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/26/2019 21:29	WG1317370
Tetrachloroethene	0.415	U B J	0.199	0.500	1	07/26/2019 21:29	WG1317370
Toluene	U		0.412	0.500	1	07/26/2019 21:29	WG1317370
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/26/2019 21:29	WG1317370
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/26/2019 21:29	WG1317370
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/26/2019 21:29	WG1317370
1,1,2-Trichloroethane	U		0.186	0.500	1	07/26/2019 21:29	WG1317370
Trichloroethene	U		0.153	0.500	1	07/26/2019 21:29	WG1317370
Trichlorofluoromethane	U		0.130	2.50	1	07/26/2019 21:29	WG1317370
1,2,3-Trichloropropane	U		0.247	2.50	1	07/26/2019 21:29	WG1317370
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/26/2019 21:29	WG1317370
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/26/2019 21:29	WG1317370
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/26/2019 21:29	WG1317370

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Vinyl chloride	0.253	J ↓	0.118	0.500	1	07/26/2019 21:29	<a href="#">WG1317370</a>
Xylenes, Total	U		0.316	1.50	1	07/26/2019 21:29	<a href="#">WG1317370</a>
(S) Toluene-d8	107			80.0-120		07/26/2019 21:29	<a href="#">WG1317370</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/26/2019 21:29	<a href="#">WG1317370</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/26/2019 21:29	<a href="#">WG1317370</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	160000		2710	20000	1	07/26/2019 16:19	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-04 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	8310		51.9	1000	1	07/23/2019 18:21	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 18:21	<a href="#">WG1315944</a>
Sulfate	6780		77.4	5000	1	07/23/2019 18:21	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1840	<del>B</del>	102	1000	1	07/23/2019 23:38	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1670		15.0	100	1	07/23/2019 20:29	<a href="#">WG1316057</a>
Manganese	325		0.250	5.00	1	07/23/2019 20:29	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 07:50	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/25/2019 07:50	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	27.0		0.287	0.678	1	07/26/2019 11:29	<a href="#">WG1317907</a>
Ethane	U		0.296	1.29	1	07/26/2019 11:29	<a href="#">WG1317907</a>
Ethene	U		0.422	1.27	1	07/26/2019 11:29	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	1.98	J J	1.05	25.0	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Benzene	0.177	J J	0.0896	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 12:38	<a href="#">WG1317389</a>
n-Butylbenzene	0.162	J J	0.143	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
sec-Butylbenzene	0.159	J J	0.134	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Carbon disulfide	0.250	J J	0.101	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 12:38	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 12:38	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 12:38	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 12:38	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 12:38	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 12:38	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 12:38	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 12:38	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 12:38	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 12:38	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 12:38	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 12:38	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 12:38	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 12:38	WG1317389
cis-1,2-Dichloroethene	0.384	J U	0.0933	0.500	1	07/25/2019 12:38	WG1317389
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 12:38	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 12:38	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 12:38	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 12:38	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 12:38	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 12:38	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 12:38	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 12:38	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 12:38	WG1317389
Ethylbenzene	0.227	J U	0.158	0.500	1	07/25/2019 12:38	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 12:38	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 12:38	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 12:38	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 12:38	WG1317389
Isopropylbenzene	0.134	J U	0.126	0.500	1	07/25/2019 12:38	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 12:38	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 12:38	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 12:38	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 12:38	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 12:38	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 12:38	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 12:38	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 12:38	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 12:38	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 12:38	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 12:38	WG1317389
Tetrachloroethene	U		0.199	0.500	1	07/30/2019 14:04	WG1319848
Toluene	0.716		0.412	0.500	1	07/25/2019 12:38	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 12:38	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 12:38	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 12:38	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 12:38	WG1317389
Trichloroethene	0.190	J U	0.153	0.500	1	07/25/2019 12:38	WG1317389
Trichlorofluoromethane	U	UJ UO	0.130	2.50	1	07/25/2019 12:38	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 12:38	WG1317389
1,2,4-Trimethylbenzene	0.225	J U	0.123	0.500	1	07/25/2019 12:38	WG1317389
1,2,3-Trimethylbenzene	0.139	J U	0.0739	0.500	1	07/25/2019 12:38	WG1317389
1,3,5-Trimethylbenzene	0.141	J U	0.124	0.500	1	07/25/2019 12:38	WG1317389

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

JC 8/6/19





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Vinyl chloride	0.235	J ↓	0.118	0.500	1	07/25/2019 12:38	<a href="#">WG1317389</a>
Xylenes, Total	0.819	J ↓	0.316	1.50	1	07/25/2019 12:38	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/25/2019 12:38	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/30/2019 14:04	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/25/2019 12:38	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/30/2019 14:04	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/25/2019 12:38	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/30/2019 14:04	<a href="#">WG1319848</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	464000		2710	20000	1	07/26/2019 16:35	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-05 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	43700		51.9	1000	1	07/23/2019 18:37	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 18:37	<a href="#">WG1315944</a>
Sulfate	46700		77.4	5000	1	07/23/2019 18:37	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14900		102	1000	1	07/23/2019 23:55	<a href="#">WG1315948</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	11400		15.0	100	1	07/23/2019 21:26	<a href="#">WG1316057</a>
Manganese	1730		1.25	25.0	5	07/23/2019 21:51	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3880	J+	31.6	100	1	07/25/2019 08:13	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/25/2019 08:13	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	5090		0.287	0.678	1	07/26/2019 11:32	<a href="#">WG1317907</a>
Ethane	45.8		0.296	1.29	1	07/26/2019 11:32	<a href="#">WG1317907</a>
Ethene	56.2		0.422	1.27	1	07/26/2019 11:32	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.65	J J	1.05	25.0	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Benzene	0.327	J J	0.0896	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 13:26	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 13:26	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 13:26	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 13:26	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 13:26	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 13:26	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 13:26	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 13:26	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 13:26	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 13:26	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 13:26	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 13:26	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 13:26	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 13:26	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 13:26	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 13:26	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 13:26	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 13:26	WG1317389
1,1-Dichloroethene	17.5		0.188	0.500	1	07/25/2019 13:26	WG1317389
cis-1,2-Dichloroethene	4530		9.33	50.0	100	07/30/2019 14:26	WG1319848
trans-1,2-Dichloroethene	18.4		0.152	0.500	1	07/25/2019 13:26	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 13:26	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 13:26	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 13:26	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 13:26	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 13:26	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 13:26	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 13:26	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 13:26	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 13:26	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 13:26	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 13:26	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 13:26	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 13:26	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 13:26	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 13:26	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 13:26	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 13:26	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 13:26	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 13:26	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 13:26	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 13:26	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 13:26	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 13:26	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 13:26	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 13:26	WG1317389
Tetrachloroethene	U		19.9	50.0	100	07/30/2019 14:26	WG1319848
Toluene	U		0.412	0.500	1	07/25/2019 13:26	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 13:26	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 13:26	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 13:26	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 13:26	WG1317389
Trichloroethene	27.6		0.153	0.500	1	07/25/2019 13:26	WG1317389
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/25/2019 13:26	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 13:26	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 13:26	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 13:26	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 13:26	WG1317389

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 13:26	<a href="#">WG1317389</a>
Vinyl chloride	666		11.8	50.0	100	07/30/2019 14:26	<a href="#">WG1319848</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 13:26	<a href="#">WG1317389</a>
(S) Toluene-d8	108			80.0-120		07/25/2019 13:26	<a href="#">WG1317389</a>
(S) Toluene-d8	105			80.0-120		07/30/2019 14:26	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/25/2019 13:26	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	99.3			77.0-126		07/30/2019 14:26	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/25/2019 13:26	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/30/2019 14:26	<a href="#">WG1319848</a>

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

Sample Narrative:

L1121210-05 WG1317389, WG1319848: Not all compounds reportable at lower dilution.  
 L1121210-05 WG1317389, WG1319848: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	606000		2710	20000	1	07/26/2019 16:42	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-06 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	45500		51.9	1000	1	07/23/2019 19:27	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 19:27	<a href="#">WG1315944</a>
Sulfate	181000		387	25000	5	07/24/2019 08:57	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	42000		102	1000	1	07/25/2019 00:00	<a href="#">WG1316685</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	19900		15.0	100	1	07/23/2019 21:30	<a href="#">WG1316057</a>
Manganese	8680		2.50	50.0	10	07/23/2019 21:56	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3100	J+	31.6	100	1	07/25/2019 08:37	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		07/25/2019 08:37	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	2340		0.287	0.678	1	07/26/2019 11:40	<a href="#">WG1317907</a>
Ethane	50.0		0.296	1.29	1	07/26/2019 11:40	<a href="#">WG1317907</a>
Ethene	U		0.422	1.27	1	07/26/2019 11:40	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	4.94	J J	1.05	25.0	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Benzene	0.492	J J	0.0896	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 14:13	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/22/19 14:20

L1121210

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 14:13	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 14:13	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 14:13	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 14:13	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 14:13	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 14:13	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 14:13	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 14:13	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 14:13	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 14:13	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 14:13	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 14:13	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 14:13	WG1317389
1,1-Dichloroethene	13.2		0.188	0.500	1	07/25/2019 14:13	WG1317389
cis-1,2-Dichloroethene	2310		4.66	25.0	50	07/30/2019 18:58	WG1319848
trans-1,2-Dichloroethene	14.5		0.152	0.500	1	07/25/2019 14:13	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 14:13	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 14:13	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 14:13	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 14:13	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 14:13	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 14:13	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 14:13	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 14:13	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 14:13	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 14:13	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 14:13	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 14:13	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 14:13	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 14:13	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 14:13	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 14:13	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 14:13	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 14:13	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 14:13	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 14:13	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 14:13	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 14:13	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 14:13	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 14:13	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 14:13	WG1317389
Tetrachloroethene	232		9.95	25.0	50	07/30/2019 18:58	WG1319848
Toluene	U		0.412	0.500	1	07/25/2019 14:13	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 14:13	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 14:13	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 14:13	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 14:13	WG1317389
Trichloroethene	1270		7.65	25.0	50	07/30/2019 18:58	WG1319848
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/25/2019 14:13	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 14:13	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 14:13	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 14:13	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 14:13	WG1317389

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

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Vinyl chloride	82.0		0.118	0.500	1	07/25/2019 14:13	<a href="#">WG1317389</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 14:13	<a href="#">WG1317389</a>
(S) Toluene-d8	108			80.0-120		07/25/2019 14:13	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/30/2019 18:58	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/25/2019 14:13	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/30/2019 18:58	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/25/2019 14:13	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/30/2019 18:58	<a href="#">WG1319848</a>

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

JC 8/6/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	527000		2710	20000	1	07/26/2019 16:49	<a href="#">WG1317446</a>

Sample Narrative:

L1121210-07 WG1317446: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	40300		51.9	1000	1	07/23/2019 19:43	<a href="#">WG1315944</a>
Nitrate	U		22.7	100	1	07/23/2019 19:43	<a href="#">WG1315944</a>
Sulfate	30300		77.4	5000	1	07/23/2019 19:43	<a href="#">WG1315944</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	18900		102	1000	1	07/25/2019 00:15	<a href="#">WG1316685</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3080		15.0	100	1	07/23/2019 21:35	<a href="#">WG1316057</a>
Manganese	1040		0.250	5.00	1	07/23/2019 21:35	<a href="#">WG1316057</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	210	J+	31.6	100	1	07/25/2019 09:01	<a href="#">WG1317068</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/25/2019 09:01	<a href="#">WG1317068</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	16400		2.87	6.78	10	07/26/2019 14:42	<a href="#">WG1317908</a>
Ethane	133		0.296	1.29	1	07/26/2019 11:44	<a href="#">WG1317907</a>
Ethene	81.5		0.422	1.27	1	07/26/2019 11:44	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	1.28	J J	1.05	25.0	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Benzene	0.188	J J	0.0896	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 14:36	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 14:36	<a href="#">WG1317389</a>

JC 8/6/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 14:36	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 14:36	WG1317389
Chloroethane	3.61		0.141	2.50	1	07/25/2019 14:36	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 14:36	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 14:36	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 14:36	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 14:36	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 14:36	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 14:36	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 14:36	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 14:36	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 14:36	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 14:36	WG1317389
1,1-Dichloroethene	0.825		0.188	0.500	1	07/25/2019 14:36	WG1317389
cis-1,2-Dichloroethene	290		0.933	5.00	10	07/30/2019 15:10	WG1319848
trans-1,2-Dichloroethene	7.08		0.152	0.500	1	07/25/2019 14:36	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 14:36	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 14:36	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 14:36	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 14:36	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 14:36	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 14:36	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 14:36	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 14:36	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 14:36	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 14:36	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 14:36	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 14:36	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 14:36	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 14:36	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 14:36	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 14:36	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 14:36	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 14:36	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 14:36	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 14:36	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 14:36	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 14:36	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 14:36	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 14:36	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 14:36	WG1317389
Tetrachloroethene	U		1.99	5.00	10	07/30/2019 15:10	WG1319848
Toluene	0.758		0.412	0.500	1	07/25/2019 14:36	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 14:36	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 14:36	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 14:36	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 14:36	WG1317389
Trichloroethene	2.62	J J	1.53	5.00	10	07/30/2019 15:10	WG1319848
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/25/2019 14:36	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 14:36	WG1317389
1,2,4-Trimethylbenzene	0.144	J J	0.123	0.500	1	07/25/2019 14:36	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 14:36	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 14:36	WG1317389

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

JC 8/6/19



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	07/25/2019 14:36	<a href="#">WG1317389</a>
Vinyl chloride	307		1.18	5.00	10	07/30/2019 15:10	<a href="#">WG1319848</a>
Xylenes, Total	0.609	J ↓	0.316	1.50	1	07/25/2019 14:36	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/25/2019 14:36	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/30/2019 15:10	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/25/2019 14:36	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/30/2019 15:10	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/25/2019 14:36	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/30/2019 15:10	<a href="#">WG1319848</a>

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

Sample Narrative:

L1121210-07 WG1317389, WG1319848: Not all compounds reportable at lower dilution.  
 L1121210-07 WG1317389, WG1319848: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

JC 8/6/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/25/2019 13:13	<a href="#">WG1317381</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/25/2019 13:13	<a href="#">WG1317381</a>

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Benzene	U		0.0896	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Bromoform	U		0.186	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Chlorobenzene	U		0.140	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Chloroethane	U		0.141	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Chloroform	U		0.0860	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Chloromethane	U		0.153	1.25	1	07/25/2019 00:05	<a href="#">WG1317007</a>
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Dibromomethane	U		0.117	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Ethylbenzene	U		0.158	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
2-Hexanone	U		0.757	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
n-Hexane	U		0.305	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Iodomethane	U		0.377	10.0	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>

JC 8/6/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Naphthalene	U		0.174	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Styrene	U		0.117	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Tetrachloroethene	1.07	<u>B</u>	0.199	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Toluene	U		0.412	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Trichloroethene	U		0.153	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Vinyl acetate	U		0.645	5.00	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Vinyl chloride	U		0.118	0.500	1	07/25/2019 00:05	<a href="#">WG1317007</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 00:05	<a href="#">WG1317007</a>
(S) Toluene-d8	106			80.0-120		07/25/2019 00:05	<a href="#">WG1317007</a>
(S) 4-Bromofluorobenzene	98.4			77.0-126		07/25/2019 00:05	<a href="#">WG1317007</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/25/2019 00:05	<a href="#">WG1317007</a>

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

Sample Narrative:

L1121210-08 WG1317007: PCE detection likely from instrument contamination/carryover, no sample remaining for re-analysis.

JC 8/6/19

July 31, 2019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## PES Environmental, Inc.- WA

Sample Delivery Group: L1121576  
Samples Received: 07/24/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:

*Brian Ford*

Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



<b>Cp: Cover Page</b>	<b>1</b>	<b><sup>1</sup>Cp</b>
<b>Tc: Table of Contents</b>	<b>2</b>	<b><sup>2</sup>Tc</b>
<b>Ss: Sample Summary</b>	<b>3</b>	<b><sup>3</sup>Ss</b>
<b>Cn: Case Narrative</b>	<b>4</b>	<b><sup>4</sup>Cn</b>
<b>Sr: Sample Results</b>	<b>5</b>	<b><sup>5</sup>Sr</b>
MW-160-072319 L1121576-01	<b>5</b>	
W-MW-01-072319 L1121576-02	<b>8</b>	
MW-155-072319 L1121576-03	<b>11</b>	
W-MW-02 L1121576-04	<b>13</b>	
TRIP-072319 L1121576-05	<b>16</b>	<b><sup>6</sup>Qc</b>
<b>Qc: Quality Control Summary</b>	<b>18</b>	<b><sup>7</sup>Gl</b>
Wet Chemistry by Method 2320 B-2011	<b>18</b>	
Wet Chemistry by Method 9056A	<b>19</b>	<b><sup>8</sup>Al</b>
Wet Chemistry by Method 9060A	<b>21</b>	
Metals (ICPMS) by Method 6020B	<b>23</b>	<b><sup>9</sup>Sc</b>
Volatile Organic Compounds (GC) by Method NWTPHGX	<b>24</b>	
Volatile Organic Compounds (GC) by Method RSK175	<b>26</b>	
Volatile Organic Compounds (GC/MS) by Method 8260C	<b>28</b>	
<b>Gl: Glossary of Terms</b>	<b>37</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>38</b>	
<b>Sc: Sample Chain of Custody</b>	<b>39</b>	

# SAMPLE SUMMARY



## MW-160-072319 L1121576-01 GW

Collected by  
Ben Hecht  
Collected date/time  
07/23/19 06:25  
Received date/time  
07/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317887	1	07/26/19 20:29	07/26/19 20:29	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1316545	1	07/24/19 15:35	07/24/19 15:35	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1317639	1	07/25/19 17:42	07/25/19 17:42	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1317876	1	07/27/19 12:36	07/28/19 19:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1318107	1	07/26/19 16:10	07/26/19 16:10	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317907	1	07/26/19 12:43	07/26/19 12:43	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317389	1	07/25/19 14:58	07/25/19 14:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1319848	1	07/30/19 19:52	07/30/19 19:52	DWR	Mt. Juliet, TN

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## W-MW-01-072319 L1121576-02 GW

Collected by  
Ben Hecht  
Collected date/time  
07/23/19 09:25  
Received date/time  
07/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317887	1	07/26/19 20:43	07/26/19 20:43	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1316545	1	07/24/19 15:51	07/24/19 15:51	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1317639	1	07/25/19 18:17	07/25/19 18:17	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1317876	1	07/27/19 12:36	07/28/19 19:50	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1318107	1	07/26/19 16:34	07/26/19 16:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317907	1	07/26/19 12:54	07/26/19 12:54	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317389	1	07/25/19 15:20	07/25/19 15:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1319848	1	07/30/19 20:14	07/30/19 20:14	DWR	Mt. Juliet, TN

## MW-155-072319 L1121576-03 GW

Collected by  
Ben Hecht  
Collected date/time  
07/23/19 09:35  
Received date/time  
07/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1318107	1	07/26/19 16:58	07/26/19 16:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317389	1	07/25/19 15:41	07/25/19 15:41	BMB	Mt. Juliet, TN

## W-MW-02 L1121576-04 GW

Collected by  
Ben Hecht  
Collected date/time  
07/23/19 11:50  
Received date/time  
07/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1317887	1	07/26/19 20:50	07/26/19 20:50	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1316545	1	07/24/19 16:08	07/24/19 16:08	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1317639	1	07/25/19 18:33	07/25/19 18:33	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1317876	1	07/27/19 12:36	07/28/19 19:54	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1318107	1	07/26/19 17:22	07/26/19 17:22	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1317907	1	07/26/19 12:57	07/26/19 12:57	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1318268	10	07/26/19 15:08	07/26/19 15:08	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317389	1	07/25/19 16:03	07/25/19 16:03	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1319848	1	07/30/19 20:36	07/30/19 20:36	DWR	Mt. Juliet, TN

## TRIP-072319 L1121576-05 GW

Collected by  
Ben Hecht  
Collected date/time  
07/23/19 13:25  
Received date/time  
07/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1318530	1	07/27/19 11:30	07/27/19 11:30	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1317007	1	07/25/19 00:27	07/25/19 00:27	ACG	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

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





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	182000		2710	20000	1	07/26/2019 20:29	<a href="#">WG1317887</a>

Sample Narrative:

L1121576-01 WG1317887: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	8280		51.9	1000	1	07/24/2019 15:35	<a href="#">WG1316545</a>
Nitrate	U		22.7	100	1	07/24/2019 15:35	<a href="#">WG1316545</a>
Sulfate	2640	J	77.4	5000	1	07/24/2019 15:35	<a href="#">WG1316545</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1950	B P1	102	1000	1	07/25/2019 17:42	<a href="#">WG1317639</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2680		15.0	100	1	07/28/2019 19:27	<a href="#">WG1317876</a>
Manganese	408	V	0.250	5.00	1	07/28/2019 19:27	<a href="#">WG1317876</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 16:10	<a href="#">WG1318107</a>
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		07/26/2019 16:10	<a href="#">WG1318107</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	535		0.287	0.678	1	07/26/2019 12:43	<a href="#">WG1317907</a>
Ethane	U		0.296	1.29	1	07/26/2019 12:43	<a href="#">WG1317907</a>
Ethene	U		0.422	1.27	1	07/26/2019 12:43	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	1.98	J	1.05	25.0	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Benzene	U		0.0896	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 14:58	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	07/25/2019 14:58	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 14:58	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 14:58	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 14:58	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 14:58	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 14:58	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 14:58	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 14:58	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 14:58	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 14:58	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 14:58	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 14:58	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 14:58	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 14:58	WG1317389
cis-1,2-Dichloroethene	0.217	U	0.0933	0.500	1	07/30/2019 19:52	WG1319848
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 14:58	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 14:58	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 14:58	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 14:58	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 14:58	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 14:58	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 14:58	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 14:58	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 14:58	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 14:58	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 14:58	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 14:58	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 14:58	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 14:58	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 14:58	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 14:58	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 14:58	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 14:58	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 14:58	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 14:58	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 14:58	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 14:58	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 14:58	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 14:58	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 14:58	WG1317389
Tetrachloroethene	U		0.199	0.500	1	07/30/2019 19:52	WG1319848
Toluene	U		0.412	0.500	1	07/25/2019 14:58	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 14:58	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 14:58	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 14:58	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 14:58	WG1317389
Trichloroethene	U		0.153	0.500	1	07/30/2019 19:52	WG1319848
Trichlorofluoromethane	U	U	0.130	2.50	1	07/25/2019 14:58	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 14:58	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 14:58	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 14:58	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 14:58	WG1317389

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Vinyl chloride	0.326	↓	0.118	0.500	1	07/30/2019 19:52	<a href="#">WG1319848</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 14:58	<a href="#">WG1317389</a>
(S) Toluene-d8	107			80.0-120		07/25/2019 14:58	<a href="#">WG1317389</a>
(S) Toluene-d8	107			80.0-120		07/30/2019 19:52	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/25/2019 14:58	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/30/2019 19:52	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/25/2019 14:58	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/30/2019 19:52	<a href="#">WG1319848</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	242000		2710	20000	1	07/26/2019 20:43	<a href="#">WG1317887</a>

Sample Narrative:

L1121576-02 WG1317887: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	33200		51.9	1000	1	07/24/2019 15:51	<a href="#">WG1316545</a>
Nitrate	U		22.7	100	1	07/24/2019 15:51	<a href="#">WG1316545</a>
Sulfate	78900		77.4	5000	1	07/24/2019 15:51	<a href="#">WG1316545</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2730		102	1000	1	07/25/2019 18:17	<a href="#">WG1317639</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	614		15.0	100	1	07/28/2019 19:50	<a href="#">WG1317876</a>
Manganese	323		0.250	5.00	1	07/28/2019 19:50	<a href="#">WG1317876</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 16:34	<a href="#">WG1318107</a>
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		07/26/2019 16:34	<a href="#">WG1318107</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	327		0.287	0.678	1	07/26/2019 12:54	<a href="#">WG1317907</a>
Ethane	3.96		0.296	1.29	1	07/26/2019 12:54	<a href="#">WG1317907</a>
Ethene	7.04		0.422	1.27	1	07/26/2019 12:54	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Benzene	U		0.0896	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 15:20	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 15:20	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 15:20	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 15:20	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 15:20	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 15:20	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 15:20	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 15:20	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 15:20	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 15:20	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 15:20	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 15:20	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 15:20	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 15:20	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 15:20	WG1317389
cis-1,2-Dichloroethene	0.547		0.0933	0.500	1	07/30/2019 20:14	WG1319848
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 15:20	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 15:20	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 15:20	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 15:20	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 15:20	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 15:20	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 15:20	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 15:20	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 15:20	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 15:20	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 15:20	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 15:20	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 15:20	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 15:20	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 15:20	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 15:20	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 15:20	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 15:20	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 15:20	WG1317389
Naphthalene	0.211	U	0.174	2.50	1	07/25/2019 15:20	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 15:20	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 15:20	WG1317389
1,1,1-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 15:20	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 15:20	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 15:20	WG1317389
Tetrachloroethene	U		0.199	0.500	1	07/30/2019 20:14	WG1319848
Toluene	U		0.412	0.500	1	07/25/2019 15:20	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 15:20	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 15:20	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 15:20	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 15:20	WG1317389
Trichloroethene	0.304	U	0.153	0.500	1	07/30/2019 20:14	WG1319848
Trichlorofluoromethane	U	UO	0.130	2.50	1	07/25/2019 15:20	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 15:20	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 15:20	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 15:20	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 15:20	WG1317389

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Vinyl chloride	9.00		0.118	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 15:20	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/25/2019 15:20	<a href="#">WG1317389</a>
(S) Toluene-d8	108			80.0-120		07/30/2019 20:14	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/25/2019 15:20	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/30/2019 20:14	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/25/2019 15:20	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/30/2019 20:14	<a href="#">WG1319848</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 16:58	<a href="#">WG1318107</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/26/2019 16:58	<a href="#">WG1318107</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.69	J	1.05	25.0	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Benzene	U		0.0896	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Chlorobenzene	U		0.140	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Chloroethane	U		0.141	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Chloroform	U		0.0860	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Chloromethane	U		0.153	1.25	1	07/25/2019 15:41	<a href="#">WG1317389</a>
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Dibromomethane	U		0.117	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
cis-1,2-Dichloroethene	12.1		0.0933	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Ethylbenzene	U		0.158	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
2-Hexanone	U		0.757	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
n-Hexane	U		0.305	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Iodomethane	U		0.377	10.0	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Naphthalene	U		0.174	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Styrene	U		0.117	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Tetrachloroethene	92.7		0.199	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Toluene	U		0.412	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Trichloroethene	19.9		0.153	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Vinyl acetate	U		0.645	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Vinyl chloride	0.350	<u>J</u>	0.118	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
(S) Toluene-d8	107			80.0-120		07/25/2019 15:41	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/25/2019 15:41	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/25/2019 15:41	<a href="#">WG1317389</a>

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





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	965000		2710	20000	1	07/26/2019 20:50	<a href="#">WG1317887</a>

Sample Narrative:

L1121576-04 WG1317887: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	98400		51.9	1000	1	07/24/2019 16:08	<a href="#">WG1316545</a>
Nitrate	U		22.7	100	1	07/24/2019 16:08	<a href="#">WG1316545</a>
Sulfate	3240	J	77.4	5000	1	07/24/2019 16:08	<a href="#">WG1316545</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	43400		102	1000	1	07/25/2019 18:33	<a href="#">WG1317639</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	13600		15.0	100	1	07/28/2019 19:54	<a href="#">WG1317876</a>
Manganese	3470		0.250	5.00	1	07/28/2019 19:54	<a href="#">WG1317876</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 17:22	<a href="#">WG1318107</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/26/2019 17:22	<a href="#">WG1318107</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	25700		2.87	6.78	10	07/26/2019 15:08	<a href="#">WG1318268</a>
Ethane	U		0.296	1.29	1	07/26/2019 12:57	<a href="#">WG1317907</a>
Ethene	15.0		0.422	1.27	1	07/26/2019 12:57	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Benzene	U		0.0896	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 16:03	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 16:03	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 16:03	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 16:03	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 16:03	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 16:03	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 16:03	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 16:03	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 16:03	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 16:03	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 16:03	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 16:03	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 16:03	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 16:03	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 16:03	WG1317389
cis-1,2-Dichloroethene	3.30		0.0933	0.500	1	07/30/2019 20:36	WG1319848
trans-1,2-Dichloroethene	0.386	<u>I</u>	0.152	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 16:03	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 16:03	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 16:03	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 16:03	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 16:03	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 16:03	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 16:03	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 16:03	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 16:03	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 16:03	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 16:03	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 16:03	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 16:03	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 16:03	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 16:03	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 16:03	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 16:03	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 16:03	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 16:03	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 16:03	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 16:03	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 16:03	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 16:03	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 16:03	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 16:03	WG1317389
Tetrachloroethene	U		0.199	0.500	1	07/30/2019 20:36	WG1319848
Toluene	1.35		0.412	0.500	1	07/25/2019 16:03	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 16:03	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 16:03	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 16:03	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 16:03	WG1317389
Trichloroethene	U		0.153	0.500	1	07/30/2019 20:36	WG1319848
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	07/25/2019 16:03	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 16:03	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 16:03	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 16:03	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 16:03	WG1317389

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Vinyl chloride	6.79		0.118	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 16:03	<a href="#">WG1317389</a>
(S) Toluene-d8	109			80.0-120		07/25/2019 16:03	<a href="#">WG1317389</a>
(S) Toluene-d8	108			80.0-120		07/30/2019 20:36	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/25/2019 16:03	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	99.2			77.0-126		07/30/2019 20:36	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/25/2019 16:03	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/30/2019 20:36	<a href="#">WG1319848</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/27/2019 11:30	<a href="#">WG1318530</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/27/2019 11:30	<a href="#">WG1318530</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.73	J	1.05	25.0	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Benzene	U		0.0896	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Bromoform	U		0.186	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Chlorobenzene	U		0.140	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Chloroethane	U		0.141	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Chloroform	U		0.0860	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Chloromethane	U		0.153	1.25	1	07/25/2019 00:27	<a href="#">WG1317007</a>
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Dibromomethane	U		0.117	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Ethylbenzene	U		0.158	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
2-Hexanone	U		0.757	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
n-Hexane	U		0.305	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Iodomethane	U		0.377	10.0	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Naphthalene	U		0.174	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Styrene	U		0.117	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Tetrachloroethene	1.03	<u>B</u>	0.199	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Toluene	U		0.412	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Trichloroethene	U		0.153	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Vinyl acetate	U		0.645	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Vinyl chloride	U		0.118	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
(S) Toluene-d8	107			80.0-120		07/25/2019 00:27	<a href="#">WG1317007</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/25/2019 00:27	<a href="#">WG1317007</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/25/2019 00:27	<a href="#">WG1317007</a>

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

Sample Narrative:

L1121576-05 WG1317007: PCE detection is likely from instrument contamination/carryover, no sample remaining for re-analysis



Method Blank (MB)

(MB) R3435128-1 07/26/19 18:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	3080	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1121548-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1121548-01 07/26/19 19:14 • (DUP) R3435128-2 07/26/19 19:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	538000	531000	1	1.28		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

L1121576-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1121576-01 07/26/19 20:29 • (DUP) R3435128-4 07/26/19 20:35

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	182000	179000	1	1.67		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3435128-3 07/26/19 20:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	102000	102	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

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



Method Blank (MB)

(MB) R3433985-1 07/24/19 11:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1121543-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1121543-10 07/24/19 12:51 • (DUP) R3433985-3 07/24/19 13:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	1420	1270	1	10.7		15
Nitrate	271	375	1	32.5	P1	15
Sulfate	17800	18900	1	6.04		15

L1121584-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1121584-03 07/24/19 18:19 • (DUP) R3433985-6 07/24/19 18:35

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	2560	2540	1	0.835		15
Nitrate	2460	2490	1	1.24		15
Sulfate	38400	38200	1	0.367		15

Laboratory Control Sample (LCS)

(LCS) R3433985-2 07/24/19 11:28

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	39000	97.5	80.0-120	
Nitrate	8000	8030	100	80.0-120	
Sulfate	40000	38900	97.3	80.0-120	



L1121543-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1121543-10 07/24/19 12:51 • (MS) R3433985-4 07/24/19 13:23 • (MSD) R3433985-5 07/24/19 13:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	1420	51200	51000	99.5	99.2	1	80.0-120			0.336	15
Nitrate	5000	271	5240	5240	99.5	99.3	1	80.0-120			0.160	15
Sulfate	50000	17800	70400	70300	105	105	1	80.0-120			0.143	15

L1121584-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1121584-03 07/24/19 18:19 • (MS) R3433985-7 07/24/19 18:52

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	2560	52600	100	1	80.0-120	
Nitrate	5000	2460	7670	104	1	80.0-120	
Sulfate	50000	38400	89600	103	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3434554-1 07/25/19 16:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	195	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

L1121576-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1121576-01 07/25/19 17:42 • (DUP) R3434554-3 07/25/19 18:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1950	1590	1	20.2	P1	20

5 Sr

6 Qc

L1122111-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1122111-06 07/26/19 02:07 • (DUP) R3434554-8 07/26/19 02:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1460	1360	1	6.82		20

7 Gl

8 Al

L1122111-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1122111-02 07/26/19 09:39 • (DUP) R3434554-10 07/26/19 13:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	5150	5710	1	10.3		20

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3434554-2 07/25/19 17:19

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	74400	99.3	85.0-115	



L1121950-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1121950-01 07/25/19 19:52 • (MS) R3434554-4 07/25/19 21:11 • (MSD) R3434554-5 07/25/19 21:27

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	ND	49000	49100	97.3	97.4	1	80.0-120			0.122	20

L1122087-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1122087-04 07/25/19 23:03 • (MS) R3434554-6 07/26/19 00:24 • (MSD) R3434554-7 07/26/19 00:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	9630	61000	60400	103	101	1	80.0-120			1.12	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3435097-1 07/28/19 19:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435097-2 07/28/19 19:18 • (LCSD) R3435097-3 07/28/19 19:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	5010	4980	100	99.6	80.0-120			0.663	20
Manganese	50.0	49.2	49.0	98.4	98.0	80.0-120			0.438	20

5 Sr

6 Qc

L1121576-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1121576-01 07/28/19 19:27 • (MS) R3435097-5 07/28/19 19:36 • (MSD) R3435097-6 07/28/19 19:41

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	2680	7350	7540	93.4	97.1	1	75.0-125			2.47	20
Manganese	50.0	408	438	449	60.7	83.6	1	75.0-125	V		2.58	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3435342-3 07/26/19 11:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3435342-2 07/26/19 10:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5160	93.8	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			94.5	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3435720-3 07/27/19 10:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3435720-2 07/27/19 09:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5220	95.0	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			99.4	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3434651-1 07/26/19 10:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1121638-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1121638-01 07/26/19 11:03 • (DUP) R3434651-2 07/26/19 11:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1121358-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1121358-06 07/26/19 12:40 • (DUP) R3434651-3 07/26/19 13:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434651-4 07/26/19 13:04 • (LCSD) R3434651-5 07/26/19 13:07

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	72.5	72.0	107	106	85.0-115			0.736	20
Ethane	129	118	121	91.7	93.7	85.0-115			2.15	20
Ethene	127	118	120	92.8	94.3	85.0-115			1.55	20



Method Blank (MB)

(MB) R3434768-1 07/26/19 15:00

Analyte	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Methane	U		0.287	0.678

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434768-2 07/26/19 15:27 • (LCSD) R3434768-3 07/26/19 15:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Methane	67.8	73.6	72.2	109	106	85.0-115			1.94	20

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3434112-2 07/24/19 18:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

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





Method Blank (MB)

(MB) R3434112-2 07/24/19 18:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	0.226	U	0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	2.04		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	105			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3434112-1 07/24/19 09:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	125	135	108	19.0-160	
Acrylonitrile	125	140	112	55.0-149	
Benzene	25.0	25.0	99.9	70.0-123	
Bromobenzene	25.0	23.5	94.1	73.0-121	
Bromodichloromethane	25.0	26.7	107	75.0-120	
Bromochloromethane	25.0	26.5	106	76.0-122	
Bromoform	25.0	24.5	97.9	68.0-132	
Bromomethane	25.0	26.2	105	10.0-160	
n-Butylbenzene	25.0	27.5	110	73.0-125	
sec-Butylbenzene	25.0	26.9	108	75.0-125	
tert-Butylbenzene	25.0	26.8	107	76.0-124	
Carbon disulfide	25.0	25.8	103	61.0-128	
Carbon tetrachloride	25.0	29.1	116	68.0-126	
Chlorobenzene	25.0	25.5	102	80.0-121	
Chlorodibromomethane	25.0	27.5	110	77.0-125	
Chloroethane	25.0	25.6	102	47.0-150	
Chloroform	25.0	24.9	99.6	73.0-120	
Chloromethane	25.0	23.7	94.8	41.0-142	
2-Chlorotoluene	25.0	24.7	98.9	76.0-123	
4-Chlorotoluene	25.0	25.0	99.9	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	24.5	97.9	58.0-134	
1,2-Dibromoethane	25.0	27.4	110	80.0-122	
Dibromomethane	25.0	26.8	107	80.0-120	
1,2-Dichlorobenzene	25.0	25.1	100	79.0-121	
1,3-Dichlorobenzene	25.0	25.2	101	79.0-120	
1,4-Dichlorobenzene	25.0	25.0	100	79.0-120	
Dichlorodifluoromethane	25.0	25.7	103	51.0-149	
1,1-Dichloroethane	25.0	25.7	103	70.0-126	
1,2-Dichloroethane	25.0	26.3	105	70.0-128	
1,1-Dichloroethene	25.0	26.4	105	71.0-124	
cis-1,2-Dichloroethene	25.0	25.1	100	73.0-120	
trans-1,2-Dichloroethene	25.0	25.4	102	73.0-120	
1,2-Dichloropropane	25.0	25.9	104	77.0-125	
1,1-Dichloropropene	25.0	26.1	104	74.0-126	
1,3-Dichloropropane	25.0	26.0	104	80.0-120	
cis-1,3-Dichloropropene	25.0	26.7	107	80.0-123	
trans-1,3-Dichloropropene	25.0	26.6	106	78.0-124	
trans-1,4-Dichloro-2-butene	25.0	21.5	86.1	33.0-144	
2,2-Dichloropropane	25.0	27.3	109	58.0-130	
Di-isopropyl ether	25.0	25.9	104	58.0-138	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3434112-1 07/24/19 09:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	25.0	25.1	101	79.0-123	
Hexachloro-1,3-butadiene	25.0	27.6	110	54.0-138	
2-Hexanone	125	135	108	67.0-149	
n-Hexane	25.0	29.1	116	57.0-133	
Iodomethane	125	125	99.9	33.0-147	
Isopropylbenzene	25.0	26.8	107	76.0-127	
p-Isopropyltoluene	25.0	27.3	109	76.0-125	
2-Butanone (MEK)	125	134	107	44.0-160	
Methylene Chloride	25.0	25.5	102	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	127	102	68.0-142	
Methyl tert-butyl ether	25.0	26.5	106	68.0-125	
Naphthalene	25.0	25.1	100	54.0-135	
n-Propylbenzene	25.0	25.8	103	77.0-124	
Styrene	25.0	27.1	108	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	27.4	110	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	26.1	104	65.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	24.4	97.5	69.0-132	
Tetrachloroethene	25.0	29.8	119	72.0-132	
Toluene	25.0	24.8	99.1	79.0-120	
1,2,3-Trichlorobenzene	25.0	25.3	101	50.0-138	
1,2,4-Trichlorobenzene	25.0	26.4	106	57.0-137	
1,1,1-Trichloroethane	25.0	26.9	108	73.0-124	
1,1,2-Trichloroethane	25.0	26.5	106	80.0-120	
Trichloroethene	25.0	24.2	96.8	78.0-124	
Trichlorofluoromethane	25.0	21.6	86.3	59.0-147	
1,2,3-Trichloropropane	25.0	25.8	103	73.0-130	
1,2,4-Trimethylbenzene	25.0	25.5	102	76.0-121	
1,2,3-Trimethylbenzene	25.0	25.3	101	77.0-120	
1,3,5-Trimethylbenzene	25.0	24.5	98.2	76.0-122	
Vinyl acetate	125	147	118	11.0-160	
Vinyl chloride	25.0	26.9	108	67.0-131	
Xylenes, Total	75.0	75.9	101	79.0-123	
(S) Toluene-d8			106	80.0-120	
(S) 4-Bromofluorobenzene			105	77.0-126	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3435471-2 07/25/19 10:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3435471-2 07/25/19 10:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	0.909		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	104			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3435471-1 07/25/19 09:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	125	135	108	19.0-160	
Acrylonitrile	125	141	113	55.0-149	
Benzene	25.0	24.9	99.6	70.0-123	
Bromobenzene	25.0	24.1	96.2	73.0-121	
Bromodichloromethane	25.0	26.1	105	75.0-120	
Bromochloromethane	25.0	26.5	106	76.0-122	
Bromoform	25.0	24.2	96.8	68.0-132	
Bromomethane	25.0	26.5	106	10.0-160	
n-Butylbenzene	25.0	28.1	112	73.0-125	
sec-Butylbenzene	25.0	27.0	108	75.0-125	
tert-Butylbenzene	25.0	27.1	108	76.0-124	
Carbon disulfide	25.0	25.7	103	61.0-128	
Carbon tetrachloride	25.0	29.5	118	68.0-126	
Chlorobenzene	25.0	25.5	102	80.0-121	
Chlorodibromomethane	25.0	27.3	109	77.0-125	
Chloroethane	25.0	25.9	103	47.0-150	
Chloroform	25.0	24.7	98.9	73.0-120	
Chloromethane	25.0	23.3	93.2	41.0-142	
2-Chlorotoluene	25.0	25.4	101	76.0-123	
4-Chlorotoluene	25.0	25.4	101	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	25.5	102	58.0-134	
1,2-Dibromoethane	25.0	26.5	106	80.0-122	
Dibromomethane	25.0	26.6	107	80.0-120	
1,2-Dichlorobenzene	25.0	25.4	101	79.0-121	
1,3-Dichlorobenzene	25.0	25.4	102	79.0-120	
1,4-Dichlorobenzene	25.0	24.9	99.4	79.0-120	
Dichlorodifluoromethane	25.0	25.3	101	51.0-149	
1,1-Dichloroethane	25.0	26.2	105	70.0-126	
1,2-Dichloroethane	25.0	25.7	103	70.0-128	
1,1-Dichloroethene	25.0	26.2	105	71.0-124	
cis-1,2-Dichloroethene	25.0	25.1	100	73.0-120	
trans-1,2-Dichloroethene	25.0	25.9	103	73.0-120	
1,2-Dichloropropane	25.0	25.7	103	77.0-125	
1,1-Dichloropropene	25.0	26.3	105	74.0-126	
1,3-Dichloropropane	25.0	25.9	104	80.0-120	
cis-1,3-Dichloropropene	25.0	27.0	108	80.0-123	
trans-1,3-Dichloropropene	25.0	26.3	105	78.0-124	
trans-1,4-Dichloro-2-butene	25.0	21.3	85.0	33.0-144	
2,2-Dichloropropane	25.0	27.5	110	58.0-130	
Di-isopropyl ether	25.0	25.8	103	58.0-138	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3435471-1 07/25/19 09:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	25.0	25.1	100	79.0-123	
Hexachloro-1,3-butadiene	25.0	27.9	112	54.0-138	
2-Hexanone	125	135	108	67.0-149	
n-Hexane	25.0	30.0	120	57.0-133	
Iodomethane	125	125	99.9	33.0-147	
Isopropylbenzene	25.0	26.6	106	76.0-127	
p-Isopropyltoluene	25.0	27.9	112	76.0-125	
2-Butanone (MEK)	125	131	105	44.0-160	
Methylene Chloride	25.0	26.5	106	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	125	100	68.0-142	
Methyl tert-butyl ether	25.0	26.3	105	68.0-125	
Naphthalene	25.0	25.9	103	54.0-135	
n-Propylbenzene	25.0	26.4	105	77.0-124	
Styrene	25.0	26.8	107	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	27.1	108	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	27.1	108	65.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	25.0	100	69.0-132	
Tetrachloroethene	25.0	27.3	109	72.0-132	
Toluene	25.0	24.4	97.6	79.0-120	
1,2,3-Trichlorobenzene	25.0	25.8	103	50.0-138	
1,2,4-Trichlorobenzene	25.0	26.7	107	57.0-137	
1,1,1-Trichloroethane	25.0	26.9	108	73.0-124	
1,1,2-Trichloroethane	25.0	25.8	103	80.0-120	
Trichloroethene	25.0	23.8	95.1	78.0-124	
Trichlorofluoromethane	25.0	21.5	86.0	59.0-147	
1,2,3-Trichloropropane	25.0	25.8	103	73.0-130	
1,2,4-Trimethylbenzene	25.0	25.7	103	76.0-121	
1,2,3-Trimethylbenzene	25.0	25.6	102	77.0-120	
1,3,5-Trimethylbenzene	25.0	24.9	99.6	76.0-122	
Vinyl acetate	125	149	119	11.0-160	
Vinyl chloride	25.0	27.0	108	67.0-131	
Xylenes, Total	75.0	74.9	99.9	79.0-123	
(S) Toluene-d8			105	80.0-120	
(S) 4-Bromofluorobenzene			104	77.0-126	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3435761-3 07/30/19 10:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
Vinyl chloride	U		0.118	0.500
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	103			77.0-126
(S) 1,2-Dichloroethane-d4	107			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435761-1 07/30/19 09:25 • (LCSD) R3435761-2 07/30/19 09:47

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	25.0	25.1	26.3	100	105	73.0-120			4.61	20
Tetrachloroethene	25.0	27.3	28.6	109	114	72.0-132			4.40	20
Trichloroethene	25.0	25.4	25.7	102	103	78.0-124			1.25	20
Vinyl chloride	25.0	28.5	29.1	114	117	67.0-131			2.07	20
(S) Toluene-d8				108	105	80.0-120				
(S) 4-Bromofluorobenzene				104	105	77.0-126				
(S) 1,2-Dichloroethane-d4				106	108	70.0-130				

6 Qc

7 Gl

8 Al

9 Sc





Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

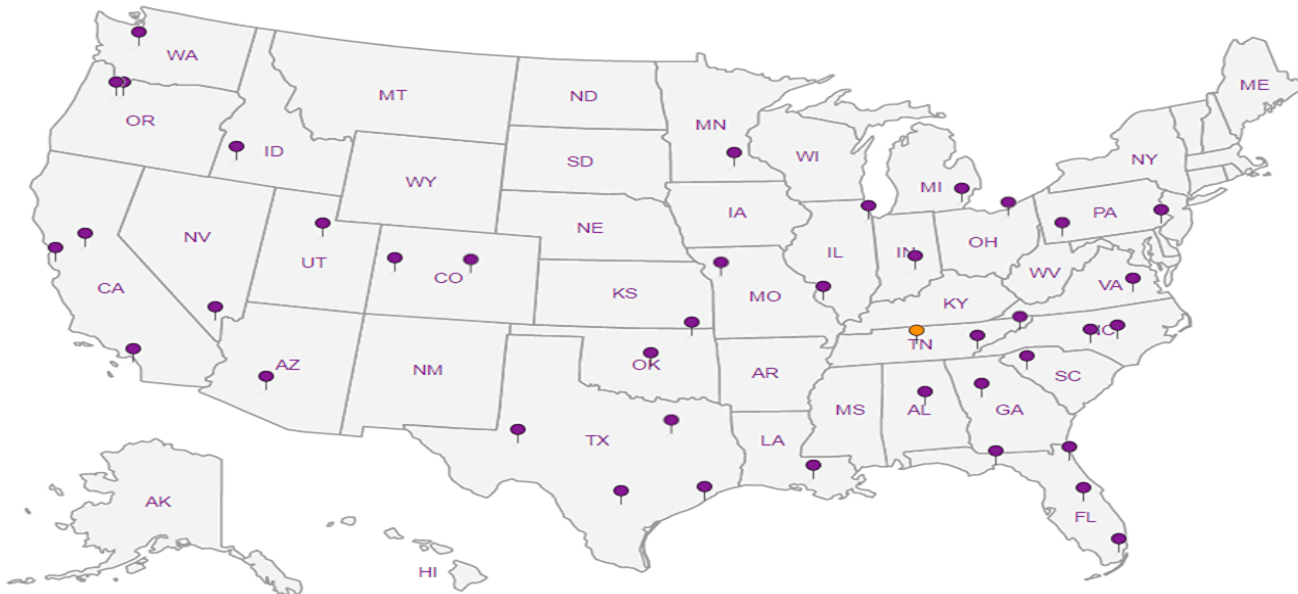
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**  
 1215 Fourth Ave., Suite 1350  
 Seattle, WA 98161

Billing Information:  
 Attn: Accounts Payable  
 1215 Fourth Ave., Ste. 1350  
 Seattle, WA 98161

Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: boneal@pesenv.com; **KVIK@PESENV.COM**  
 bhaldeman@pesenv.com; **KSPRINGSTEAD@PESENV.COM**

Project Description: **American Linen**

City/State Collected: **Seattle, WA**

Phone: **206-529-3980**  
 Fax: **206-529-3985**

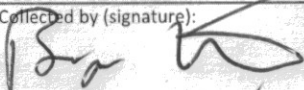
Client Project #  
**1413.001.05.601**

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
**Ben Hecht**

Site/Facility ID #  
**American Linen**

P.O. #

Collected by (signature):  
  
 Immediately Packed on Ice N  Y

**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

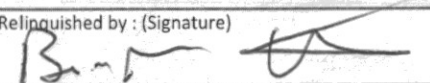
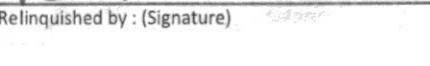
Quote #  
 Date Results Needed  
**STAT**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,CI, SO4* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCI	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3 22	VOCs 8260LLC 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-160-072319	Grab	GW	125	7/23/19	625	12	X	X	X	X	X	X	X		-01
W-MW-01-072319		GW	75	7/23/19	925	12	X	X	X	X	X	X	X		-02
MW-155-072319		GW	25	7/23/19	935	6			X				X		-03
W-MW-02		GW	75	7/23/19	1150	12	X	X	X	X	X	X	X		-04
TRIP-072319	-	GW	-	7/23/19	1325	1			X				X		-05
		GW													
		GW													
		GW													
		GW													
		GW													

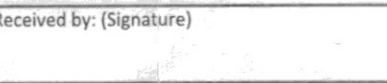
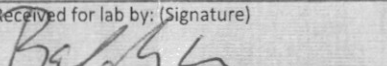
\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: \*Nitrate has a 48 hour holding time.  
**Tier QA/QC; Bill PES; Email OK**  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_  
 Samples returned via:  
 UPS  FedEx  Courier \_\_\_\_\_  
 Tracking # **1082 5988 5610**

**Sample Receipt Checklist**  
 COC Seal Present/Intact:  NP  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)  
  
 Relinquished by: (Signature)  


Date: **7-23-19**  
 Time: **1400**

Received by: (Signature)  
  
 Received for lab by: (Signature)  


Trip Blank Received:  Yes / No  
 HCL / MeOH TBR  
 Temp: **A36F** °C  
**3.7+13.8**  
 Bottles Received: **42**  
 Date: **7.24.19** Time: **845**

**RAD SCREEN: <0.5 mR/hr**  
 If preservation required by Login: Date/Time  
 Condition: NCF /  OK


Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_

Pres Chk

**Pace Analytical**  
 National Center for Testing & Innovation

12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



L# **L1121576**

Table # **D204**

Acctnum: **PESENVSWA**  
 Template: **T152679**  
 Prelogin: **P718645**  
 TSR: **110 - Brian Ford**  
 PB: **7-5-19 ES**

Shipped Via: **FedEX Ground**



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	182000		2710	20000	1	07/26/2019 20:29	<a href="#">WG1317887</a>

Sample Narrative:

L1121576-01 WG1317887: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	8280		51.9	1000	1	07/24/2019 15:35	<a href="#">WG1316545</a>
Nitrate	U		22.7	100	1	07/24/2019 15:35	<a href="#">WG1316545</a>
Sulfate	2640	J J	77.4	5000	1	07/24/2019 15:35	<a href="#">WG1316545</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1950	<del>B P1</del>	102	1000	1	07/25/2019 17:42	<a href="#">WG1317639</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2680		15.0	100	1	07/28/2019 19:27	<a href="#">WG1317876</a>
Manganese	408	<del>V</del>	0.250	5.00	1	07/28/2019 19:27	<a href="#">WG1317876</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 16:10	<a href="#">WG1318107</a>
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		07/26/2019 16:10	<a href="#">WG1318107</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	535		0.287	0.678	1	07/26/2019 12:43	<a href="#">WG1317907</a>
Ethane	U		0.296	1.29	1	07/26/2019 12:43	<a href="#">WG1317907</a>
Ethene	U		0.422	1.27	1	07/26/2019 12:43	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	1.98	U J	1.05	25.0	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Benzene	U		0.0896	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 14:58	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 14:58	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	07/25/2019 14:58	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 14:58	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 14:58	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 14:58	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 14:58	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 14:58	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 14:58	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 14:58	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 14:58	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 14:58	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 14:58	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 14:58	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 14:58	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 14:58	WG1317389
cis-1,2-Dichloroethene	0.217	J U	0.0933	0.500	1	07/30/2019 19:52	WG1319848
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 14:58	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 14:58	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 14:58	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 14:58	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 14:58	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 14:58	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 14:58	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 14:58	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 14:58	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 14:58	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 14:58	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 14:58	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 14:58	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 14:58	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 14:58	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 14:58	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 14:58	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 14:58	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 14:58	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 14:58	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 14:58	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 14:58	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 14:58	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 14:58	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 14:58	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 14:58	WG1317389
Tetrachloroethene	U		0.199	0.500	1	07/30/2019 19:52	WG1319848
Toluene	U		0.412	0.500	1	07/25/2019 14:58	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 14:58	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 14:58	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 14:58	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 14:58	WG1317389
Trichloroethene	U		0.153	0.500	1	07/30/2019 19:52	WG1319848
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/25/2019 14:58	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 14:58	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 14:58	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 14:58	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 14:58	WG1317389

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/7/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 14:58	<a href="#">WG1317389</a>
Vinyl chloride	0.326	J ↓	0.118	0.500	1	07/30/2019 19:52	<a href="#">WG1319848</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 14:58	<a href="#">WG1317389</a>
(S) Toluene-d8	107			80.0-120		07/25/2019 14:58	<a href="#">WG1317389</a>
(S) Toluene-d8	107			80.0-120		07/30/2019 19:52	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/25/2019 14:58	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/30/2019 19:52	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/25/2019 14:58	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/30/2019 19:52	<a href="#">WG1319848</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/7/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	242000		2710	20000	1	07/26/2019 20:43	<a href="#">WG1317887</a>

Sample Narrative:

L1121576-02 WG1317887: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	33200		51.9	1000	1	07/24/2019 15:51	<a href="#">WG1316545</a>
Nitrate	U		22.7	100	1	07/24/2019 15:51	<a href="#">WG1316545</a>
Sulfate	78900		77.4	5000	1	07/24/2019 15:51	<a href="#">WG1316545</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2730		102	1000	1	07/25/2019 18:17	<a href="#">WG1317639</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	614		15.0	100	1	07/28/2019 19:50	<a href="#">WG1317876</a>
Manganese	323		0.250	5.00	1	07/28/2019 19:50	<a href="#">WG1317876</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 16:34	<a href="#">WG1318107</a>
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		07/26/2019 16:34	<a href="#">WG1318107</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	327		0.287	0.678	1	07/26/2019 12:54	<a href="#">WG1317907</a>
Ethane	3.96		0.296	1.29	1	07/26/2019 12:54	<a href="#">WG1317907</a>
Ethene	7.04		0.422	1.27	1	07/26/2019 12:54	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Benzene	U		0.0896	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 15:20	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	07/25/2019 15:20	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 15:20	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 15:20	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 15:20	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 15:20	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 15:20	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 15:20	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 15:20	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 15:20	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 15:20	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 15:20	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 15:20	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 15:20	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 15:20	WG1317389
cis-1,2-Dichloroethene	0.547		0.0933	0.500	1	07/30/2019 20:14	WG1319848
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 15:20	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 15:20	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 15:20	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 15:20	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 15:20	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 15:20	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 15:20	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 15:20	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 15:20	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 15:20	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 15:20	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 15:20	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 15:20	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 15:20	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 15:20	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 15:20	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 15:20	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 15:20	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 15:20	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 15:20	WG1317389
Naphthalene	0.211	J U	0.174	2.50	1	07/25/2019 15:20	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 15:20	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 15:20	WG1317389
1,1,1-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 15:20	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 15:20	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 15:20	WG1317389
Tetrachloroethene	U		0.199	0.500	1	07/30/2019 20:14	WG1319848
Toluene	U		0.412	0.500	1	07/25/2019 15:20	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 15:20	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 15:20	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 15:20	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 15:20	WG1317389
Trichloroethene	0.304	J U	0.153	0.500	1	07/30/2019 20:14	WG1319848
Trichlorofluoromethane	U	UJ UO	0.130	2.50	1	07/25/2019 15:20	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 15:20	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 15:20	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 15:20	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 15:20	WG1317389

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

JC 8/7/19





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Vinyl chloride	9.00		0.118	0.500	1	07/25/2019 15:20	<a href="#">WG1317389</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 15:20	<a href="#">WG1317389</a>
(S) Toluene-d8	106			80.0-120		07/25/2019 15:20	<a href="#">WG1317389</a>
(S) Toluene-d8	108			80.0-120		07/30/2019 20:14	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/25/2019 15:20	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/30/2019 20:14	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/25/2019 15:20	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/30/2019 20:14	<a href="#">WG1319848</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/7/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 16:58	<a href="#">WG1318107</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/26/2019 16:58	<a href="#">WG1318107</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.69	U	1.05	25.0	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Benzene	U		0.0896	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Chlorobenzene	U		0.140	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Chloroethane	U		0.141	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Chloroform	U		0.0860	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Chloromethane	U		0.153	1.25	1	07/25/2019 15:41	<a href="#">WG1317389</a>
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Dibromomethane	U		0.117	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
cis-1,2-Dichloroethene	12.1		0.0933	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Ethylbenzene	U		0.158	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
2-Hexanone	U		0.757	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
n-Hexane	U		0.305	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Iodomethane	U		0.377	10.0	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>

JC 8/7/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Naphthalene	U		0.174	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Styrene	U		0.117	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Tetrachloroethene	92.7		0.199	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Toluene	U		0.412	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Trichloroethene	19.9		0.153	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Vinyl acetate	U		0.645	5.00	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Vinyl chloride	0.350	J U	0.118	0.500	1	07/25/2019 15:41	<a href="#">WG1317389</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 15:41	<a href="#">WG1317389</a>
(S) Toluene-d8	107			80.0-120		07/25/2019 15:41	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/25/2019 15:41	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/25/2019 15:41	<a href="#">WG1317389</a>

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

JC 8/7/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	965000		2710	20000	1	07/26/2019 20:50	<a href="#">WG1317887</a>

Sample Narrative:

L1121576-04 WG1317887: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	98400		51.9	1000	1	07/24/2019 16:08	<a href="#">WG1316545</a>
Nitrate	U		22.7	100	1	07/24/2019 16:08	<a href="#">WG1316545</a>
Sulfate	3240	J	77.4	5000	1	07/24/2019 16:08	<a href="#">WG1316545</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	43400		102	1000	1	07/25/2019 18:33	<a href="#">WG1317639</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	13600		15.0	100	1	07/28/2019 19:54	<a href="#">WG1317876</a>
Manganese	3470		0.250	5.00	1	07/28/2019 19:54	<a href="#">WG1317876</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/26/2019 17:22	<a href="#">WG1318107</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/26/2019 17:22	<a href="#">WG1318107</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	25700		2.87	6.78	10	07/26/2019 15:08	<a href="#">WG1318268</a>
Ethane	U		0.296	1.29	1	07/26/2019 12:57	<a href="#">WG1317907</a>
Ethene	15.0		0.422	1.27	1	07/26/2019 12:57	<a href="#">WG1317907</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Benzene	U		0.0896	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Bromoform	U		0.186	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 16:03	<a href="#">WG1317389</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	07/25/2019 16:03	WG1317389
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 16:03	WG1317389
Chloroethane	U		0.141	2.50	1	07/25/2019 16:03	WG1317389
Chloroform	U		0.0860	0.500	1	07/25/2019 16:03	WG1317389
Chloromethane	U		0.153	1.25	1	07/25/2019 16:03	WG1317389
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 16:03	WG1317389
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 16:03	WG1317389
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 16:03	WG1317389
Dibromomethane	U		0.117	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 16:03	WG1317389
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 16:03	WG1317389
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 16:03	WG1317389
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 16:03	WG1317389
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 16:03	WG1317389
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 16:03	WG1317389
cis-1,2-Dichloroethene	3.30		0.0933	0.500	1	07/30/2019 20:36	WG1319848
trans-1,2-Dichloroethene	0.386	J U	0.152	0.500	1	07/25/2019 16:03	WG1317389
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 16:03	WG1317389
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 16:03	WG1317389
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 16:03	WG1317389
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 16:03	WG1317389
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 16:03	WG1317389
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 16:03	WG1317389
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 16:03	WG1317389
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 16:03	WG1317389
Ethylbenzene	U		0.158	0.500	1	07/25/2019 16:03	WG1317389
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 16:03	WG1317389
2-Hexanone	U		0.757	5.00	1	07/25/2019 16:03	WG1317389
n-Hexane	U		0.305	5.00	1	07/25/2019 16:03	WG1317389
Iodomethane	U		0.377	10.0	1	07/25/2019 16:03	WG1317389
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 16:03	WG1317389
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 16:03	WG1317389
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 16:03	WG1317389
Methylene Chloride	U		1.07	2.50	1	07/25/2019 16:03	WG1317389
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 16:03	WG1317389
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 16:03	WG1317389
Naphthalene	U		0.174	2.50	1	07/25/2019 16:03	WG1317389
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 16:03	WG1317389
Styrene	U		0.117	0.500	1	07/25/2019 16:03	WG1317389
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 16:03	WG1317389
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 16:03	WG1317389
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 16:03	WG1317389
Tetrachloroethene	U		0.199	0.500	1	07/30/2019 20:36	WG1319848
Toluene	1.35		0.412	0.500	1	07/25/2019 16:03	WG1317389
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 16:03	WG1317389
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 16:03	WG1317389
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 16:03	WG1317389
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 16:03	WG1317389
Trichloroethene	U		0.153	0.500	1	07/30/2019 20:36	WG1319848
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	07/25/2019 16:03	WG1317389
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 16:03	WG1317389
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 16:03	WG1317389
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 16:03	WG1317389
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 16:03	WG1317389

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/7/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Vinyl chloride	6.79		0.118	0.500	1	07/25/2019 16:03	<a href="#">WG1317389</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 16:03	<a href="#">WG1317389</a>
(S) Toluene-d8	109			80.0-120		07/25/2019 16:03	<a href="#">WG1317389</a>
(S) Toluene-d8	108			80.0-120		07/30/2019 20:36	<a href="#">WG1319848</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/25/2019 16:03	<a href="#">WG1317389</a>
(S) 4-Bromofluorobenzene	99.2			77.0-126		07/30/2019 20:36	<a href="#">WG1319848</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/25/2019 16:03	<a href="#">WG1317389</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/30/2019 20:36	<a href="#">WG1319848</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/7/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/27/2019 11:30	<a href="#">WG1318530</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/27/2019 11:30	<a href="#">WG1318530</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.73	J	1.05	25.0	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Acrylonitrile	U		0.873	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Benzene	U		0.0896	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Bromobenzene	U		0.133	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Bromodichloromethane	U		0.0800	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Bromochloromethane	U		0.145	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Bromoform	U		0.186	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Bromomethane	U		0.157	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
n-Butylbenzene	U		0.143	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
sec-Butylbenzene	U		0.134	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
tert-Butylbenzene	U		0.183	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Carbon disulfide	U		0.101	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Carbon tetrachloride	U		0.159	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Chlorobenzene	U		0.140	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Chlorodibromomethane	U		0.128	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Chloroethane	U		0.141	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Chloroform	U		0.0860	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Chloromethane	U		0.153	1.25	1	07/25/2019 00:27	<a href="#">WG1317007</a>
2-Chlorotoluene	U		0.111	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Dibromomethane	U		0.117	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Ethylbenzene	U		0.158	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
2-Hexanone	U		0.757	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
n-Hexane	U		0.305	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Iodomethane	U		0.377	10.0	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Isopropylbenzene	U		0.126	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Naphthalene	U		0.174	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
n-Propylbenzene	U		0.162	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Styrene	U		0.117	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Tetrachloroethene	1.03	<u>B</u>	0.199	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Toluene	U		0.412	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Trichloroethene	U		0.153	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Vinyl acetate	U		0.645	5.00	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Vinyl chloride	U		0.118	0.500	1	07/25/2019 00:27	<a href="#">WG1317007</a>
Xylenes, Total	U		0.316	1.50	1	07/25/2019 00:27	<a href="#">WG1317007</a>
(S) Toluene-d8	107			80.0-120		07/25/2019 00:27	<a href="#">WG1317007</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/25/2019 00:27	<a href="#">WG1317007</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/25/2019 00:27	<a href="#">WG1317007</a>

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

Sample Narrative:

L1121576-05 WG1317007: PCE detection is likely from instrument contamination/carryover, no sample remaining for re-analysis



July 26, 2019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## PES Environmental, Inc.- WA

Sample Delivery Group: L1121848  
Samples Received: 07/24/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: 1413.001.05.601  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:

*Brian Ford*

Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



<b>Cp: Cover Page</b>	<b>1</b>	<b><sup>1</sup>Cp</b>
<b>Tc: Table of Contents</b>	<b>2</b>	<b><sup>2</sup>Tc</b>
<b>Ss: Sample Summary</b>	<b>3</b>	<b><sup>3</sup>Ss</b>
<b>Cn: Case Narrative</b>	<b>4</b>	<b><sup>4</sup>Cn</b>
<b>Sr: Sample Results</b>	<b>5</b>	<b><sup>5</sup>Sr</b>
SV-02-071919 L1121848-01	<b>5</b>	
SV-01-071919 L1121848-02	<b>7</b>	
SV-01-071919-D L1121848-03	<b>9</b>	
<b>Qc: Quality Control Summary</b>	<b>11</b>	<b><sup>6</sup>Qc</b>
Volatile Organic Compounds (MS) by Method TO-15	<b>11</b>	
<b>Gl: Glossary of Terms</b>	<b>15</b>	<b><sup>7</sup>Gl</b>
<b>Al: Accreditations &amp; Locations</b>	<b>16</b>	<b><sup>8</sup>Al</b>
<b>Sc: Sample Chain of Custody</b>	<b>17</b>	<b><sup>9</sup>Sc</b>

# SAMPLE SUMMARY



## SV-02-071919 L1121848-01 Air

Collected by Shannon McKernan    Collected date/time 07/19/19 09:35    Received date/time 07/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1317302	2	07/25/19 11:09	07/25/19 11:09	AMC	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

## SV-01-071919 L1121848-02 Air

Collected by Shannon McKernan    Collected date/time 07/19/19 10:42    Received date/time 07/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1317302	2	07/25/19 13:17	07/25/19 13:17	AMC	Mt. Juliet, TN

<sup>4</sup> Cn

<sup>5</sup> Sr

## SV-01-071919-D L1121848-03 Air

Collected by Shannon McKernan    Collected date/time 07/19/19 10:42    Received date/time 07/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1317302	2	07/25/19 14:00	07/25/19 14:00	AMC	Mt. Juliet, TN

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

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



## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	47.8	114		2	WG1317302
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1317302
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1317302
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1317302
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1317302
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1317302
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1317302
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1317302
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1317302
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1317302
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1317302
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1317302
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1317302
Chloromethane	74-87-3	50.50	0.400	0.826	0.913	1.89		2	WG1317302
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1317302
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1317302
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1317302
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1317302
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1317302
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1317302
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1317302
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1317302
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1317302
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1317302
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1317302
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1317302
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1317302
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1317302
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1317302
1,4-Dioxane	123-91-1	88.10	0.400	1.44	1.81	6.52		2	WG1317302
Ethanol	64-17-5	46.10	1.26	2.38	5.87	11.1		2	WG1317302
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1317302
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1317302
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	0.557	3.13		2	WG1317302
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.576	2.85		2	WG1317302
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1317302
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1317302
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1317302
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1317302
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1317302
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1317302
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1317302
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1317302
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	4.14	12.2		2	WG1317302
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1317302
Methyl methacrylate	80-62-6	100.12	0.400	1.64	0.636	2.60		2	WG1317302
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1317302
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1317302
2-Propanol	67-63-0	60.10	2.50	6.15	20.7	50.8		2	WG1317302
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1317302
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1317302
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1317302
Tetrachloroethylene	127-18-4	166	0.400	2.72	4.62	31.3		2	WG1317302
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	1.72	5.06		2	WG1317302
Toluene	108-88-3	92.10	0.400	1.51	0.776	2.92	B	2	WG1317302
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1317302

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	0.489	2.66		2	<a href="#">WG1317302</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1317302</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1317302</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1317302</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1317302</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1317302</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1317302</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1317302</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1317302</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.5				<a href="#">WG1317302</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/19/19 10:42

L1121848

## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	7.49	17.8		2	WG1317302
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1317302
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1317302
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1317302
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1317302
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1317302
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1317302
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1317302
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1317302
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1317302
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1317302
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1317302
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1317302
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1317302
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1317302
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1317302
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1317302
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1317302
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1317302
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1317302
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1317302
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1317302
1,1-Dichloroethane	75-34-3	98	0.400	1.60	0.755	3.03		2	WG1317302
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1317302
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1317302
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1317302
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1317302
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1317302
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1317302
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1317302
Ethanol	64-17-5	46.10	1.26	2.38	5.29	9.97		2	WG1317302
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1317302
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1317302
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1317302
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.441	2.18		2	WG1317302
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1317302
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1317302
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1317302
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1317302
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1317302
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1317302
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.548	1.90	B	2	WG1317302
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1317302
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1317302
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1317302
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1317302
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1317302
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1317302
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1317302
Propene	115-07-1	42.10	0.800	1.38	0.800	1.38	B	2	WG1317302
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1317302
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1317302
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1317302
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1317302
Toluene	108-88-3	92.10	0.400	1.51	0.547	2.06	B	2	WG1317302
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1317302

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	9.17	49.9		2	<a href="#">WG1317302</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1317302</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1317302</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1317302</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1317302</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1317302</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1317302</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1317302</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1317302</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.2				<a href="#">WG1317302</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 07/19/19 10:42

L1121848

## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	3.39	8.07		2	WG1317302
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1317302
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1317302
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1317302
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1317302
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1317302
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1317302
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1317302
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1317302
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1317302
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1317302
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1317302
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1317302
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1317302
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1317302
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1317302
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1317302
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1317302
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1317302
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1317302
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1317302
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1317302
1,1-Dichloroethane	75-34-3	98	0.400	1.60	0.891	3.57		2	WG1317302
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1317302
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1317302
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1317302
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1317302
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1317302
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1317302
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1317302
Ethanol	64-17-5	46.10	1.26	2.38	3.61	6.80		2	WG1317302
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1317302
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1317302
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1317302
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.410	2.03		2	WG1317302
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1317302
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1317302
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1317302
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1317302
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1317302
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1317302
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1317302
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1317302
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1317302
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1317302
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1317302
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1317302
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1317302
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1317302
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1317302
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1317302
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1317302
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1317302
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1317302
Toluene	108-88-3	92.10	0.400	1.51	ND	ND		2	WG1317302
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1317302

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	10.7	58.3		2	<a href="#">WG1317302</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1317302</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1317302</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1317302</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1317302</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1317302</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1317302</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1317302</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1317302</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.0				<a href="#">WG1317302</a>

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



Method Blank (MB)

(MB) R3434497-3 07/25/19 10:26

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	0.0636	U	0.0569	1.25
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	0.126	U	0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	0.0807	U	0.0603	0.200
1,3-Dichlorobenzene	0.111	U	0.0597	0.200
1,4-Dichlorobenzene	0.143	U	0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
4-Ethyltoluene	U		0.0666	0.200
Ethylbenzene	U		0.0506	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	U		0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3434497-3 07/25/19 10:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Methylene Chloride	0.0698	U	0.0465	0.200
Methyl Butyl Ketone	U		0.0682	1.25
2-Butanone (MEK)	U		0.0493	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
Methyl Methacrylate	U		0.0773	0.200
MTBE	U		0.0505	0.200
Naphthalene	0.180	U	0.154	0.630
2-Propanol	U		0.0882	1.25
Propene	0.139	U	0.0932	0.400
Styrene	U		0.0465	0.200
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrachloroethylene	U		0.0497	0.200
Tetrahydrofuran	U		0.0508	0.200
1,2,4-Trichlorobenzene	0.202	U	0.148	0.630
Toluene	0.0733	U	0.0499	0.200
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
Trichloroethylene	U		0.0545	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
2,2,4-Trimethylpentane	U		0.0456	0.200
Vinyl chloride	U		0.0457	0.200
Vinyl Bromide	U		0.0727	0.200
Vinyl acetate	U		0.0639	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
Ethanol	0.118	U	0.0832	0.630
(S) 1,4-Bromofluorobenzene	97.0			60.0-140

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434497-1 07/25/19 08:58 • (LCSD) R3434497-2 07/25/19 09:41

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Ethanol	3.75	4.26	4.13	114	110	55.0-148			3.14	25
Propene	3.75	4.01	4.18	107	112	64.0-144			4.10	25
Dichlorodifluoromethane	3.75	4.51	4.65	120	124	64.0-139			3.10	25
1,2-Dichlorotetrafluoroethane	3.75	4.51	4.68	120	125	70.0-130			3.56	25
Chloromethane	3.75	4.59	4.75	122	127	70.0-130			3.53	25



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434497-1 07/25/19 08:58 • (LCSD) R3434497-2 07/25/19 09:41

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Vinyl chloride	3.75	4.52	4.70	121	125	70.0-130			3.96	25
1,3-Butadiene	3.75	4.56	4.57	122	122	70.0-130			0.263	25
Bromomethane	3.75	4.56	4.77	122	127	70.0-130			4.48	25
Chloroethane	3.75	4.49	4.75	120	127	70.0-130			5.61	25
Trichlorofluoromethane	3.75	4.51	4.66	120	124	70.0-130			3.18	25
1,1,2-Trichlorotrifluoroethane	3.75	4.55	4.65	121	124	70.0-130			2.28	25
1,1-Dichloroethene	3.75	4.47	4.61	119	123	70.0-130			3.18	25
MTBE	3.75	4.46	4.51	119	120	70.0-130			1.18	25
1,1-Dichloroethane	3.75	4.61	4.67	123	125	70.0-130			1.47	25
Acetone	3.75	4.47	4.48	119	119	70.0-130			0.252	25
2-Propanol	3.75	4.67	4.61	125	123	70.0-139			1.32	25
Carbon disulfide	3.75	4.58	4.71	122	126	70.0-130			2.74	25
Methylene Chloride	3.75	4.33	4.40	115	117	70.0-130			1.69	25
trans-1,2-Dichloroethene	3.75	4.59	4.58	123	122	70.0-130			0.359	25
n-Hexane	3.75	4.58	4.65	122	124	70.0-130			1.51	25
Vinyl acetate	3.75	3.98	3.96	106	106	70.0-130			0.604	25
Methyl Ethyl Ketone	3.75	4.66	4.66	124	124	70.0-130			0.0105	25
Benzene	3.75	4.59	4.55	122	121	70.0-130			0.960	25
cis-1,2-Dichloroethene	3.75	4.60	4.67	123	124	70.0-130			1.42	25
Chloroform	3.75	4.56	4.60	122	123	70.0-130			0.816	25
Cyclohexane	3.75	4.65	4.68	124	125	70.0-130			0.670	25
1,1,1-Trichloroethane	3.75	4.57	4.64	122	124	70.0-130			1.38	25
Carbon tetrachloride	3.75	4.57	4.61	122	123	70.0-130			0.901	25
1,2-Dichloroethane	3.75	4.62	4.54	123	121	70.0-130			1.62	25
Heptane	3.75	4.65	4.66	124	124	70.0-130			0.229	25
Toluene	3.75	4.49	4.42	120	118	70.0-130			1.62	25
Trichloroethylene	3.75	4.74	4.71	126	126	70.0-130			0.520	25
1,2-Dichloropropane	3.75	4.62	4.61	123	123	70.0-130			0.312	25
1,4-Dioxane	3.75	4.60	4.51	123	120	70.0-140			2.02	25
Bromodichloromethane	3.75	4.62	4.57	123	122	70.0-130			1.08	25
cis-1,3-Dichloropropene	3.75	4.61	4.49	123	120	70.0-130			2.61	25
4-Methyl-2-pentanone (MIBK)	3.75	4.66	4.54	124	121	70.0-139			2.55	25
trans-1,3-Dichloropropene	3.75	4.55	4.42	121	118	70.0-130			2.82	25
1,1,2-Trichloroethane	3.75	4.59	4.51	122	120	70.0-130			1.77	25
Ethylbenzene	3.75	4.57	4.51	122	120	70.0-130			1.45	25
m&p-Xylene	7.50	9.18	9.08	122	121	70.0-130			1.03	25
Tetrachloroethylene	3.75	4.41	4.28	118	114	70.0-130			2.90	25
Methyl Butyl Ketone	3.75	4.67	4.59	125	122	70.0-149			1.88	25
o-Xylene	3.75	4.57	4.48	122	119	70.0-130			1.97	25
Dibromochloromethane	3.75	4.62	4.48	123	120	70.0-130			2.92	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434497-1 07/25/19 08:58 • (LCSD) R3434497-2 07/25/19 09:41

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
1,2-Dibromoethane	3.75	4.65	4.56	124	122	70.0-130			1.80	25
Chlorobenzene	3.75	4.60	4.44	123	118	70.0-130			3.39	25
Styrene	3.75	4.65	4.57	124	122	70.0-130			1.62	25
Bromoform	3.75	4.68	4.61	125	123	70.0-130			1.50	25
1,1,2,2-Tetrachloroethane	3.75	4.38	4.31	117	115	70.0-130			1.73	25
4-Ethyltoluene	3.75	4.62	4.53	123	121	70.0-130			1.84	25
1,3,5-Trimethylbenzene	3.75	4.59	4.50	122	120	70.0-130			2.03	25
1,2,4-Trimethylbenzene	3.75	4.51	4.46	120	119	70.0-130			1.08	25
1,3-Dichlorobenzene	3.75	4.57	4.60	122	123	70.0-130			0.602	25
1,4-Dichlorobenzene	3.75	4.67	4.67	125	125	70.0-130			0.0779	25
Benzyl Chloride	3.75	4.84	4.79	129	128	70.0-152			1.18	25
1,2-Dichlorobenzene	3.75	4.51	4.47	120	119	70.0-130			0.819	25
1,2,4-Trichlorobenzene	3.75	5.18	5.19	138	138	70.0-160			0.116	25
Hexachloro-1,3-butadiene	3.75	4.73	4.65	126	124	70.0-151			1.63	25
Naphthalene	3.75	5.10	5.04	136	134	70.0-159			1.34	25
Allyl Chloride	3.75	4.71	4.61	126	123	70.0-130			2.13	25
2-Chlorotoluene	3.75	4.60	4.47	123	119	70.0-130			2.76	25
Methyl Methacrylate	3.75	4.66	4.58	124	122	70.0-130			1.71	25
Tetrahydrofuran	3.75	4.67	4.59	125	122	70.0-137			1.74	25
2,2,4-Trimethylpentane	3.75	4.63	4.65	124	124	70.0-130			0.434	25
Vinyl Bromide	3.75	4.51	4.62	120	123	70.0-130			2.39	25
Isopropylbenzene	3.75	4.50	4.50	120	120	70.0-130			0.0736	25
<i>(S) 1,4-Bromofluorobenzene</i>				98.9	98.9	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.





Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

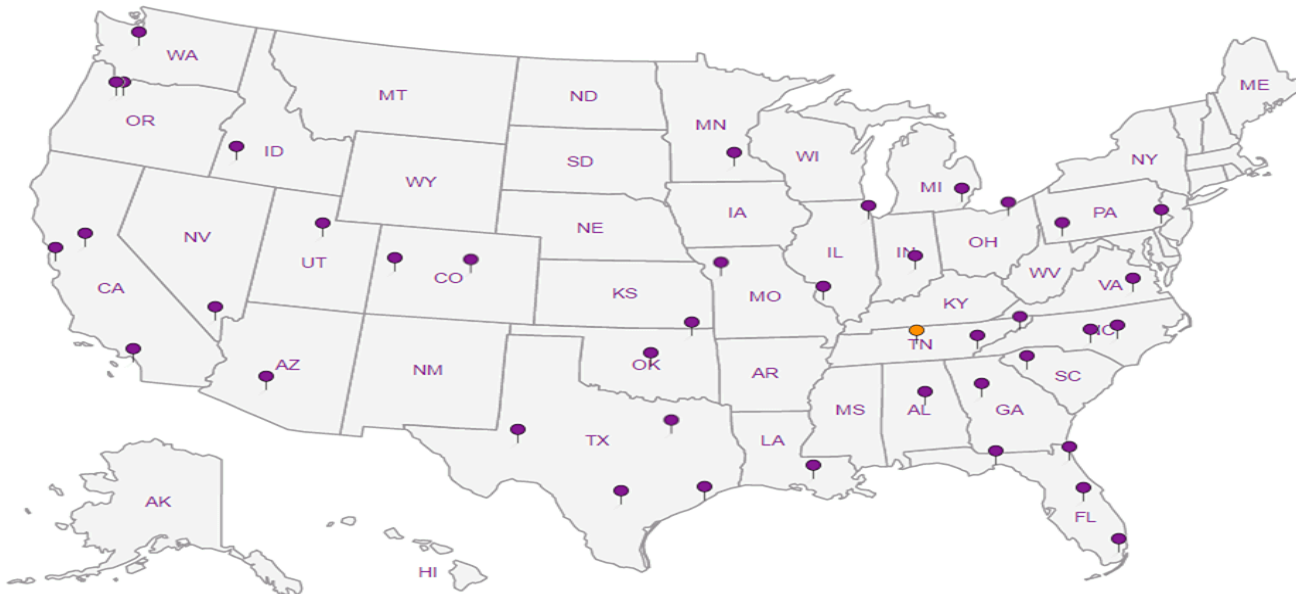
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**PES Environmental, Inc. - WA**  
 1215 Fourth Ave., Suite 1350  
 Seattle, WA 98161

Billing Information:  
**Attn: Accounts Payable**  
 1215 Fourth Ave., Ste. 1350  
 Seattle, WA 98161

Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: [boneal@pesenv.com](mailto:boneal@pesenv.com);  
[bhaldeman@pesenv.com](mailto:bhaldeman@pesenv.com);

Project Description: **AMERICAN LINEN**

City/State Collected: **SEATTLE, WA**

Phone: **206-529-3980**  
 Fax: **206-529-3985**

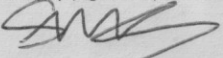
Client Project #  
**1413-001-05-601**

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
**SHANNON MCKERNAN**

Site/Facility ID #  
**1413-001-05-601**

P.O. #

Collected by (signature):  
  
 Immediately Packed on Ice N  Y

**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #  
 Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
SV-02-071919	GRAB	Air	12	7/19/19	0935	1
SV-01-071919	↓	Air	↓	↓	1042	1
SV-01-071919-D	↓	Air	↓	↓	1042	1
		Air				
		Air				
		Air				
		Air				

Analysis / Container / Preservative									

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859

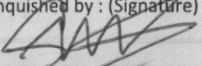


L# **1121848**  
**M119**  
 Account: **PESENVSWA**  
 Template: **T152986**  
 Prelogin: **P719496**  
 TSR: **110 - Brian Ford**  
 PB: **BF 7/18/19**  
 Shipped Via: **FedEX Ground**

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other \_\_\_\_\_

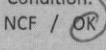
Remarks:  
 Samples returned via:  
 UPS  FedEx  Courier \_\_\_\_\_  
 Tracking # **4794 8846 2426**

Sample Receipt Checklist	
COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature)  
  
 Relinquished by: (Signature)  
 Relinquished by: (Signature)

Date: **7/22/19**  
 Time: **1500**

Received by: (Signature)  
 Trip Blank Received: Yes/No  
 Yes  No  
 HCL / MeOH  
 TBR  
 Temp: **Amb** °C  
 Bottles Received: **3**  
 Received for lab by: (Signature)  
 Date: **7/24/19** Time: **0845**

If preservation required by Login: Date/Time  
 Hold:  
 Condition:  
 NCF / 



Collected date/time: 07/19/19 09:35

L1121848

## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
			ppbv	ug/m3	ppbv	ug/m3			
Acetone	67-64-1	58.10	2.50	5.94	47.8	114		2	WG1317302
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1317302
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1317302
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1317302
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1317302
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1317302
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1317302
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1317302
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1317302
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1317302
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1317302
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1317302
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1317302
Chloromethane	74-87-3	50.50	0.400	0.826	0.913	1.89		2	WG1317302
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1317302
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1317302
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1317302
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1317302
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1317302
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1317302
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1317302
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1317302
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1317302
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1317302
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1317302
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1317302
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1317302
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1317302
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1317302
1,4-Dioxane	123-91-1	88.10	0.400	1.44	1.81	6.52		2	WG1317302
Ethanol	64-17-5	46.10	1.26	2.38	5.87	11.1		2	WG1317302
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1317302
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1317302
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	0.557	3.13		2	WG1317302
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.576	2.85		2	WG1317302
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1317302
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1317302
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1317302
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1317302
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1317302
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1317302
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1317302
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1317302
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	4.14	12.2		2	WG1317302
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1317302
Methyl methacrylate	80-62-6	100.12	0.400	1.64	0.636	2.60		2	WG1317302
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1317302
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1317302
2-Propanol	67-63-0	60.10	2.50	6.15	20.7	50.8		2	WG1317302
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1317302
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1317302
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1317302
Tetrachloroethylene	127-18-4	166	0.400	2.72	4.62	31.3		2	WG1317302
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	1.72	5.06		2	WG1317302
Toluene	108-88-3	92.10	0.400	1.51	0.776	2.92	B	2	WG1317302
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1317302

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/7/19

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.601

SDG:

L1121848

DATE/TIME:

07/26/19 09:11

PAGE:

5 of 17



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	0.489	2.66		2	<a href="#">WG1317302</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1317302</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1317302</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1317302</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1317302</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1317302</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1317302</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1317302</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1317302</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.5				<a href="#">WG1317302</a>

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

JC 8/7/19



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
			ppbv	ug/m3	ppbv	ug/m3			
Acetone	67-64-1	58.10	2.50	5.94	7.49	17.8	J	2	WG1317302
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1317302
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1317302
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1317302
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1317302
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1317302
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1317302
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1317302
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1317302
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1317302
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1317302
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1317302
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1317302
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1317302
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1317302
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1317302
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1317302
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1317302
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1317302
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1317302
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1317302
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1317302
1,1-Dichloroethane	75-34-3	98	0.400	1.60	0.755	3.03		2	WG1317302
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1317302
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1317302
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1317302
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1317302
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1317302
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1317302
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1317302
Ethanol	64-17-5	46.10	1.26	2.38	5.29	9.97		2	WG1317302
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1317302
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1317302
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1317302
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.441	2.18		2	WG1317302
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1317302
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1317302
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1317302
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1317302
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1317302
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1317302
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.548	1.90	J +	2	WG1317302
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1317302
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1317302
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1317302
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1317302
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1317302
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1317302
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1317302
Propene	115-07-1	42.10	0.800	1.38	0.800	1.38	J +	2	WG1317302
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1317302
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1317302
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1317302
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1317302
Toluene	108-88-3	92.10	0.400	1.51	0.547	2.06	J +	2	WG1317302
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1317302

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	9.17	49.9		2	<a href="#">WG1317302</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1317302</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1317302</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1317302</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1317302</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1317302</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1317302</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1317302</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1317302</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.2				<a href="#">WG1317302</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/7/19



Collected date/time: 07/19/19 10:42

L1121848

## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	3.39 J	8.07 J		2	WG1317302
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1317302
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1317302
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1317302
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1317302
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1317302
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1317302
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1317302
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1317302
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1317302
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1317302
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1317302
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1317302
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1317302
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1317302
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1317302
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1317302
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1317302
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1317302
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1317302
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1317302
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1317302
1,1-Dichloroethane	75-34-3	98	0.400	1.60	0.891	3.57		2	WG1317302
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1317302
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1317302
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1317302
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1317302
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1317302
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1317302
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1317302
Ethanol	64-17-5	46.10	1.26	2.38	3.61	6.80		2	WG1317302
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1317302
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1317302
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1317302
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.410	2.03		2	WG1317302
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1317302
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1317302
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1317302
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1317302
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1317302
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1317302
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1317302
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1317302
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1317302
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1317302
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1317302
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1317302
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1317302
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1317302
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1317302
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1317302
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1317302
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1317302
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1317302
Toluene	108-88-3	92.10	0.400	1.51	ND	ND		2	WG1317302
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1317302

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/7/19

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.601

SDG:

L1121848

DATE/TIME:

07/26/19 09:11

PAGE:

9 of 17



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	10.7	58.3		2	<a href="#">WG1317302</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1317302</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1317302</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1317302</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1317302</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1317302</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1317302</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1317302</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1317302</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1317302</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.0				<a href="#">WG1317302</a>

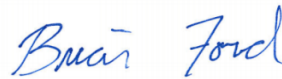
- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 8/7/19

## PES Environmental, Inc.- WA

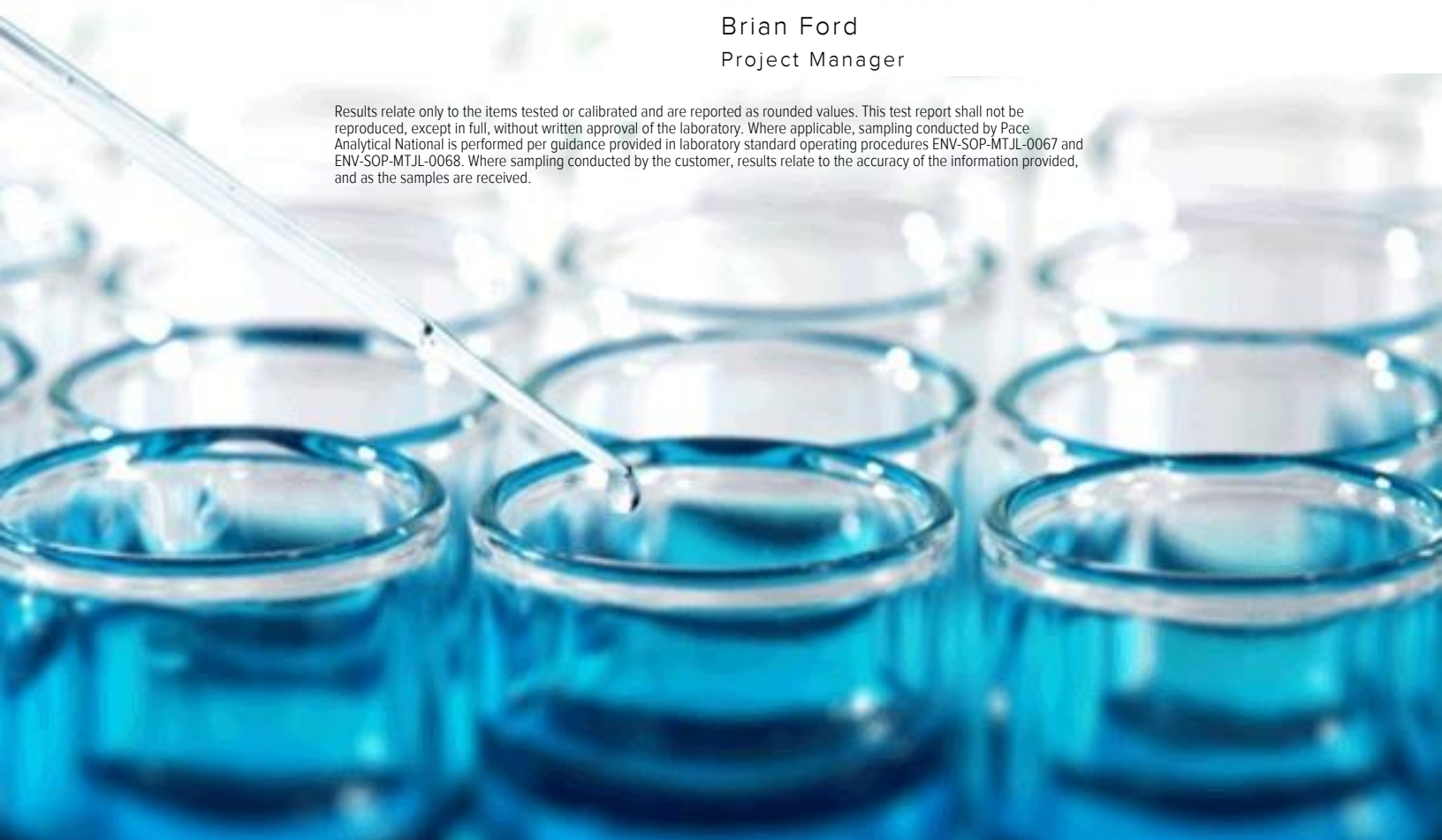
Sample Delivery Group: L1122507  
Samples Received: 07/26/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.







<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	<b>3</b> Ss
<b>MW-142-072519 L1122507-01</b>	<b>5</b>	
<b>EQ-072519 L1122507-02</b>	<b>8</b>	<b>4</b> Cn
<b>TRIP-072519 L1122507-03</b>	<b>11</b>	<b>5</b> Sr
<b>Qc: Quality Control Summary</b>	<b>13</b>	
<b>Wet Chemistry by Method 2320 B-2011</b>	<b>13</b>	<b>6</b> Qc
<b>Wet Chemistry by Method 9056A</b>	<b>14</b>	
<b>Wet Chemistry by Method 9060A</b>	<b>16</b>	<b>7</b> Gl
<b>Metals (ICPMS) by Method 6020B</b>	<b>17</b>	
<b>Volatile Organic Compounds (GC) by Method NWTPHGX</b>	<b>18</b>	<b>8</b> Al
<b>Volatile Organic Compounds (GC) by Method RSK175</b>	<b>20</b>	
<b>Volatile Organic Compounds (GC/MS) by Method 8260C</b>	<b>21</b>	<b>9</b> Sc
<b>Gl: Glossary of Terms</b>	<b>26</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>27</b>	
<b>Sc: Sample Chain of Custody</b>	<b>28</b>	

# SAMPLE SUMMARY



## MW-142-072519 L1122507-01 GW

Collected by Hannah Cohen  
Collected date/time 07/25/19 12:35  
Received date/time 07/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1319145	1	07/30/19 16:40	07/30/19 16:40	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1317914	1	07/26/19 14:38	07/26/19 14:38	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1318499	1	07/27/19 12:41	07/27/19 12:41	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1318607	20	07/29/19 07:30	07/29/19 16:37	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1318530	1	07/27/19 12:42	07/27/19 12:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1319045	1	07/29/19 10:46	07/29/19 10:46	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1318725	1	07/27/19 23:36	07/27/19 23:36	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1319563	1	07/30/19 18:36	07/30/19 18:36	BMB	Mt. Juliet, TN

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## EQ-072519 L1122507-02 GW

Collected by Hannah Cohen  
Collected date/time 07/25/19 14:00  
Received date/time 07/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1319145	1	07/30/19 14:24	07/30/19 14:24	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1317914	1	07/26/19 14:54	07/26/19 14:54	LDC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1317914	1	07/26/19 22:17	07/26/19 22:17	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1318499	1	07/27/19 13:15	07/27/19 13:15	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1318607	1	07/29/19 07:30	07/29/19 14:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1318530	1	07/27/19 13:06	07/27/19 13:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1319045	1	07/29/19 12:02	07/29/19 12:02	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1318725	1	07/27/19 23:55	07/27/19 23:55	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1319563	1	07/30/19 19:30	07/30/19 19:30	DWR	Mt. Juliet, TN

## TRIP-072519 L1122507-03 GW

Collected by Hannah Cohen  
Collected date/time 07/25/19 14:50  
Received date/time 07/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1318914	1	07/28/19 13:41	07/28/19 13:41	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1318725	1	07/27/19 20:01	07/27/19 20:01	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1319563	1	07/30/19 17:31	07/30/19 17:31	BMB	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

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



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	792000		2710	20000	1	07/30/2019 16:40	<a href="#">WG1319145</a>

Sample Narrative:

L1122507-01 WG1319145: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	10600		51.9	1000	1	07/26/2019 14:38	<a href="#">WG1317914</a>
Nitrate	U		22.7	100	1	07/26/2019 14:38	<a href="#">WG1317914</a>
Sulfate	48800		77.4	5000	1	07/26/2019 14:38	<a href="#">WG1317914</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	27900		102	1000	1	07/27/2019 12:41	<a href="#">WG1318499</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	5890		300	2000	20	07/29/2019 16:37	<a href="#">WG1318607</a>
Manganese	3630		5.00	100	20	07/29/2019 16:37	<a href="#">WG1318607</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/27/2019 12:42	<a href="#">WG1318530</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/27/2019 12:42	<a href="#">WG1318530</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	3070		0.287	0.678	1	07/29/2019 10:46	<a href="#">WG1319045</a>
Ethane	27.8		0.296	1.29	1	07/29/2019 10:46	<a href="#">WG1319045</a>
Ethene	U		0.422	1.27	1	07/29/2019 10:46	<a href="#">WG1319045</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.50	J	1.05	25.0	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Acrylonitrile	U		0.873	5.00	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Benzene	0.413	J	0.0896	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Bromobenzene	U		0.133	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Bromodichloromethane	U		0.0800	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Bromochloromethane	U		0.145	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Bromoform	U		0.186	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Bromomethane	U		0.157	2.50	1	07/27/2019 23:36	<a href="#">WG1318725</a>
n-Butylbenzene	U		0.143	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
sec-Butylbenzene	U		0.134	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
tert-Butylbenzene	U		0.183	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Carbon disulfide	U		0.101	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Carbon tetrachloride	U		0.159	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	0.465	U	0.140	0.500	1	07/27/2019 23:36	WG1318725
Chlorodibromomethane	U		0.128	0.500	1	07/27/2019 23:36	WG1318725
Chloroethane	U		0.141	2.50	1	07/27/2019 23:36	WG1318725
Chloroform	0.300	U	0.0860	0.500	1	07/27/2019 23:36	WG1318725
Chloromethane	U		0.153	1.25	1	07/27/2019 23:36	WG1318725
2-Chlorotoluene	U		0.111	0.500	1	07/27/2019 23:36	WG1318725
4-Chlorotoluene	U		0.0972	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/27/2019 23:36	WG1318725
1,2-Dibromoethane	U		0.193	0.500	1	07/27/2019 23:36	WG1318725
Dibromomethane	U		0.117	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dichlorobenzene	U		0.101	0.500	1	07/27/2019 23:36	WG1318725
1,3-Dichlorobenzene	U		0.130	0.500	1	07/27/2019 23:36	WG1318725
1,4-Dichlorobenzene	U		0.121	0.500	1	07/27/2019 23:36	WG1318725
Dichlorodifluoromethane	U		0.127	2.50	1	07/27/2019 23:36	WG1318725
1,1-Dichloroethane	U		0.114	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dichloroethane	U		0.108	0.500	1	07/27/2019 23:36	WG1318725
1,1-Dichloroethene	U		0.188	0.500	1	07/27/2019 23:36	WG1318725
cis-1,2-Dichloroethene	7.70		0.0933	0.500	1	07/27/2019 23:36	WG1318725
trans-1,2-Dichloroethene	0.169	U	0.152	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dichloropropane	U		0.190	0.500	1	07/27/2019 23:36	WG1318725
1,1-Dichloropropene	U		0.128	0.500	1	07/27/2019 23:36	WG1318725
1,3-Dichloropropane	U		0.147	1.00	1	07/27/2019 23:36	WG1318725
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/27/2019 23:36	WG1318725
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/27/2019 23:36	WG1318725
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/27/2019 23:36	WG1318725
2,2-Dichloropropane	U		0.0929	0.500	1	07/27/2019 23:36	WG1318725
Di-isopropyl ether	U		0.0924	0.500	1	07/27/2019 23:36	WG1318725
Ethylbenzene	U		0.158	0.500	1	07/27/2019 23:36	WG1318725
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/27/2019 23:36	WG1318725
2-Hexanone	U		0.757	5.00	1	07/27/2019 23:36	WG1318725
n-Hexane	U		0.305	5.00	1	07/27/2019 23:36	WG1318725
Iodomethane	U		0.377	10.0	1	07/27/2019 23:36	WG1318725
Isopropylbenzene	U		0.126	0.500	1	07/27/2019 23:36	WG1318725
p-Isopropyltoluene	U		0.138	0.500	1	07/27/2019 23:36	WG1318725
2-Butanone (MEK)	U		1.28	5.00	1	07/27/2019 23:36	WG1318725
Methylene Chloride	U		1.07	2.50	1	07/27/2019 23:36	WG1318725
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/27/2019 23:36	WG1318725
Methyl tert-butyl ether	U		0.102	0.500	1	07/27/2019 23:36	WG1318725
Naphthalene	U		0.174	2.50	1	07/27/2019 23:36	WG1318725
n-Propylbenzene	U		0.162	0.500	1	07/27/2019 23:36	WG1318725
Styrene	U		0.117	0.500	1	07/27/2019 23:36	WG1318725
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/27/2019 23:36	WG1318725
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/27/2019 23:36	WG1318725
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/30/2019 18:36	WG1319563
Tetrachloroethene	U		0.199	0.500	1	07/27/2019 23:36	WG1318725
Toluene	U		0.412	0.500	1	07/27/2019 23:36	WG1318725
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/27/2019 23:36	WG1318725
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/27/2019 23:36	WG1318725
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/27/2019 23:36	WG1318725
1,1,2-Trichloroethane	U		0.186	0.500	1	07/27/2019 23:36	WG1318725
Trichloroethene	0.218	U	0.153	0.500	1	07/27/2019 23:36	WG1318725
Trichlorofluoromethane	U		0.130	2.50	1	07/27/2019 23:36	WG1318725
1,2,3-Trichloropropane	U		0.247	2.50	1	07/27/2019 23:36	WG1318725
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/27/2019 23:36	WG1318725
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/27/2019 23:36	WG1318725
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/27/2019 23:36	WG1318725

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Vinyl chloride	6.57		0.118	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Xylenes, Total	U		0.316	1.50	1	07/27/2019 23:36	<a href="#">WG1318725</a>
(S) Toluene-d8	107			80.0-120		07/27/2019 23:36	<a href="#">WG1318725</a>
(S) Toluene-d8	107			80.0-120		07/30/2019 18:36	<a href="#">WG1319563</a>
(S) 4-Bromofluorobenzene	99.1			77.0-126		07/27/2019 23:36	<a href="#">WG1318725</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/30/2019 18:36	<a href="#">WG1319563</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/27/2019 23:36	<a href="#">WG1318725</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/30/2019 18:36	<a href="#">WG1319563</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	4690	<u>B</u> J	2710	20000	1	07/30/2019 14:24	<a href="#">WG1319145</a>

## Sample Narrative:

L1122507-02 WG1319145: Endpoint pH 4.5

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	404	<u>J</u>	51.9	1000	1	07/26/2019 14:54	<a href="#">WG1317914</a>
Nitrate	53.9	<u>J</u>	22.7	100	1	07/26/2019 22:17	<a href="#">WG1317914</a>
Sulfate	236	<u>J</u>	77.4	5000	1	07/26/2019 22:17	<a href="#">WG1317914</a>

## Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	381	<u>B</u> J	102	1000	1	07/27/2019 13:15	<a href="#">WG1318499</a>

## Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	36.1	<u>J</u>	15.0	100	1	07/29/2019 14:24	<a href="#">WG1318607</a>
Manganese	6.84		0.250	5.00	1	07/29/2019 14:24	<a href="#">WG1318607</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

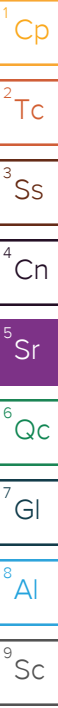
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/27/2019 13:06	<a href="#">WG1318530</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/27/2019 13:06	<a href="#">WG1318530</a>

## Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	07/29/2019 12:02	<a href="#">WG1319045</a>
Ethane	U		0.296	1.29	1	07/29/2019 12:02	<a href="#">WG1319045</a>
Ethene	U		0.422	1.27	1	07/29/2019 12:02	<a href="#">WG1319045</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.75	<u>J</u>	1.05	25.0	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Acrylonitrile	U		0.873	5.00	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Benzene	U		0.0896	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Bromobenzene	U		0.133	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Bromodichloromethane	U		0.0800	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Bromochloromethane	U		0.145	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Bromoform	U		0.186	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Bromomethane	U		0.157	2.50	1	07/27/2019 23:55	<a href="#">WG1318725</a>
n-Butylbenzene	U		0.143	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
sec-Butylbenzene	U		0.134	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
tert-Butylbenzene	U		0.183	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Carbon disulfide	U		0.101	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Carbon tetrachloride	U		0.159	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>





Collected date/time: 07/25/19 14:00

L1122507

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	0.413	J	0.140	0.500	1	07/27/2019 23:55	WG1318725
Chlorodibromomethane	U		0.128	0.500	1	07/27/2019 23:55	WG1318725
Chloroethane	U		0.141	2.50	1	07/27/2019 23:55	WG1318725
Chloroform	0.547		0.0860	0.500	1	07/27/2019 23:55	WG1318725
Chloromethane	U		0.153	1.25	1	07/27/2019 23:55	WG1318725
2-Chlorotoluene	U		0.111	0.500	1	07/27/2019 23:55	WG1318725
4-Chlorotoluene	U		0.0972	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/27/2019 23:55	WG1318725
1,2-Dibromoethane	U		0.193	0.500	1	07/27/2019 23:55	WG1318725
Dibromomethane	U		0.117	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dichlorobenzene	U		0.101	0.500	1	07/27/2019 23:55	WG1318725
1,3-Dichlorobenzene	U		0.130	0.500	1	07/27/2019 23:55	WG1318725
1,4-Dichlorobenzene	U		0.121	0.500	1	07/27/2019 23:55	WG1318725
Dichlorodifluoromethane	U		0.127	2.50	1	07/27/2019 23:55	WG1318725
1,1-Dichloroethane	U		0.114	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dichloroethane	U		0.108	0.500	1	07/27/2019 23:55	WG1318725
1,1-Dichloroethene	U		0.188	0.500	1	07/27/2019 23:55	WG1318725
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/27/2019 23:55	WG1318725
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dichloropropane	U		0.190	0.500	1	07/27/2019 23:55	WG1318725
1,1-Dichloropropene	U		0.128	0.500	1	07/27/2019 23:55	WG1318725
1,3-Dichloropropane	U		0.147	1.00	1	07/27/2019 23:55	WG1318725
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/27/2019 23:55	WG1318725
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/27/2019 23:55	WG1318725
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/27/2019 23:55	WG1318725
2,2-Dichloropropane	U		0.0929	0.500	1	07/27/2019 23:55	WG1318725
Di-isopropyl ether	U		0.0924	0.500	1	07/27/2019 23:55	WG1318725
Ethylbenzene	U		0.158	0.500	1	07/27/2019 23:55	WG1318725
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/27/2019 23:55	WG1318725
2-Hexanone	U		0.757	5.00	1	07/27/2019 23:55	WG1318725
n-Hexane	U		0.305	5.00	1	07/27/2019 23:55	WG1318725
Iodomethane	U		0.377	10.0	1	07/27/2019 23:55	WG1318725
Isopropylbenzene	U		0.126	0.500	1	07/27/2019 23:55	WG1318725
p-Isopropyltoluene	U		0.138	0.500	1	07/27/2019 23:55	WG1318725
2-Butanone (MEK)	U		1.28	5.00	1	07/27/2019 23:55	WG1318725
Methylene Chloride	U		1.07	2.50	1	07/27/2019 23:55	WG1318725
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/27/2019 23:55	WG1318725
Methyl tert-butyl ether	U		0.102	0.500	1	07/27/2019 23:55	WG1318725
Naphthalene	U		0.174	2.50	1	07/27/2019 23:55	WG1318725
n-Propylbenzene	U		0.162	0.500	1	07/27/2019 23:55	WG1318725
Styrene	U		0.117	0.500	1	07/27/2019 23:55	WG1318725
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/27/2019 23:55	WG1318725
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/27/2019 23:55	WG1318725
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/30/2019 19:30	WG1319563
Tetrachloroethene	U		0.199	0.500	1	07/27/2019 23:55	WG1318725
Toluene	U		0.412	0.500	1	07/27/2019 23:55	WG1318725
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/27/2019 23:55	WG1318725
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/27/2019 23:55	WG1318725
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/27/2019 23:55	WG1318725
1,1,2-Trichloroethane	U		0.186	0.500	1	07/27/2019 23:55	WG1318725
Trichloroethene	U		0.153	0.500	1	07/27/2019 23:55	WG1318725
Trichlorofluoromethane	U		0.130	2.50	1	07/27/2019 23:55	WG1318725
1,2,3-Trichloropropane	U		0.247	2.50	1	07/27/2019 23:55	WG1318725
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/27/2019 23:55	WG1318725
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/27/2019 23:55	WG1318725
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/27/2019 23:55	WG1318725

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 07/25/19 14:00

L1122507

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Vinyl chloride	U		0.118	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Xylenes, Total	U		0.316	1.50	1	07/27/2019 23:55	<a href="#">WG1318725</a>
(S) Toluene-d8	106			80.0-120		07/27/2019 23:55	<a href="#">WG1318725</a>
(S) Toluene-d8	106			80.0-120		07/30/2019 19:30	<a href="#">WG1319563</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/27/2019 23:55	<a href="#">WG1318725</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/30/2019 19:30	<a href="#">WG1319563</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/27/2019 23:55	<a href="#">WG1318725</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/30/2019 19:30	<a href="#">WG1319563</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/28/2019 13:41	<a href="#">WG1318914</a>
(S) a,a,a-Trifluorotoluene(FID)	97.8			78.0-120		07/28/2019 13:41	<a href="#">WG1318914</a>

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Acrylonitrile	U		0.873	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Benzene	U		0.0896	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Bromobenzene	U		0.133	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Bromodichloromethane	U		0.0800	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Bromochloromethane	U		0.145	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Bromoform	U		0.186	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Bromomethane	U		0.157	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
n-Butylbenzene	U		0.143	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
sec-Butylbenzene	U		0.134	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
tert-Butylbenzene	U		0.183	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Carbon disulfide	U		0.101	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Carbon tetrachloride	U		0.159	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Chlorobenzene	U		0.140	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Chlorodibromomethane	U		0.128	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Chloroethane	U		0.141	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Chloroform	U		0.0860	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Chloromethane	U		0.153	1.25	1	07/27/2019 20:01	<a href="#">WG1318725</a>
2-Chlorotoluene	U		0.111	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Dibromomethane	U		0.117	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Ethylbenzene	U		0.158	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
2-Hexanone	U		0.757	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
n-Hexane	U		0.305	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Iodomethane	U		0.377	10.0	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Isopropylbenzene	U		0.126	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>



Collected date/time: 07/25/19 14:50

L1122507

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Naphthalene	U		0.174	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
n-Propylbenzene	U		0.162	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Styrene	U		0.117	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/30/2019 17:31	<a href="#">WG1319563</a>
Tetrachloroethene	U		0.199	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Toluene	U		0.412	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Trichloroethene	U		0.153	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Vinyl acetate	U		0.645	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Vinyl chloride	U		0.118	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Xylenes, Total	U		0.316	1.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
(S) Toluene-d8	108			80.0-120		07/27/2019 20:01	<a href="#">WG1318725</a>
(S) Toluene-d8	107			80.0-120		07/30/2019 17:31	<a href="#">WG1319563</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/27/2019 20:01	<a href="#">WG1318725</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/30/2019 17:31	<a href="#">WG1319563</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		07/27/2019 20:01	<a href="#">WG1318725</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/30/2019 17:31	<a href="#">WG1319563</a>

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



Method Blank (MB)

(MB) R3435857-1 07/30/19 13:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	3540	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1122290-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1122290-01 07/30/19 13:59 • (DUP) R3435857-2 07/30/19 14:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	129000	130000	1	1.04		20

Sample Narrative:

OS: Endpoint pH 4.5  
DUP: Endpoint pH 4.5

L1122291-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1122291-02 07/30/19 16:47 • (DUP) R3435857-4 07/30/19 16:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	188000	187000	1	0.235		20

Sample Narrative:

OS: Endpoint pH 4.5  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3435857-3 07/30/19 14:58

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	95800	95.8	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3434885-1 07/26/19 08:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1122308-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1122308-08 07/26/19 09:43 • (DUP) R3434885-3 07/26/19 11:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	9680	9700	1	0.276		15
Nitrate	ND	0.000	1	0.000		15
Sulfate	33800	34100	1	0.918		15

L1122531-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1122531-03 07/26/19 16:33 • (DUP) R3434885-6 07/26/19 16:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	76400	76400	1	0.114		15
Nitrate	655	670	1	2.19		15
Sulfate	ND	633	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3434885-2 07/26/19 08:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	39600	99.0	80.0-120	
Nitrate	8000	8040	100	80.0-120	
Sulfate	40000	39000	97.5	80.0-120	



L1122308-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1122308-08 07/26/19 09:43 • (MS) R3434885-4 07/26/19 11:54 • (MSD) R3434885-5 07/26/19 12:10

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	9680	60900	61400	102	103	1	80.0-120			0.823	15
Nitrate	5000	ND	4980	5020	99.6	100	1	80.0-120			0.734	15
Sulfate	50000	33800	85900	86300	104	105	1	80.0-120			0.511	15

L1122531-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1122531-03 07/26/19 16:33 • (MS) R3434885-7 07/26/19 17:05

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	76400	127000	101	1	80.0-120	E
Nitrate	5000	655	5660	100	1	80.0-120	
Sulfate	50000	ND	51200	101	1	80.0-120	

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



Method Blank (MB)

(MB) R3435134-1 07/27/19 11:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	235	↓	102	1000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1122507-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1122507-01 07/27/19 12:41 • (DUP) R3435134-3 07/27/19 13:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	27900	27600	1	1.33		20

L1122822-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1122822-01 07/27/19 20:45 • (DUP) R3435134-8 07/27/19 21:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1040	1140	1	8.93		20

Laboratory Control Sample (LCS)

(LCS) R3435134-2 07/27/19 11:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	74400	99.1	85.0-115	

L1122507-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1122507-02 07/27/19 13:15 • (MS) R3435134-4 07/27/19 13:34 • (MSD) R3435134-5 07/27/19 13:50

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	381	49900	50600	99.0	100	1	80.0-120			1.45	20

L1122531-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1122531-10 07/27/19 19:30 • (MS) R3435134-6 07/27/19 19:51 • (MSD) R3435134-7 07/27/19 20:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	ND	51400	51300	101	101	1	80.0-120			0.175	20



Method Blank (MB)

(MB) R3435428-1 07/29/19 13:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435428-2 07/29/19 13:56 • (LCSD) R3435428-3 07/29/19 14:01

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	5730	5510	115	110	80.0-120			3.75	20
Manganese	50.0	54.7	53.4	109	107	80.0-120			2.42	20

5 Sr

6 Qc

L1122507-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1122507-01 07/29/19 14:05 • (MS) R3435428-5 07/29/19 14:15 • (MSD) R3435428-6 07/29/19 14:19

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	4430	9340	9740	98.1	106	1	75.0-125			4.21	20
Manganese	50.0	2810	2780	2820	0.000	29.1	1	75.0-125	V	V	1.41	20

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3435720-3 07/27/19 10:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3435720-2 07/27/19 09:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5220	95.0	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			99.4	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3436169-3 07/28/19 12:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	97.7			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3436169-2 07/28/19 11:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5500	100	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			104	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3435241-1 07/29/19 09:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1122317-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1122317-04 07/29/19 09:26 • (DUP) R3435241-2 07/29/19 10:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	203	200	1	1.28		20
Ethane	ND	12.3	1	3.80		20
Ethene	ND	0.000	1	0.000		20

L1122507-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1122507-02 07/29/19 12:02 • (DUP) R3435241-3 07/29/19 12:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	0.000	1	0.000		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435241-4 07/29/19 12:11 • (LCSD) R3435241-5 07/29/19 12:29

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.0	70.1	98.8	103	85.0-115			4.58	20
Ethane	129	113	114	87.2	88.5	85.0-115			1.47	20
Ethene	127	112	113	87.8	89.3	85.0-115			1.61	20



Method Blank (MB)

(MB) R3435410-4 07/27/19 17:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromochloromethane	U		0.145	0.500
Bromodichloromethane	U		0.0800	0.500
Bromoform	U		0.186	0.500
n-Butylbenzene	U		0.143	0.500
Bromomethane	U		0.157	2.50
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
Chloroform	U		0.0860	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
Chloromethane	U		0.153	1.25
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,1-Dichloropropene	U		0.128	0.500
1,2-Dichloroethane	U		0.108	0.500
1,3-Dichloropropane	U		0.147	1.00
1,1-Dichloroethene	U		0.188	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
1,2-Dichloropropane	U		0.190	0.500
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500
cis-1,3-Dichloropropene	U		0.0976	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3435410-4 07/27/19 17:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
trans-1,3-Dichloropropene	U		0.222	0.500
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Ethylbenzene	U		0.158	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Hexanone	U		0.757	5.00
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
Isopropylbenzene	U		0.126	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Styrene	U		0.117	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	105			80.0-120
(S) 4-Bromofluorobenzene	95.9			77.0-126
(S) 1,2-Dichloroethane-d4	109			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435410-1 07/27/19 15:45 • (LCSD) R3435410-2 07/27/19 16:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromobenzene	25.0	22.1	22.0	88.4	87.8	73.0-121			0.696	20
Bromochloromethane	25.0	26.2	25.1	105	100	76.0-122			4.40	20
n-Butylbenzene	25.0	25.9	25.9	103	104	73.0-125			0.327	20
sec-Butylbenzene	25.0	24.8	24.4	99.0	97.4	75.0-125			1.64	20
tert-Butylbenzene	25.0	24.6	24.8	98.3	99.1	76.0-124			0.795	20
2-Chlorotoluene	25.0	23.7	23.8	94.7	95.1	76.0-123			0.432	20
4-Chlorotoluene	25.0	24.2	24.1	97.0	96.3	75.0-122			0.744	20
1,2-Dibromo-3-Chloropropane	25.0	21.1	21.3	84.3	85.1	58.0-134			0.934	20
1,2-Dibromoethane	25.0	26.6	26.8	107	107	80.0-122			0.605	20
Dibromomethane	25.0	26.4	26.6	105	106	80.0-120			0.880	20
cis-1,2-Dichloroethene	25.0	24.7	24.1	98.9	96.2	73.0-120			2.72	20
1,1-Dichloropropene	25.0	27.4	26.8	110	107	74.0-126			2.45	20
1,3-Dichloropropane	25.0	26.3	26.7	105	107	80.0-120			1.76	20
trans-1,4-Dichloro-2-butene	25.0	20.8	18.6	83.1	74.4	33.0-144			11.0	20
2,2-Dichloropropane	25.0	26.8	25.8	107	103	58.0-130			3.71	20
Di-isopropyl ether	25.0	27.9	27.6	112	110	58.0-138			1.19	20
Hexachloro-1,3-butadiene	25.0	26.2	26.1	105	104	54.0-138			0.563	20
Acetone	125	152	169	122	135	19.0-160			10.6	27
n-Hexane	25.0	32.4	31.6	129	126	57.0-133			2.46	20
Iodomethane	125	131	126	105	101	33.0-147			3.61	26
Acrylonitrile	125	123	122	98.0	98.0	55.0-149			0.0507	20
Benzene	25.0	24.8	24.1	99.4	96.2	70.0-123			3.26	20
p-Isopropyltoluene	25.0	24.4	24.8	97.7	99.0	76.0-125			1.33	20
Bromodichloromethane	25.0	28.2	27.7	113	111	75.0-120			1.55	20
Bromoform	25.0	25.7	25.8	103	103	68.0-132			0.386	20
Bromomethane	25.0	26.5	25.4	106	102	10.0-160			4.36	25
Naphthalene	25.0	23.3	23.8	93.2	95.1	54.0-135			1.99	20
n-Propylbenzene	25.0	24.9	24.9	99.5	99.6	77.0-124			0.112	20
1,1,1,2-Tetrachloroethane	25.0	23.8	23.8	95.2	95.1	75.0-125			0.159	20
Carbon disulfide	25.0	28.9	27.3	116	109	61.0-128			5.63	20
Carbon tetrachloride	25.0	29.9	28.7	119	115	68.0-126			3.93	20
Chlorobenzene	25.0	25.0	24.7	99.8	98.6	80.0-121			1.22	20
Chlorodibromomethane	25.0	28.0	28.4	112	114	77.0-125			1.51	20
Chloroethane	25.0	27.9	26.7	112	107	47.0-150			4.43	20
Chloroform	25.0	24.8	24.1	99.2	96.4	73.0-120			2.89	20
Chloromethane	25.0	29.7	28.7	119	115	41.0-142			3.53	20
1,2,3-Trichloropropane	25.0	23.6	23.8	94.2	95.3	73.0-130			1.17	20
1,2,4-Trimethylbenzene	25.0	23.5	23.6	94.1	94.3	76.0-121			0.227	20
1,2,3-Trimethylbenzene	25.0	28.5	28.9	114	116	77.0-120			1.35	20
1,3,5-Trimethylbenzene	25.0	24.2	24.3	96.8	97.3	76.0-122			0.586	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435410-1 07/27/19 15:45 • (LCSD) R3435410-2 07/27/19 16:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
1,2-Dichlorobenzene	25.0	23.6	23.8	94.4	95.4	79.0-121			1.03	20
Vinyl acetate	125	154	153	123	122	11.0-160			0.805	20
1,3-Dichlorobenzene	25.0	24.2	24.6	96.9	98.5	79.0-120			1.63	20
1,4-Dichlorobenzene	25.0	23.6	23.5	94.2	93.9	79.0-120			0.382	20
Dichlorodifluoromethane	25.0	32.3	31.5	129	126	51.0-149			2.32	20
1,1-Dichloroethane	25.0	26.1	25.4	104	102	70.0-126			2.63	20
1,2-Dichloroethane	25.0	25.9	24.9	104	99.8	70.0-128			3.79	20
1,1-Dichloroethene	25.0	27.4	27.2	110	109	71.0-124			0.753	20
trans-1,2-Dichloroethene	25.0	26.0	24.8	104	99.2	73.0-120			4.51	20
1,2-Dichloropropane	25.0	28.0	27.4	112	109	77.0-125			2.44	20
cis-1,3-Dichloropropene	25.0	28.3	28.0	113	112	80.0-123			1.07	20
trans-1,3-Dichloropropene	25.0	26.8	26.9	107	108	78.0-124			0.562	20
Ethylbenzene	25.0	25.3	25.5	101	102	79.0-123			0.767	20
2-Hexanone	125	128	134	102	107	67.0-149			4.58	20
Isopropylbenzene	25.0	25.6	25.3	102	101	76.0-127			0.986	20
2-Butanone (MEK)	125	142	151	114	121	44.0-160			6.30	20
Methylene Chloride	25.0	24.4	23.6	97.6	94.5	67.0-120			3.23	20
4-Methyl-2-pentanone (MIBK)	125	124	126	99.5	101	68.0-142			1.50	20
Methyl tert-butyl ether	25.0	21.3	21.4	85.1	85.5	68.0-125			0.517	20
Styrene	25.0	26.5	26.2	106	105	73.0-130			1.23	20
1,1,2,2-Tetrachloroethane	25.0	22.6	22.9	90.6	91.6	65.0-130			1.15	20
Tetrachloroethene	25.0	27.3	27.0	109	108	72.0-132			1.00	20
Toluene	25.0	24.5	24.3	98.1	97.1	79.0-120			1.03	20
1,2,3-Trichlorobenzene	25.0	25.5	26.4	102	106	50.0-138			3.52	20
1,2,4-Trichlorobenzene	25.0	25.4	26.0	102	104	57.0-137			2.19	20
1,1,1-Trichloroethane	25.0	28.8	28.0	115	112	73.0-124			2.70	20
1,1,2-Trichloroethane	25.0	27.4	27.4	109	109	80.0-120			0.0470	20
Trichloroethene	25.0	26.2	25.4	105	102	78.0-124			3.20	20
Trichlorofluoromethane	25.0	29.2	28.1	117	112	59.0-147			4.02	20
Vinyl chloride	25.0	29.1	27.8	116	111	67.0-131			4.31	20
Xylenes, Total	75.0	73.6	73.1	98.1	97.5	79.0-123			0.682	20
(S) Toluene-d8				105	108	80.0-120				
(S) 4-Bromofluorobenzene				96.8	97.8	77.0-126				
(S) 1,2-Dichloroethane-d4				115	111	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3435760-3 07/30/19 10:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	103			77.0-126
(S) 1,2-Dichloroethane-d4	107			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435760-1 07/30/19 09:25 • (LCSD) R3435760-2 07/30/19 09:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
1,1,2-Trichlorotrifluoroethane	25.0	25.2	26.0	101	104	69.0-132			2.85	20
(S) Toluene-d8				108	105	80.0-120				
(S) 4-Bromofluorobenzene				104	105	77.0-126				
(S) 1,2-Dichloroethane-d4				106	108	70.0-130				

6 Qc

7 Gl

8 Al

9 Sc





Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

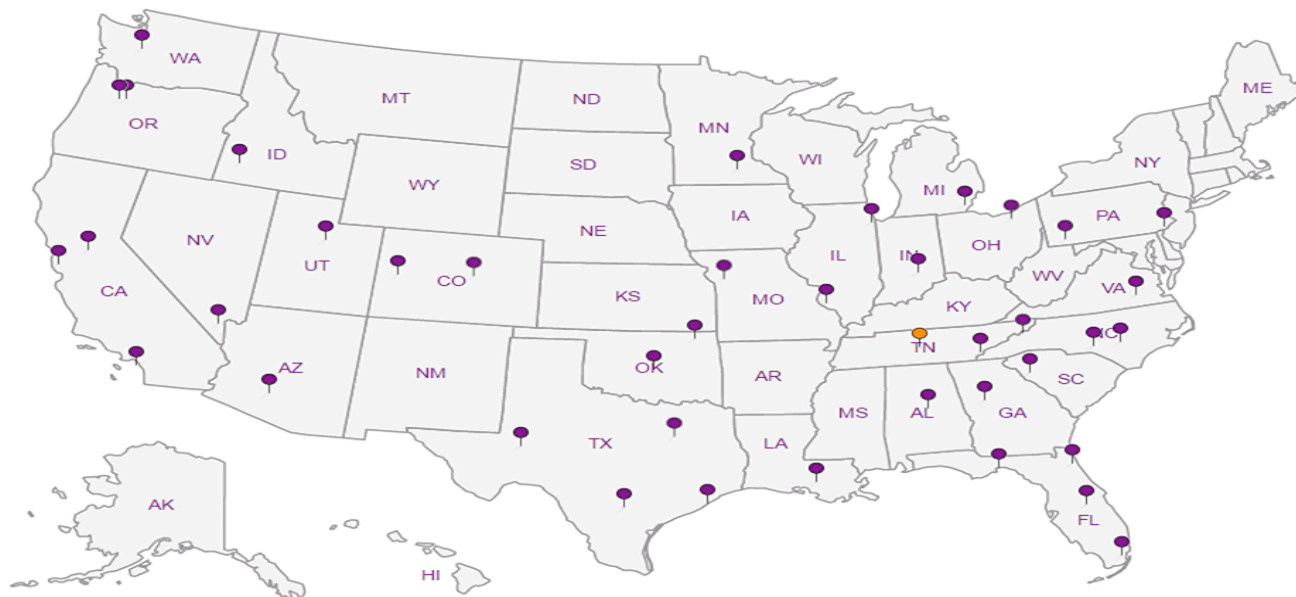
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**  
 1215 Fourth Ave., Suite 1350  
 Seattle, WA 98161

Billing Information:  
 Attn: Accounts Payable  
 1215 Fourth Ave., Ste. 1350  
 Seattle, WA 98161

Pre: Chk

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_

**Face Analytical®**  
 National Center for Testing & Innovation

Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: boneal@pesenv.com; **KVIK@PESE.MI.COM**  
 bhaldeman@pesenv.com; **KSPRINGSTEAD@PESENV.COM**

Project Description: **American Linen** City/State Collected: **Seattle, WA**

12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859

Phone: **206-529-3980** Client Project # **1413.001.05.601** Lab Project # **PESENVSWA-ALP**  
 Fax: **206-529-3985**

Collected by (print): **Hannah Cohen** Site/Facility ID # **American Linen** P.O. #  
 Collected by (signature): **Hannah Cohen** **Rush?** (Lab MUST Be Notified)  
 \_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

Quote #  
 Date Results Needed  
**STAT**

Immediately  
 Packed on Ice N \_\_\_ Y

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,SO4,Cl*	125mIHDPE-NoPres	Alkalinity 125mIHDPE-NoPres	EEM RSK175LL 40mlAmb-HCI	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs 8260LLC 40mlAmb-HCl				
MW-142-072519	Grab	GW	45	7/25/19	1235	12	X	X	X	X	X	X	X	X				01
EQ-072519		GW	-	7/25/19	1400	12	X	X	X	X	X	X	X	X				02
TRIP-072519		GW	-	7/25/19	1450	1				X				X				03

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: \*Nitrate has a 48 hour holding time  
**Tier QA/QC, bill PES, Email OK**

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Tracking # **4452 8628 4490**

**Sample Receipt Checklist**

COC Seal Present/Intact:  NP Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N

If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N  
**RAD SCREEN: <0.5 mR/hr**

Relinquished by: (Signature) **Hannah Cohen** Date: **7/25/19** Time: **1530** Received by: (Signature) Trip Blank Received:  Yes/No  No (HCl / MeOH TBR)

Relinquished by: (Signature) Date: Time: Received by: (Signature) Temp: **ASBPC** Bottles Received: **24**  
**4.6+1=4.7**

Relinquished by: (Signature) Date: Time: Received for lab by: (Signature) Date: **7-26-19** Time: **8:45** Hold: Condition: **NCF / OK**



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	792000		2710	20000	1	07/30/2019 16:40	<a href="#">WG1319145</a>

Sample Narrative:

L1122507-01 WG1319145: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	10600		51.9	1000	1	07/26/2019 14:38	<a href="#">WG1317914</a>
Nitrate	U		22.7	100	1	07/26/2019 14:38	<a href="#">WG1317914</a>
Sulfate	48800		77.4	5000	1	07/26/2019 14:38	<a href="#">WG1317914</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	27900		102	1000	1	07/27/2019 12:41	<a href="#">WG1318499</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	5890		300	2000	20	07/29/2019 16:37	<a href="#">WG1318607</a>
Manganese	3630		5.00	100	20	07/29/2019 16:37	<a href="#">WG1318607</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/27/2019 12:42	<a href="#">WG1318530</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/27/2019 12:42	<a href="#">WG1318530</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	3070		0.287	0.678	1	07/29/2019 10:46	<a href="#">WG1319045</a>
Ethane	27.8		0.296	1.29	1	07/29/2019 10:46	<a href="#">WG1319045</a>
Ethene	U		0.422	1.27	1	07/29/2019 10:46	<a href="#">WG1319045</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.50 U	J	1.05	25.0	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Acrylonitrile	U		0.873	5.00	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Benzene	0.413 J	J	0.0896	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Bromobenzene	U		0.133	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Bromodichloromethane	U		0.0800	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Bromochloromethane	U		0.145	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Bromoform	U		0.186	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Bromomethane	U		0.157	2.50	1	07/27/2019 23:36	<a href="#">WG1318725</a>
n-Butylbenzene	U		0.143	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
sec-Butylbenzene	U		0.134	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
tert-Butylbenzene	U		0.183	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Carbon disulfide	U		0.101	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Carbon tetrachloride	U		0.159	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>

JC 8/7/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/25/19 12:35

L1122507

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	0.465	U J	0.140	0.500	1	07/27/2019 23:36	WG1318725
Chlorodibromomethane	U		0.128	0.500	1	07/27/2019 23:36	WG1318725
Chloroethane	U		0.141	2.50	1	07/27/2019 23:36	WG1318725
Chloroform	0.300	U J	0.0860	0.500	1	07/27/2019 23:36	WG1318725
Chloromethane	U		0.153	1.25	1	07/27/2019 23:36	WG1318725
2-Chlorotoluene	U		0.111	0.500	1	07/27/2019 23:36	WG1318725
4-Chlorotoluene	U		0.0972	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/27/2019 23:36	WG1318725
1,2-Dibromoethane	U		0.193	0.500	1	07/27/2019 23:36	WG1318725
Dibromomethane	U		0.117	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dichlorobenzene	U		0.101	0.500	1	07/27/2019 23:36	WG1318725
1,3-Dichlorobenzene	U		0.130	0.500	1	07/27/2019 23:36	WG1318725
1,4-Dichlorobenzene	U		0.121	0.500	1	07/27/2019 23:36	WG1318725
Dichlorodifluoromethane	U		0.127	2.50	1	07/27/2019 23:36	WG1318725
1,1-Dichloroethane	U		0.114	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dichloroethane	U		0.108	0.500	1	07/27/2019 23:36	WG1318725
1,1-Dichloroethene	U		0.188	0.500	1	07/27/2019 23:36	WG1318725
cis-1,2-Dichloroethene	7.70		0.0933	0.500	1	07/27/2019 23:36	WG1318725
trans-1,2-Dichloroethene	0.169	J J	0.152	0.500	1	07/27/2019 23:36	WG1318725
1,2-Dichloropropane	U		0.190	0.500	1	07/27/2019 23:36	WG1318725
1,1-Dichloropropene	U		0.128	0.500	1	07/27/2019 23:36	WG1318725
1,3-Dichloropropane	U		0.147	1.00	1	07/27/2019 23:36	WG1318725
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/27/2019 23:36	WG1318725
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/27/2019 23:36	WG1318725
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/27/2019 23:36	WG1318725
2,2-Dichloropropane	U		0.0929	0.500	1	07/27/2019 23:36	WG1318725
Di-isopropyl ether	U		0.0924	0.500	1	07/27/2019 23:36	WG1318725
Ethylbenzene	U		0.158	0.500	1	07/27/2019 23:36	WG1318725
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/27/2019 23:36	WG1318725
2-Hexanone	U		0.757	5.00	1	07/27/2019 23:36	WG1318725
n-Hexane	U		0.305	5.00	1	07/27/2019 23:36	WG1318725
Iodomethane	U		0.377	10.0	1	07/27/2019 23:36	WG1318725
Isopropylbenzene	U		0.126	0.500	1	07/27/2019 23:36	WG1318725
p-Isopropyltoluene	U		0.138	0.500	1	07/27/2019 23:36	WG1318725
2-Butanone (MEK)	U		1.28	5.00	1	07/27/2019 23:36	WG1318725
Methylene Chloride	U		1.07	2.50	1	07/27/2019 23:36	WG1318725
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/27/2019 23:36	WG1318725
Methyl tert-butyl ether	U		0.102	0.500	1	07/27/2019 23:36	WG1318725
Naphthalene	U		0.174	2.50	1	07/27/2019 23:36	WG1318725
n-Propylbenzene	U		0.162	0.500	1	07/27/2019 23:36	WG1318725
Styrene	U		0.117	0.500	1	07/27/2019 23:36	WG1318725
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/27/2019 23:36	WG1318725
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/27/2019 23:36	WG1318725
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/30/2019 18:36	WG1319563
Tetrachloroethene	U		0.199	0.500	1	07/27/2019 23:36	WG1318725
Toluene	U		0.412	0.500	1	07/27/2019 23:36	WG1318725
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/27/2019 23:36	WG1318725
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/27/2019 23:36	WG1318725
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/27/2019 23:36	WG1318725
1,1,2-Trichloroethane	U		0.186	0.500	1	07/27/2019 23:36	WG1318725
Trichloroethene	0.218	J J	0.153	0.500	1	07/27/2019 23:36	WG1318725
Trichlorofluoromethane	U		0.130	2.50	1	07/27/2019 23:36	WG1318725
1,2,3-Trichloropropane	U		0.247	2.50	1	07/27/2019 23:36	WG1318725
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/27/2019 23:36	WG1318725
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/27/2019 23:36	WG1318725
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/27/2019 23:36	WG1318725

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/7/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Vinyl chloride	6.57		0.118	0.500	1	07/27/2019 23:36	<a href="#">WG1318725</a>
Xylenes, Total	U		0.316	1.50	1	07/27/2019 23:36	<a href="#">WG1318725</a>
(S) Toluene-d8	107			80.0-120		07/27/2019 23:36	<a href="#">WG1318725</a>
(S) Toluene-d8	107			80.0-120		07/30/2019 18:36	<a href="#">WG1319563</a>
(S) 4-Bromofluorobenzene	99.1			77.0-126		07/27/2019 23:36	<a href="#">WG1318725</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/30/2019 18:36	<a href="#">WG1319563</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/27/2019 23:36	<a href="#">WG1318725</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/30/2019 18:36	<a href="#">WG1319563</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 8/7/19



## Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	4690	<u>B</u> J	2710	20000	1	07/30/2019 14:24	<a href="#">WG1319145</a>

## Sample Narrative:

L1122507-02 WG1319145: Endpoint pH 4.5

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	404	<u>J</u>	51.9	1000	1	07/26/2019 14:54	<a href="#">WG1317914</a>
Nitrate	53.9	<u>J</u>	22.7	100	1	07/26/2019 22:17	<a href="#">WG1317914</a>
Sulfate	236	<u>J</u>	77.4	5000	1	07/26/2019 22:17	<a href="#">WG1317914</a>

## Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	381	<u>B</u> J	102	1000	1	07/27/2019 13:15	<a href="#">WG1318499</a>

## Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	36.1	<u>J</u>	15.0	100	1	07/29/2019 14:24	<a href="#">WG1318607</a>
Manganese	6.84		0.250	5.00	1	07/29/2019 14:24	<a href="#">WG1318607</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

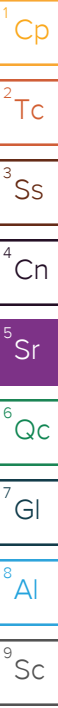
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/27/2019 13:06	<a href="#">WG1318530</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		07/27/2019 13:06	<a href="#">WG1318530</a>

## Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	07/29/2019 12:02	<a href="#">WG1319045</a>
Ethane	U		0.296	1.29	1	07/29/2019 12:02	<a href="#">WG1319045</a>
Ethene	U		0.422	1.27	1	07/29/2019 12:02	<a href="#">WG1319045</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.75	<u>J</u>	1.05	25.0	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Acrylonitrile	U		0.873	5.00	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Benzene	U		0.0896	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Bromobenzene	U		0.133	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Bromodichloromethane	U		0.0800	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Bromochloromethane	U		0.145	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Bromoform	U		0.186	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Bromomethane	U		0.157	2.50	1	07/27/2019 23:55	<a href="#">WG1318725</a>
n-Butylbenzene	U		0.143	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
sec-Butylbenzene	U		0.134	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
tert-Butylbenzene	U		0.183	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Carbon disulfide	U		0.101	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Carbon tetrachloride	U		0.159	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>





Collected date/time: 07/25/19 14:00

L1122507

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	0.413	J	0.140	0.500	1	07/27/2019 23:55	WG1318725
Chlorodibromomethane	U		0.128	0.500	1	07/27/2019 23:55	WG1318725
Chloroethane	U		0.141	2.50	1	07/27/2019 23:55	WG1318725
Chloroform	0.547		0.0860	0.500	1	07/27/2019 23:55	WG1318725
Chloromethane	U		0.153	1.25	1	07/27/2019 23:55	WG1318725
2-Chlorotoluene	U		0.111	0.500	1	07/27/2019 23:55	WG1318725
4-Chlorotoluene	U		0.0972	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/27/2019 23:55	WG1318725
1,2-Dibromoethane	U		0.193	0.500	1	07/27/2019 23:55	WG1318725
Dibromomethane	U		0.117	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dichlorobenzene	U		0.101	0.500	1	07/27/2019 23:55	WG1318725
1,3-Dichlorobenzene	U		0.130	0.500	1	07/27/2019 23:55	WG1318725
1,4-Dichlorobenzene	U		0.121	0.500	1	07/27/2019 23:55	WG1318725
Dichlorodifluoromethane	U		0.127	2.50	1	07/27/2019 23:55	WG1318725
1,1-Dichloroethane	U		0.114	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dichloroethane	U		0.108	0.500	1	07/27/2019 23:55	WG1318725
1,1-Dichloroethene	U		0.188	0.500	1	07/27/2019 23:55	WG1318725
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/27/2019 23:55	WG1318725
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/27/2019 23:55	WG1318725
1,2-Dichloropropane	U		0.190	0.500	1	07/27/2019 23:55	WG1318725
1,1-Dichloropropene	U		0.128	0.500	1	07/27/2019 23:55	WG1318725
1,3-Dichloropropane	U		0.147	1.00	1	07/27/2019 23:55	WG1318725
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/27/2019 23:55	WG1318725
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/27/2019 23:55	WG1318725
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/27/2019 23:55	WG1318725
2,2-Dichloropropane	U		0.0929	0.500	1	07/27/2019 23:55	WG1318725
Di-isopropyl ether	U		0.0924	0.500	1	07/27/2019 23:55	WG1318725
Ethylbenzene	U		0.158	0.500	1	07/27/2019 23:55	WG1318725
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/27/2019 23:55	WG1318725
2-Hexanone	U		0.757	5.00	1	07/27/2019 23:55	WG1318725
n-Hexane	U		0.305	5.00	1	07/27/2019 23:55	WG1318725
Iodomethane	U		0.377	10.0	1	07/27/2019 23:55	WG1318725
Isopropylbenzene	U		0.126	0.500	1	07/27/2019 23:55	WG1318725
p-Isopropyltoluene	U		0.138	0.500	1	07/27/2019 23:55	WG1318725
2-Butanone (MEK)	U		1.28	5.00	1	07/27/2019 23:55	WG1318725
Methylene Chloride	U		1.07	2.50	1	07/27/2019 23:55	WG1318725
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/27/2019 23:55	WG1318725
Methyl tert-butyl ether	U		0.102	0.500	1	07/27/2019 23:55	WG1318725
Naphthalene	U		0.174	2.50	1	07/27/2019 23:55	WG1318725
n-Propylbenzene	U		0.162	0.500	1	07/27/2019 23:55	WG1318725
Styrene	U		0.117	0.500	1	07/27/2019 23:55	WG1318725
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/27/2019 23:55	WG1318725
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/27/2019 23:55	WG1318725
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/30/2019 19:30	WG1319563
Tetrachloroethene	U		0.199	0.500	1	07/27/2019 23:55	WG1318725
Toluene	U		0.412	0.500	1	07/27/2019 23:55	WG1318725
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/27/2019 23:55	WG1318725
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/27/2019 23:55	WG1318725
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/27/2019 23:55	WG1318725
1,1,2-Trichloroethane	U		0.186	0.500	1	07/27/2019 23:55	WG1318725
Trichloroethene	U		0.153	0.500	1	07/27/2019 23:55	WG1318725
Trichlorofluoromethane	U		0.130	2.50	1	07/27/2019 23:55	WG1318725
1,2,3-Trichloropropane	U		0.247	2.50	1	07/27/2019 23:55	WG1318725
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/27/2019 23:55	WG1318725
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/27/2019 23:55	WG1318725
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/27/2019 23:55	WG1318725

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 07/25/19 14:00

L1122507

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Vinyl chloride	U		0.118	0.500	1	07/27/2019 23:55	<a href="#">WG1318725</a>
Xylenes, Total	U		0.316	1.50	1	07/27/2019 23:55	<a href="#">WG1318725</a>
(S) Toluene-d8	106			80.0-120		07/27/2019 23:55	<a href="#">WG1318725</a>
(S) Toluene-d8	106			80.0-120		07/30/2019 19:30	<a href="#">WG1319563</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/27/2019 23:55	<a href="#">WG1318725</a>
(S) 4-Bromofluorobenzene	104			77.0-126		07/30/2019 19:30	<a href="#">WG1319563</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/27/2019 23:55	<a href="#">WG1318725</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/30/2019 19:30	<a href="#">WG1319563</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	07/28/2019 13:41	<a href="#">WG1318914</a>
(S) a,a,a-Trifluorotoluene(FID)	97.8			78.0-120		07/28/2019 13:41	<a href="#">WG1318914</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Acrylonitrile	U		0.873	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Benzene	U		0.0896	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Bromobenzene	U		0.133	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Bromodichloromethane	U		0.0800	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Bromochloromethane	U		0.145	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Bromoform	U		0.186	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Bromomethane	U		0.157	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
n-Butylbenzene	U		0.143	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
sec-Butylbenzene	U		0.134	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
tert-Butylbenzene	U		0.183	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Carbon disulfide	U		0.101	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Carbon tetrachloride	U		0.159	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Chlorobenzene	U		0.140	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Chlorodibromomethane	U		0.128	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Chloroethane	U		0.141	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Chloroform	U		0.0860	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Chloromethane	U		0.153	1.25	1	07/27/2019 20:01	<a href="#">WG1318725</a>
2-Chlorotoluene	U		0.111	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
4-Chlorotoluene	U		0.0972	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2-Dibromoethane	U		0.193	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Dibromomethane	U		0.117	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Dichlorodifluoromethane	U		0.127	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1-Dichloroethane	U		0.114	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2-Dichloroethane	U		0.108	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1-Dichloroethene	U		0.188	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2-Dichloropropane	U		0.190	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1-Dichloropropene	U		0.128	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,3-Dichloropropane	U		0.147	1.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
2,2-Dichloropropane	U		0.0929	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Di-isopropyl ether	U		0.0924	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Ethylbenzene	U		0.158	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
2-Hexanone	U		0.757	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
n-Hexane	U		0.305	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Iodomethane	U		0.377	10.0	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Isopropylbenzene	U		0.126	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
p-Isopropyltoluene	U		0.138	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
2-Butanone (MEK)	U		1.28	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>



Collected date/time: 07/25/19 14:50

L1122507

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

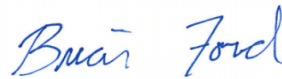
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Methyl tert-butyl ether	U		0.102	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Naphthalene	U		0.174	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
n-Propylbenzene	U		0.162	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Styrene	U		0.117	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	07/30/2019 17:31	<a href="#">WG1319563</a>
Tetrachloroethene	U		0.199	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Toluene	U		0.412	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Trichloroethene	U		0.153	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Trichlorofluoromethane	U		0.130	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Vinyl acetate	U		0.645	5.00	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Vinyl chloride	U		0.118	0.500	1	07/27/2019 20:01	<a href="#">WG1318725</a>
Xylenes, Total	U		0.316	1.50	1	07/27/2019 20:01	<a href="#">WG1318725</a>
(S) Toluene-d8	108			80.0-120		07/27/2019 20:01	<a href="#">WG1318725</a>
(S) Toluene-d8	107			80.0-120		07/30/2019 17:31	<a href="#">WG1319563</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/27/2019 20:01	<a href="#">WG1318725</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/30/2019 17:31	<a href="#">WG1319563</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		07/27/2019 20:01	<a href="#">WG1318725</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/30/2019 17:31	<a href="#">WG1319563</a>

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

## PES Environmental, Inc.- WA

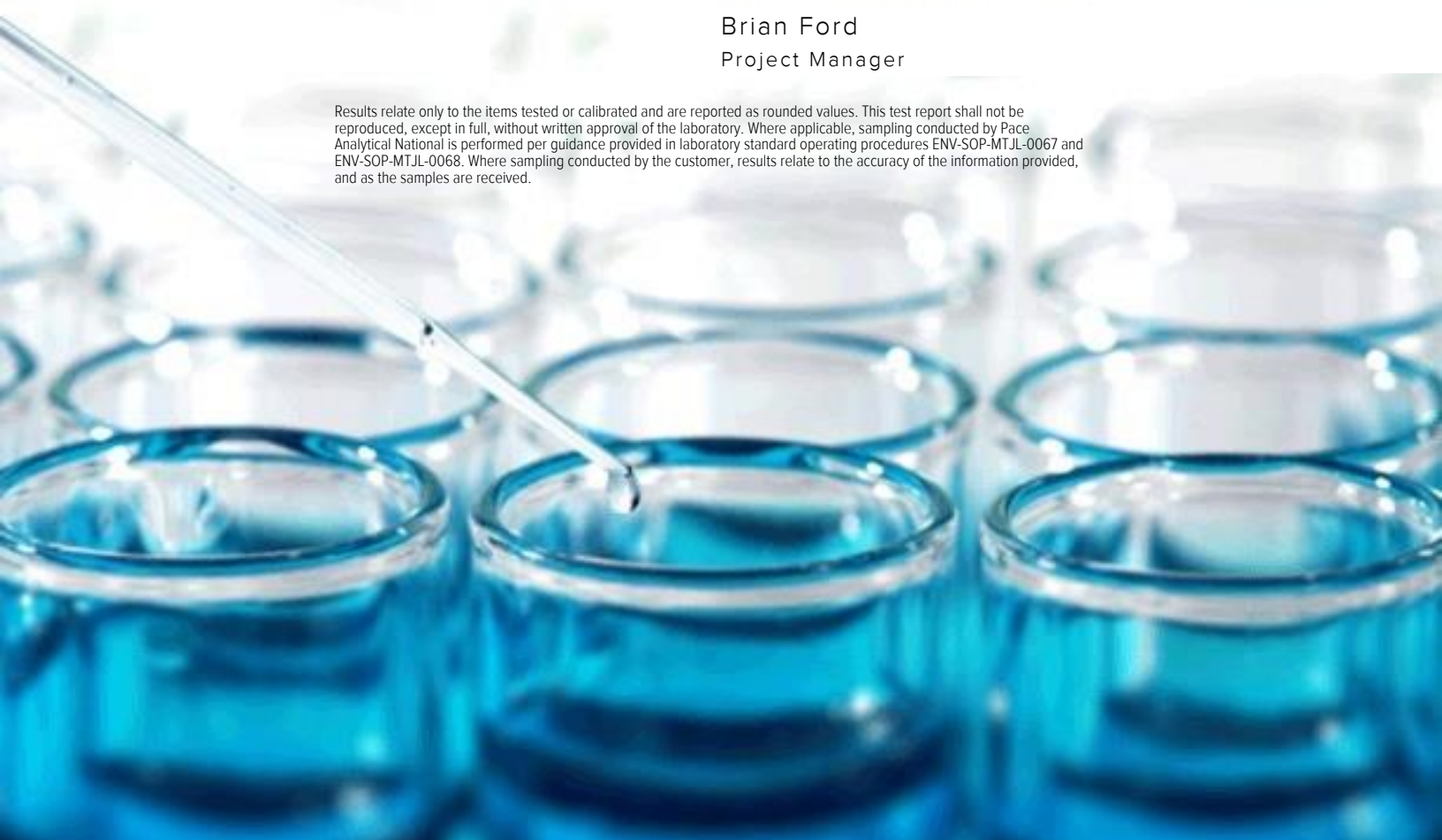
Sample Delivery Group: L1124853  
Samples Received: 08/02/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	<b>3</b> Ss
<b>MW127-080119 L1124853-01</b>	<b>5</b>	
<b>TRIPBLANK-080119 L1124853-02</b>	<b>7</b>	<b>4</b> Cn
<b>Qc: Quality Control Summary</b>	<b>9</b>	<b>5</b> Sr
<b>Volatile Organic Compounds (GC) by Method NWTPHGX</b>	<b>9</b>	
<b>Volatile Organic Compounds (GC/MS) by Method 8260C</b>	<b>11</b>	<b>6</b> Qc
<b>Gl: Glossary of Terms</b>	<b>17</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>18</b>	<b>7</b> Gl
<b>Sc: Sample Chain of Custody</b>	<b>19</b>	<b>8</b> Al
		<b>9</b> Sc

# SAMPLE SUMMARY

## MW127-080119 L1124853-01 GW

Collected by Hannah Cohen    Collected date/time 08/01/19 10:35    Received date/time 08/02/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1324526	1	08/07/19 13:27	08/07/19 13:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1323449	1	08/06/19 02:51	08/06/19 02:51	JHH	Mt. Juliet, TN

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

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Qc

7  
Gl

8  
Al

9  
Sc

## TRIPBLANK-080119 L1124853-02 GW

Collected by Hannah Cohen    Collected date/time 08/01/19 11:07    Received date/time 08/02/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1325194	1	08/08/19 19:02	08/08/19 19:02	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1323449	1	08/05/19 22:49	08/05/19 22:49	JHH	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/07/2019 13:27	<a href="#">WG1324526</a>
(S) a,a,a-Trifluorotoluene(FID)	112			78.0-120		08/07/2019 13:27	<a href="#">WG1324526</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.59	J	1.05	25.0	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Acrylonitrile	U		0.873	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Benzene	U		0.0896	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Bromobenzene	U		0.133	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Bromodichloromethane	U		0.0800	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Bromochloromethane	U		0.145	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Bromoform	U		0.186	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Bromomethane	U		0.157	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
n-Butylbenzene	U		0.143	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
sec-Butylbenzene	U		0.134	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
tert-Butylbenzene	U		0.183	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Carbon disulfide	U		0.101	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Carbon tetrachloride	U		0.159	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Chlorobenzene	U		0.140	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Chlorodibromomethane	U		0.128	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Chloroethane	U		0.141	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Chloroform	U		0.0860	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Chloromethane	U		0.153	1.25	1	08/06/2019 02:51	<a href="#">WG1323449</a>
2-Chlorotoluene	U		0.111	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
4-Chlorotoluene	U		0.0972	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2-Dibromoethane	U		0.193	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Dibromomethane	U		0.117	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Dichlorodifluoromethane	U		0.127	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1-Dichloroethane	0.495	J	0.114	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2-Dichloroethane	U		0.108	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1-Dichloroethene	U		0.188	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
cis-1,2-Dichloroethene	0.489	J	0.0933	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2-Dichloropropane	U		0.190	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1-Dichloropropene	U		0.128	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,3-Dichloropropane	U		0.147	1.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
2,2-Dichloropropane	U		0.0929	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Di-isopropyl ether	U		0.0924	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Ethylbenzene	U		0.158	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
2-Hexanone	U		0.757	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
n-Hexane	U		0.305	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Iodomethane	U		0.377	10.0	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Isopropylbenzene	U		0.126	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
p-Isopropyltoluene	U		0.138	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
2-Butanone (MEK)	U		1.28	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Methyl tert-butyl ether	U		0.102	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Naphthalene	U		0.174	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
n-Propylbenzene	U		0.162	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Styrene	U		0.117	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1,2-Trichlorotrifluoroethane	0.542		0.164	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Tetrachloroethene	U		0.199	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Toluene	U		0.412	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Trichloroethene	U		0.153	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Vinyl acetate	U		0.645	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Vinyl chloride	U		0.118	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Xylenes, Total	U		0.316	1.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
(S) Toluene-d8	105			80.0-120		08/06/2019 02:51	<a href="#">WG1323449</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/06/2019 02:51	<a href="#">WG1323449</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/06/2019 02:51	<a href="#">WG1323449</a>

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



Collected date/time: 08/01/19 11:07

L1124853

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/08/2019 19:02	<a href="#">WG1325194</a>
(S) a,a,a-Trifluorotoluene(FID)	96.8			78.0-120		08/08/2019 19:02	<a href="#">WG1325194</a>

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	3.24	J	1.05	25.0	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Acrylonitrile	U		0.873	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Benzene	U		0.0896	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Bromobenzene	U		0.133	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Bromodichloromethane	U		0.0800	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Bromochloromethane	U		0.145	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Bromoform	U		0.186	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Bromomethane	U		0.157	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
n-Butylbenzene	U		0.143	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
sec-Butylbenzene	U		0.134	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
tert-Butylbenzene	U		0.183	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Carbon disulfide	U		0.101	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Carbon tetrachloride	U		0.159	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Chlorobenzene	U		0.140	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Chlorodibromomethane	U		0.128	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Chloroethane	U		0.141	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Chloroform	U		0.0860	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Chloromethane	U		0.153	1.25	1	08/05/2019 22:49	<a href="#">WG1323449</a>
2-Chlorotoluene	U		0.111	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
4-Chlorotoluene	U		0.0972	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2-Dibromoethane	U		0.193	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Dibromomethane	U		0.117	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Dichlorodifluoromethane	U		0.127	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1-Dichloroethane	U		0.114	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2-Dichloroethane	U		0.108	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1-Dichloroethene	U		0.188	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2-Dichloropropane	U		0.190	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1-Dichloropropene	U		0.128	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,3-Dichloropropane	U		0.147	1.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
2,2-Dichloropropane	U		0.0929	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Di-isopropyl ether	U		0.0924	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Ethylbenzene	U		0.158	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Hexachloro-1,3-butadiene	0.164	B J	0.157	1.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
2-Hexanone	U		0.757	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
n-Hexane	U		0.305	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Iodomethane	U		0.377	10.0	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Isopropylbenzene	U		0.126	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
p-Isopropyltoluene	U		0.138	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
2-Butanone (MEK)	U		1.28	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>



Collected date/time: 08/01/19 11:07

L1124853

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Methyl tert-butyl ether	U		0.102	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Naphthalene	U		0.174	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
n-Propylbenzene	U		0.162	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Styrene	U		0.117	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Tetrachloroethene	U		0.199	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Toluene	U		0.412	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Trichloroethene	U		0.153	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Vinyl acetate	U		0.645	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Vinyl chloride	U		0.118	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Xylenes, Total	U		0.316	1.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
(S) Toluene-d8	106			80.0-120		08/05/2019 22:49	<a href="#">WG1323449</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/05/2019 22:49	<a href="#">WG1323449</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/05/2019 22:49	<a href="#">WG1323449</a>

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



Method Blank (MB)

(MB) R3438304-3 08/07/19 11:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	112			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3438304-2 08/07/19 10:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5600	102	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			92.4	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3438729-3 08/08/19 14:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	43.3	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	94.2			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3438729-1 08/08/19 11:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	4230	76.9	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			99.7	78.0-120	



Method Blank (MB)

(MB) R3437705-2 08/05/19 19:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3437705-2 08/05/19 19:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	0.330	U	0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	0.163	U	0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	104			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3437705-1 08/05/19 18:37

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	125	139	111	19.0-160	
Acrylonitrile	125	143	114	55.0-149	
Benzene	25.0	25.5	102	70.0-123	
Bromobenzene	25.0	22.6	90.5	73.0-121	
Bromodichloromethane	25.0	27.0	108	75.0-120	
Bromochloromethane	25.0	26.7	107	76.0-122	
Bromoform	25.0	23.5	94.0	68.0-132	
Bromomethane	25.0	27.0	108	10.0-160	
n-Butylbenzene	25.0	25.4	102	73.0-125	
sec-Butylbenzene	25.0	24.9	99.5	75.0-125	
tert-Butylbenzene	25.0	24.7	98.7	76.0-124	
Carbon disulfide	25.0	26.6	107	61.0-128	
Carbon tetrachloride	25.0	30.3	121	68.0-126	
Chlorobenzene	25.0	25.0	100	80.0-121	
Chlorodibromomethane	25.0	26.8	107	77.0-125	
Chloroethane	25.0	25.9	104	47.0-150	
Chloroform	25.0	25.9	104	73.0-120	
Chloromethane	25.0	21.2	85.0	41.0-142	
2-Chlorotoluene	25.0	23.9	95.7	76.0-123	
4-Chlorotoluene	25.0	24.2	96.7	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	22.8	91.4	58.0-134	
1,2-Dibromoethane	25.0	26.1	104	80.0-122	
Dibromomethane	25.0	26.8	107	80.0-120	
1,2-Dichlorobenzene	25.0	23.7	94.8	79.0-121	
1,3-Dichlorobenzene	25.0	24.0	96.0	79.0-120	
1,4-Dichlorobenzene	25.0	23.4	93.6	79.0-120	
Dichlorodifluoromethane	25.0	20.7	82.9	51.0-149	
1,1-Dichloroethane	25.0	26.7	107	70.0-126	
1,2-Dichloroethane	25.0	27.1	108	70.0-128	
1,1-Dichloroethene	25.0	26.9	108	71.0-124	
cis-1,2-Dichloroethene	25.0	25.7	103	73.0-120	
trans-1,2-Dichloroethene	25.0	26.2	105	73.0-120	
1,2-Dichloropropane	25.0	25.9	104	77.0-125	
1,1-Dichloropropene	25.0	26.5	106	74.0-126	
1,3-Dichloropropane	25.0	25.5	102	80.0-120	
cis-1,3-Dichloropropene	25.0	27.8	111	80.0-123	
trans-1,3-Dichloropropene	25.0	26.4	106	78.0-124	
trans-1,4-Dichloro-2-butene	25.0	20.7	82.9	33.0-144	
2,2-Dichloropropane	25.0	26.0	104	58.0-130	
Di-isopropyl ether	25.0	26.5	106	58.0-138	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Laboratory Control Sample (LCS)

(LCS) R3437705-1 08/05/19 18:37

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	25.0	24.3	97.1	79.0-123	
Hexachloro-1,3-butadiene	25.0	22.7	90.9	54.0-138	
2-Hexanone	125	135	108	67.0-149	
n-Hexane	25.0	27.5	110	57.0-133	
Iodomethane	125	127	102	33.0-147	
Isopropylbenzene	25.0	25.2	101	76.0-127	
p-Isopropyltoluene	25.0	25.2	101	76.0-125	
2-Butanone (MEK)	125	139	111	44.0-160	
Methylene Chloride	25.0	25.9	103	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	128	102	68.0-142	
Methyl tert-butyl ether	25.0	28.2	113	68.0-125	
Naphthalene	25.0	22.8	91.4	54.0-135	
n-Propylbenzene	25.0	24.4	97.6	77.0-124	
Styrene	25.0	26.3	105	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	26.5	106	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	25.5	102	65.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	24.4	97.8	69.0-132	
Tetrachloroethene	25.0	24.5	98.0	72.0-132	
Toluene	25.0	24.1	96.3	79.0-120	
1,2,3-Trichlorobenzene	25.0	22.5	89.9	50.0-138	
1,2,4-Trichlorobenzene	25.0	23.8	95.4	57.0-137	
1,1,1-Trichloroethane	25.0	27.5	110	73.0-124	
1,1,2-Trichloroethane	25.0	25.8	103	80.0-120	
Trichloroethene	25.0	24.2	96.9	78.0-124	
Trichlorofluoromethane	25.0	19.1	76.5	59.0-147	
1,2,3-Trichloropropane	25.0	24.9	99.6	73.0-130	
1,2,4-Trimethylbenzene	25.0	24.3	97.4	76.0-121	
1,2,3-Trimethylbenzene	25.0	24.3	97.3	77.0-120	
1,3,5-Trimethylbenzene	25.0	23.5	94.0	76.0-122	
Vinyl acetate	125	151	121	11.0-160	
Vinyl chloride	25.0	26.9	107	67.0-131	
Xylenes, Total	75.0	72.7	96.9	79.0-123	
(S) Toluene-d8			104	80.0-120	
(S) 4-Bromofluorobenzene			106	77.0-126	
(S) 1,2-Dichloroethane-d4			110	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1125412-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1125412-03 08/06/19 01:03 • (MS) R3437705-3 08/06/19 03:35 • (MSD) R3437705-4 08/06/19 03:57

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	125	ND	120	118	94.2	92.5	1	10.0-160			1.83	35
Acrylonitrile	125	ND	136	138	108	110	1	21.0-160			1.69	32
Benzene	25.0	ND	25.2	24.4	101	97.6	1	17.0-158			3.29	27
Bromobenzene	25.0	ND	22.3	22.4	89.1	89.5	1	30.0-149			0.403	28
Bromodichloromethane	25.0	ND	25.7	25.5	103	102	1	31.0-150			0.538	27
Bromochloromethane	25.0	ND	25.9	25.4	104	102	1	38.0-142			2.07	26
Bromoform	25.0	ND	22.0	22.3	88.1	89.3	1	29.0-150			1.42	29
Bromomethane	25.0	ND	24.4	23.8	97.5	95.1	1	10.0-160			2.45	38
n-Butylbenzene	25.0	ND	24.9	25.2	99.6	101	1	31.0-150			1.40	30
sec-Butylbenzene	25.0	ND	25.0	25.4	99.8	101	1	33.0-155			1.63	29
tert-Butylbenzene	25.0	ND	24.8	25.1	99.2	100	1	34.0-153			1.21	28
Carbon disulfide	25.0	ND	25.7	25.1	103	101	1	10.0-156			2.45	28
Carbon tetrachloride	25.0	ND	31.2	30.8	125	123	1	23.0-159			1.08	28
Chlorobenzene	25.0	ND	24.5	24.6	97.9	98.4	1	33.0-152			0.468	27
Chlorodibromomethane	25.0	ND	25.1	25.5	100	102	1	37.0-149			1.78	27
Chloroethane	25.0	ND	25.2	25.5	101	102	1	10.0-160			1.06	30
Chloroform	25.0	ND	25.4	25.1	102	100	1	29.0-154			1.24	28
Chloromethane	25.0	ND	21.2	20.1	84.8	80.6	1	10.0-160			5.12	29
2-Chlorotoluene	25.0	ND	23.4	24.1	93.4	96.2	1	32.0-153			2.94	28
4-Chlorotoluene	25.0	ND	23.4	24.0	93.7	96.1	1	32.0-150			2.54	28
1,2-Dibromo-3-Chloropropane	25.0	ND	20.6	21.3	82.5	85.3	1	22.0-151			3.31	34
1,2-Dibromoethane	25.0	ND	25.1	25.2	100	101	1	34.0-147			0.348	27
Dibromomethane	25.0	ND	26.4	26.1	106	104	1	30.0-151			1.35	27
1,2-Dichlorobenzene	25.0	ND	22.9	23.6	91.6	94.5	1	34.0-149			3.10	28
1,3-Dichlorobenzene	25.0	ND	23.2	23.6	92.8	94.4	1	36.0-146			1.71	27
1,4-Dichlorobenzene	25.0	ND	22.6	23.4	90.3	93.5	1	35.0-142			3.47	27
Dichlorodifluoromethane	25.0	ND	22.0	21.8	87.9	87.2	1	10.0-160			0.902	29
1,1-Dichloroethane	25.0	ND	26.6	26.2	106	105	1	25.0-158			1.74	27
1,2-Dichloroethane	25.0	ND	25.7	25.5	103	102	1	29.0-151			1.02	27
1,1-Dichloroethene	25.0	ND	28.3	27.3	113	109	1	11.0-160			3.43	29
cis-1,2-Dichloroethene	25.0	ND	25.2	24.2	101	96.7	1	10.0-160			4.10	27
trans-1,2-Dichloroethene	25.0	ND	26.6	25.5	106	102	1	17.0-153			4.12	27
1,2-Dichloropropane	25.0	ND	25.8	25.6	103	102	1	30.0-156			0.819	27
1,1-Dichloropropene	25.0	ND	27.1	26.8	108	107	1	25.0-158			1.04	27
1,3-Dichloropropane	25.0	ND	24.0	24.8	96.0	99.2	1	38.0-147			3.29	27
cis-1,3-Dichloropropene	25.0	ND	26.2	25.6	105	102	1	34.0-149			2.63	28
trans-1,3-Dichloropropene	25.0	ND	25.1	25.3	100	101	1	32.0-149			0.983	28
trans-1,4-Dichloro-2-butene	25.0	ND	18.0	19.6	72.0	78.6	1	10.0-157			8.69	37
2,2-Dichloropropane	25.0	ND	27.4	26.5	110	106	1	24.0-152			3.27	29
Di-isopropyl ether	25.0	ND	25.2	25.0	101	100	1	21.0-160			0.872	28

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1125412-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1125412-03 08/06/19 01:03 • (MS) R3437705-3 08/06/19 03:35 • (MSD) R3437705-4 08/06/19 03:57

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	25.0	ND	23.5	23.5	94.1	94.1	1	30.0-155			0.0264	27
Hexachloro-1,3-butadiene	25.0	ND	22.7	23.0	90.7	92.2	1	20.0-154			1.57	34
2-Hexanone	125	ND	127	128	101	102	1	21.0-160			0.534	29
n-Hexane	25.0	ND	27.6	26.4	110	106	1	10.0-153			4.34	28
Iodomethane	125	ND	127	124	102	99.4	1	10.0-160			2.26	40
Isopropylbenzene	25.0	ND	24.9	24.9	99.6	99.5	1	28.0-157			0.0516	27
p-Isopropyltoluene	25.0	ND	24.8	25.0	99.2	99.9	1	30.0-154			0.657	29
2-Butanone (MEK)	125	ND	128	127	102	101	1	10.0-160			0.659	32
Methylene Chloride	25.0	ND	25.3	25.2	101	101	1	23.0-144			0.677	28
4-Methyl-2-pentanone (MIBK)	125	ND	119	122	95.4	97.8	1	29.0-160			2.45	29
Methyl tert-butyl ether	25.0	ND	26.6	26.6	106	106	1	28.0-150			0.267	29
Naphthalene	25.0	ND	20.3	21.7	81.2	86.9	1	12.0-156			6.80	35
n-Propylbenzene	25.0	ND	24.1	24.4	96.5	97.5	1	31.0-154			1.03	28
Styrene	25.0	ND	25.4	25.2	102	101	1	33.0-155			0.731	28
1,1,1,2-Tetrachloroethane	25.0	ND	25.5	25.9	102	104	1	36.0-151			1.62	29
1,1,2,2-Tetrachloroethane	25.0	ND	24.7	25.0	98.8	99.9	1	33.0-150			1.13	28
1,1,2-Trichlorotrifluoroethane	25.0	ND	27.1	26.6	109	107	1	23.0-160			1.84	30
Tetrachloroethene	25.0	ND	24.3	25.3	97.2	101	1	10.0-160			4.12	27
Toluene	25.0	ND	23.7	23.5	94.6	93.8	1	26.0-154			0.825	28
1,2,3-Trichlorobenzene	25.0	ND	21.3	22.1	85.2	88.3	1	17.0-150			3.61	36
1,2,4-Trichlorobenzene	25.0	ND	21.8	22.7	87.1	90.8	1	24.0-150			4.19	33
1,1,1-Trichloroethane	25.0	ND	28.0	27.1	112	108	1	23.0-160			3.15	28
1,1,2-Trichloroethane	25.0	ND	24.7	24.8	98.6	99.3	1	35.0-147			0.625	27
Trichloroethene	25.0	ND	23.8	24.1	95.3	96.3	1	10.0-160			1.11	25
Trichlorofluoromethane	25.0	ND	21.1	20.8	84.3	83.1	1	17.0-160			1.48	31
1,2,3-Trichloropropane	25.0	ND	23.0	23.6	91.9	94.5	1	34.0-151			2.75	29
1,2,4-Trimethylbenzene	25.0	ND	23.3	23.6	93.1	94.4	1	26.0-154			1.32	27
1,2,3-Trimethylbenzene	25.0	ND	23.4	23.5	93.7	94.1	1	32.0-149			0.462	28
1,3,5-Trimethylbenzene	25.0	ND	22.9	22.9	91.6	91.5	1	28.0-153			0.0519	27
Vinyl acetate	125	ND	145	147	116	118	1	12.0-160			1.21	31
Vinyl chloride	25.0	ND	27.6	26.7	110	107	1	10.0-160			3.03	27
Xylenes, Total	75.0	ND	70.5	70.6	94.0	94.1	1	29.0-154			0.142	28
(S) Toluene-d8					102	104		80.0-120				
(S) 4-Bromofluorobenzene					103	104		77.0-126				
(S) 1,2-Dichloroethane-d4					105	107		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

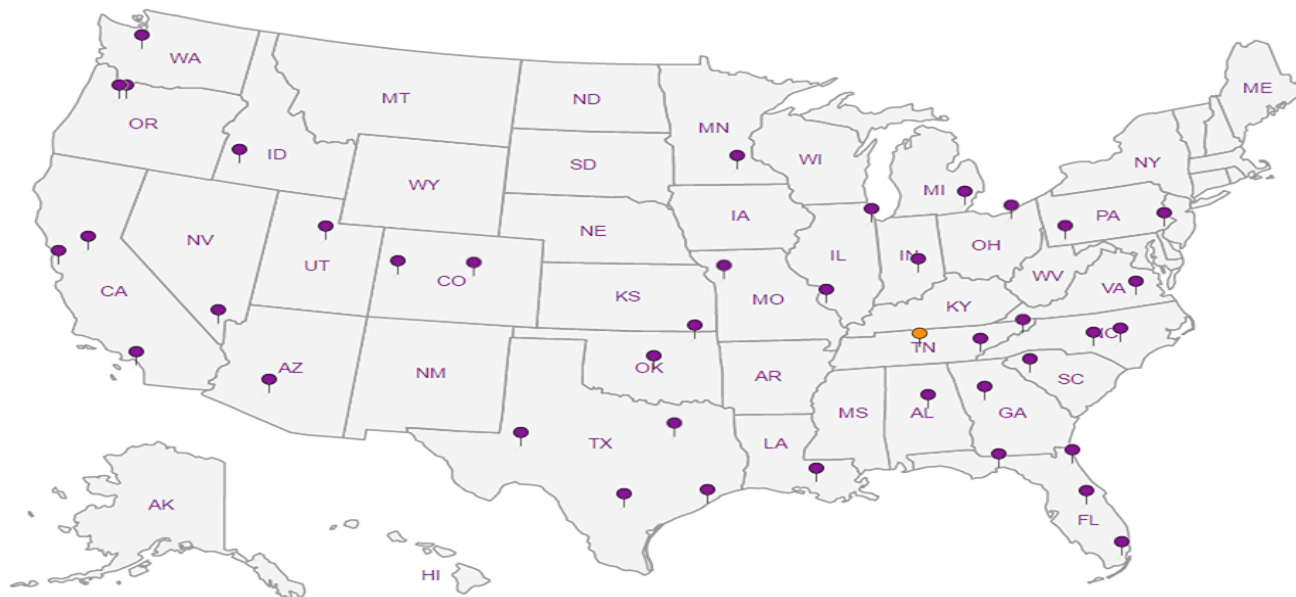
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl


8 Al

9 Sc

**PES Environmental, Inc.- WA**  
 1215 Fourth Ave., Suite 1350  
 Seattle, WA 98161

Billing Information:  
 Attn: Accounts Payable  
 1215 Fourth Ave., Ste. 1350  
 Seattle, WA 98161

Pres Chk

Chain of Custody Page \_\_\_ of \_\_\_  
  
 12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859

Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: boneal@pesenv.com; **KVIN@PESENV.COM**  
 bhaldeman@pesenv.com; **KSPRINGSTEAD@PESENV.COM**



Project Description: **American Liner**

City/State Collected: **Seattle, WA**

Phone: **206-529-3980**  
 Fax: **206-529-3985**

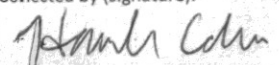
Client Project #  
**1413.001.05.601**

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
**Hannah Cohen**

Site/Facility ID #  
**American Liner**

P.O. #

Collected by (signature):  
  
 Immediately Packed on Ice N \_\_\_ Y

Rush? (Lab MUST Be Notified)  
 \_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

Quote #  
 Date Results Needed  
**STAT**

\*NO3,Cl, SO4\* 125mlHDPE-NoPres  
 Alkalinity 125mlHDPE-NoPres  
 EEM RSK175LL 40mlAmb-HCl  
 NWTPHGX 40mlAmb HCl  
 TOC 250mlAmb-HCl  
 Total Fe Mn 6020 250mlHDPE-HNO3  
 VOCs 8260LLC 40mlAmb-HCl

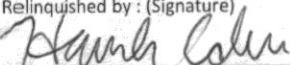
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**B035**  
 Acctnum: **PESENVSWA**  
 Template: **T152679**  
 Prelogin: **P718645**  
 TSR: **110 - Brian Ford**  
 PB: **7-5-19 ES**  
 Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW127-080119	Grab	GW	45'	8/1/19	1035	
TRIPBLANK-080119	"	GW	-	8/1/19	1107	
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				

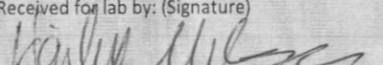
\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: \*Nitrate has a 48 hour holding time.  
**Tier QA/QC bill PES, Email OK**  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_  
 Samples returned via:  
 \_\_\_ UPS  FedEx \_\_\_ Courier \_\_\_\_\_  
 Tracking # **1082 5988 5620**

Sample Receipt Checklist  
 COC Seal Present/Intact:  NP Y \_\_\_ N \_\_\_  
 COC Signed/Accurate:  Y \_\_\_ N \_\_\_  
 Bottles arrive intact:  Y \_\_\_ N \_\_\_  
 Correct bottles used:  Y \_\_\_ N \_\_\_  
 Sufficient volume sent:  Y \_\_\_ N \_\_\_  
 If Applicable  
 VOA Zero Headspace:  Y \_\_\_ N \_\_\_  
 Preservation Correct/Checked:  Y \_\_\_ N \_\_\_

Relinquished by: (Signature)  
  
 Relinquished by: (Signature)  
 Relinquished by: (Signature)

Date: **8/1/19**  
 Time: **1145**

Received by: (Signature)  
 Received by: (Signature)  
 Received for lab by: (Signature)  


Trip Blank Received: Yes/No  
 HCL/MeoH TBR  
 Temp: **ASDF °C**  
**3.9 ± 0 = 3.9**  
 Bottles Received: **6**

**RAD SCREEN: <0.5 mR/hr**  
 If preservation required by Login: Date/Time  
 Hold:  
 Condition:  
 NCI  OK  
**8/2/19**



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/07/2019 13:27	<a href="#">WG1324526</a>
(S) a,a,a-Trifluorotoluene(FID)	112			78.0-120		08/07/2019 13:27	<a href="#">WG1324526</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.59	U J	1.05	25.0	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Acrylonitrile	U		0.873	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Benzene	U		0.0896	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Bromobenzene	U		0.133	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Bromodichloromethane	U		0.0800	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Bromochloromethane	U		0.145	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Bromoform	U		0.186	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Bromomethane	U		0.157	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
n-Butylbenzene	U		0.143	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
sec-Butylbenzene	U		0.134	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
tert-Butylbenzene	U		0.183	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Carbon disulfide	U		0.101	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Carbon tetrachloride	U		0.159	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Chlorobenzene	U		0.140	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Chlorodibromomethane	U		0.128	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Chloroethane	U		0.141	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Chloroform	U		0.0860	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Chloromethane	U		0.153	1.25	1	08/06/2019 02:51	<a href="#">WG1323449</a>
2-Chlorotoluene	U		0.111	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
4-Chlorotoluene	U		0.0972	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2-Dibromoethane	U		0.193	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Dibromomethane	U		0.117	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Dichlorodifluoromethane	U		0.127	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1-Dichloroethane	0.495	J J	0.114	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2-Dichloroethane	U		0.108	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1-Dichloroethene	U		0.188	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
cis-1,2-Dichloroethene	0.489	J J	0.0933	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2-Dichloropropane	U		0.190	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1-Dichloropropene	U		0.128	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,3-Dichloropropane	U		0.147	1.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
2,2-Dichloropropane	U		0.0929	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Di-isopropyl ether	U		0.0924	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Ethylbenzene	U		0.158	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
2-Hexanone	U		0.757	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
n-Hexane	U		0.305	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Iodomethane	U		0.377	10.0	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Isopropylbenzene	U		0.126	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
p-Isopropyltoluene	U		0.138	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
2-Butanone (MEK)	U		1.28	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>

JC 8/12/19



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Methyl tert-butyl ether	U		0.102	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Naphthalene	U		0.174	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
n-Propylbenzene	U		0.162	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Styrene	U		0.117	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1,2-Trichlorotrifluoroethane	0.542		0.164	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Tetrachloroethene	U		0.199	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Toluene	U		0.412	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Trichloroethene	U		0.153	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Vinyl acetate	U		0.645	5.00	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Vinyl chloride	U		0.118	0.500	1	08/06/2019 02:51	<a href="#">WG1323449</a>
Xylenes, Total	U		0.316	1.50	1	08/06/2019 02:51	<a href="#">WG1323449</a>
(S) Toluene-d8	105			80.0-120		08/06/2019 02:51	<a href="#">WG1323449</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/06/2019 02:51	<a href="#">WG1323449</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/06/2019 02:51	<a href="#">WG1323449</a>

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

JC 8/12/19





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/08/2019 19:02	<a href="#">WG1325194</a>
(S) a,a,a-Trifluorotoluene(FID)	96.8			78.0-120		08/08/2019 19:02	<a href="#">WG1325194</a>

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.24	J	1.05	25.0	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Acrylonitrile	U		0.873	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Benzene	U		0.0896	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Bromobenzene	U		0.133	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Bromodichloromethane	U		0.0800	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Bromochloromethane	U		0.145	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Bromoform	U		0.186	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Bromomethane	U		0.157	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
n-Butylbenzene	U		0.143	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
sec-Butylbenzene	U		0.134	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
tert-Butylbenzene	U		0.183	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Carbon disulfide	U		0.101	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Carbon tetrachloride	U		0.159	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Chlorobenzene	U		0.140	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Chlorodibromomethane	U		0.128	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Chloroethane	U		0.141	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Chloroform	U		0.0860	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Chloromethane	U		0.153	1.25	1	08/05/2019 22:49	<a href="#">WG1323449</a>
2-Chlorotoluene	U		0.111	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
4-Chlorotoluene	U		0.0972	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2-Dibromoethane	U		0.193	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Dibromomethane	U		0.117	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Dichlorodifluoromethane	U		0.127	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1-Dichloroethane	U		0.114	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2-Dichloroethane	U		0.108	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1-Dichloroethene	U		0.188	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2-Dichloropropane	U		0.190	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1-Dichloropropene	U		0.128	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,3-Dichloropropane	U		0.147	1.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
2,2-Dichloropropane	U		0.0929	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Di-isopropyl ether	U		0.0924	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Ethylbenzene	U		0.158	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Hexachloro-1,3-butadiene	0.164	B J	0.157	1.00	1	08/05/2019 22:49	<a href="#">WG1323449</a> JC 8/12/19
2-Hexanone	U		0.757	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
n-Hexane	U		0.305	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Iodomethane	U		0.377	10.0	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Isopropylbenzene	U		0.126	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
p-Isopropyltoluene	U		0.138	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
2-Butanone (MEK)	U		1.28	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>



Collected date/time: 08/01/19 11:07

L1124853

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Methyl tert-butyl ether	U		0.102	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Naphthalene	U		0.174	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
n-Propylbenzene	U		0.162	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Styrene	U		0.117	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Tetrachloroethene	U		0.199	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Toluene	U		0.412	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Trichloroethene	U		0.153	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Vinyl acetate	U		0.645	5.00	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Vinyl chloride	U		0.118	0.500	1	08/05/2019 22:49	<a href="#">WG1323449</a>
Xylenes, Total	U		0.316	1.50	1	08/05/2019 22:49	<a href="#">WG1323449</a>
(S) Toluene-d8	106			80.0-120		08/05/2019 22:49	<a href="#">WG1323449</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/05/2019 22:49	<a href="#">WG1323449</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/05/2019 22:49	<a href="#">WG1323449</a>

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

JC 8/12/19